OREGON STATE ENGINEER GROUND WATER REPORT NO. 13

STATE OF OREGON

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STATE ENGINEER

RECORDS OF WELLS, WATER LEVELS, AND CHEMICAL QUALITY OF WATER IN THE LOWER SANTIAM RIVER BASIN, MIDDLE WILLAMETTE VALLEY, OREGON

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

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FOREWARD

An investigation of the ground water resources of the Willamette Valley was begun in 1960 as a cooperative program between the U. S. Geological Survey and Oregon State Engineer. The purpose of the investigation is to obtain a better understanding of the occurrence, movement, quality, and availability of ground water in the valley. It is intended that the basic data contained in this report be used in the optimum development of Oregon's ground water resources.

The ground water studies of the northern part of the Willamette Valley was sub-divided into three study areas -- The French Prairie Mission Bottom, Salem-Molalla Slope, and the Eola-Amity Hills Areas. Basic data collected in these areas has been published in the State Engineer's Ground Water Reports numbered 1, 2, and 7. The study of the middle portion of the Willamette Valley continues. This report contains records of wells, water levels, and chemical quality of water in the lower Santiam River Basin, Mid-Willamette Valley, Oregon. Interpretive reports describing ground water conditions and the general availability of ground water in the area will be published at a later date by the U. S. Geological Survey.

CONTENTS

	Page
Introduction	1
Purpose of this report and relation to other studies	1
Location and description of the area	2
Occurrence and availability of ground water	2
Acknowledgments	4
Explanation of data	4
Well-numbering system	4
Water-level fluctuations	6
Records of wells	6
Drillers' logs of wells	9
Chemical analyses of water	9
References	10

ILLUSTRATIONS

/Plate is in pocket/

Plate 1. Map showing locations of representative wells.

	Page
Figure 1. Map showing boundaries and general features of the lower Santiam River basin	3
2. Diagram showing well-numbering system	5
3. Hydrograph of well 10/4W-12F1 for 1928-July 1952 and of well 10/4W-12F2 for September 1952-67	7
4. Hydrographs of 10 selected wells in the lower Santiam River basin and monthly precipitation at Albany for 1962-67	8

TABLES

Page

Table 1. Records of representative wells in the lower Santiam River basin, Oregon---------- 11

2. Drillers' logs of representative wells---------- 77

3. Chemical analyses of water in the lower Santiam River basin, Oregon---------- 181

4. Spectrographic analyses of ground water in the lower Santiam River basin, Oregon---------- 186

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By D. C. Helm

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INTRODUCTION

Purpose of This Report and Relation to Other Studies

The lower Santiam River basin is one of the most productive and intensively irrigated agricultural areas in Oregon. Although the total annual precipitation is moderately high, during the growing season it is insufficient for many crops. Not only is irrigation required, but since the area under cultivation increases each year, the demand for water grows. An expanding urban and suburban population and industry puts added strain on the water resources of the basin.

This increasing use of water requires a better understanding of the occurrence, availability, and quality of the water resources of the area. To meet this need, the U.S. Geological Survey is conducting a comprehensive hydrologic study in cooperation with the office of the Oregon State Engineer. Basic to this investigation is the collection and compilation of data on existing wells in the lower Santiam River basin. The water resources of the area can be effectively evaluated when the basic data included in this report are integrated with data on streamflow, geology, and climatology.

The purpose of this report is to make available, in advance of the final interpretive report, basic records of representative existing wells, water levels, and chemical quality of water in the lower Santiam River basin. The basic-data report will continue to be useful because it contains much data that will be omitted from the final interpretive report.

This report was prepared by the U.S. Geological Survey under the general supervision of Stanley F. Kapustka, District Chief, for 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 State Engineer.

Several previous ground-water studies are related to the lower Santiam River basin project. The area was included in a reconnaissance study of ground-water resources of the Willamette Valley by A. M. 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 Willamette Valley. Among those areas are the French Prairie area (Price, 1961), a few miles northwest of the Santiam Basin; the Molalla-Salem Slope area (Hampton, 1963), directly north of the northeastern boundary of the present study area; and the Eola-Amity Hills area (Price and Johnson, 1965), adjacent to and west of the French Prairie area. Hydrographs of representative wells in Oregon appear in annual reports prepared by the State Engineer's office (Sceva and DeBow, 1964, 1965, 1966). Five of these wells are in the lower Santiam River basin. Hydrographs of 3 of these are among the 12 included in figures 3 and 4 in this report.

Location and Description of the Area

The lower Santiam River basin lies in the middle Willamette Valley between the Willamette River and the higher foothills of the Cascade Range to the east. It is mostly south of the Salem Hills and north of the drainage divide between Oak Creek and the Calapooia River. The area consists of roughly 600 square miles between lat 44°20' N. to lat 44°46' N. and long 122°38' W. to long 123°07' W. Its boundaries and general features are shown in figure 1.

Foothills of the Cascade Range constitute the eastern one-third of the study area. Steep-sided, narrow valleys; flat-topped ridges; and gentle, rolling hills characterize this region.

Broad alluvial fans of the North and South Santiam Rivers form low terraces in the western two-thirds of the area. These terraced plains are studded by a few forested buttes. The alluvial fan of the North Santiam River near Stayton is separated from the major part of the plains by a southern extension of the Salem Hills.

Occurrence and Availability of Ground Water

Highest yielding wells in the Santiam River basin are in shallow alluvial (gravel and sand) aquifers near the channels of the North Santiam River below Stayton, the South Santiam River below Lebanon, and the main stem of the Santiam River. Many of these wells yield several hundred gallons per minute and some yield more than a thousand gallons per minute. Wells in the lacustrine and older alluvial (gravel, sand, and clay) aquifers that underlie low, flat terraces (1) between Lebanon and Albany, (2) west of Stayton, and (3) south and east of Sidney have moderate (a few tens of gallons per minute) to high (a few hundred

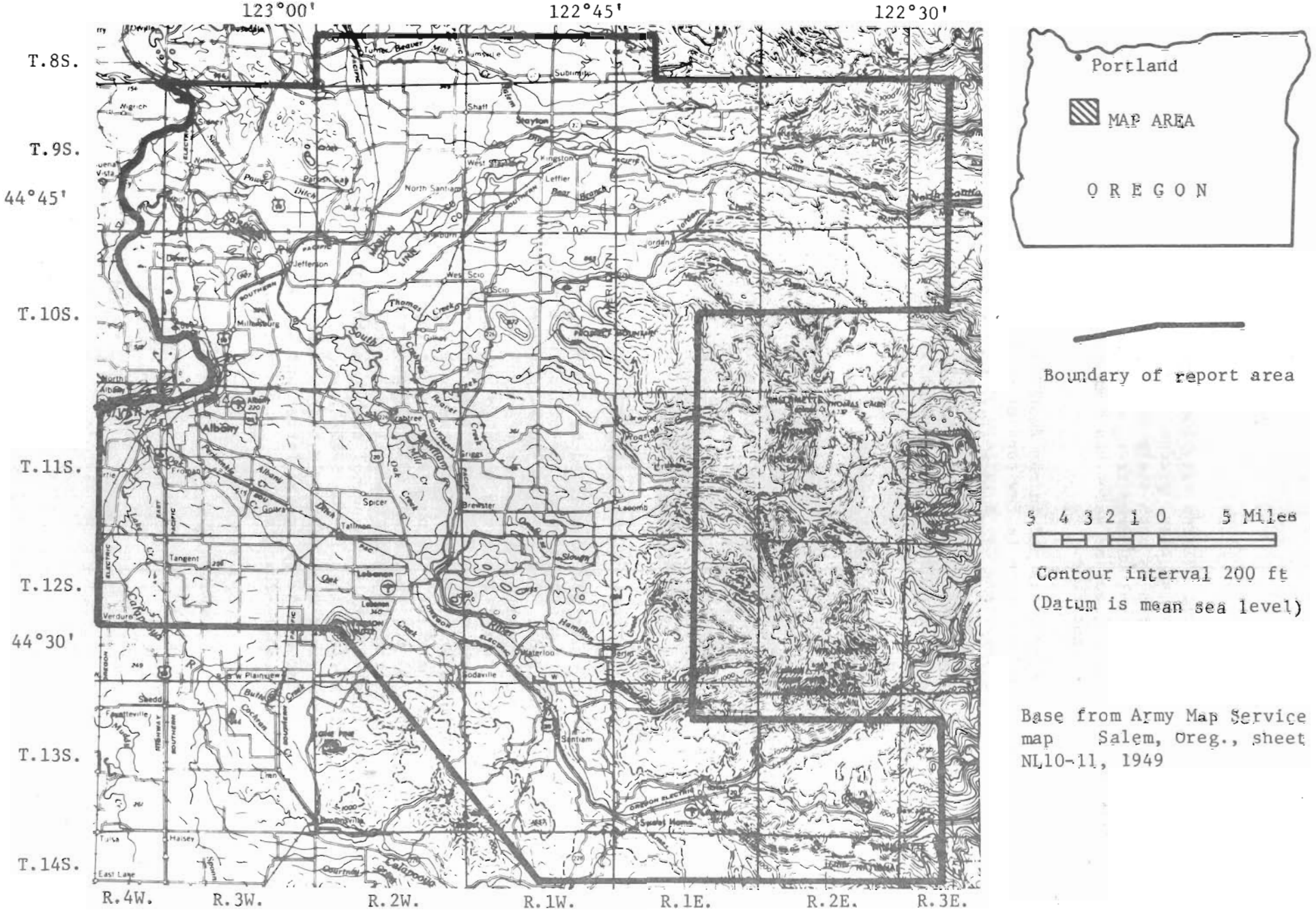

Figure 1.--Map showing boundaries and general features of the lower Santiam River basin.

gallons per minute) yields. Yields vary locally; lowest yields occur where fine materials, such as clay, predominate. The valley fill is underlain at shallow depths by both shale and sandstone and by lava flows. At depths of several hundred feet, where there is little circulation of ground water, saline water has been pumped locally from the marine shale and sandstone.

Wells in the Salem Hills and in the foothills of the Cascade Range generally yield moderate (a few tens of gallons per minute) to small quantities of water and tap a variety of geologic units, most of volcanic origin. Locally, marine rocks yield small quantities of water. The highest yielding wells (a few hundred gallons per minute) in the hill and ridge areas draw water from rubbly zones between basaltic lava flows.

Acknowledgments

Thanks are extended to well owners and operators whose cooperation aided in the collection of water-level data and the compilation of this report. Special thanks are given to the many drillers who furnished valuable records of wells and drillers' logs as well as general information about the water-yielding characteristics of rocks in the area. The helpful cooperation of all is appreciated and acknowledged.

EXPLANATION OF DATA

Well-Numbering System

In this report, wells are identified by a numbering system that indicates their location according to the official rectangular subdivision of public lands. For example, 10/1-15G1 identifies a particular well. The two numbers that precede the hyphen and are separated by a slash indicate respectively the township and range (T. 10 S., R. 1 E.) south and east of the Willamette base line and meridian. For wells in townships west of the meridian, the well number includes a "W" after the range number. The numeral after the hyphen designates the section (sec. 15) and the letter (G) indicates the 40-acre subdivision of that section in which the well is located, as shown in figure 2. The final digit is the serial number of that particular well. Thus, well 10/1-15G1 is in the SW¼NE¼ sec. 15, T. 10 S., R. 1 E., and is the first well listed in the 40-acre tract. It is identified on the map (plate 1) by the letter and serial number that follow the section number--that is, G1.

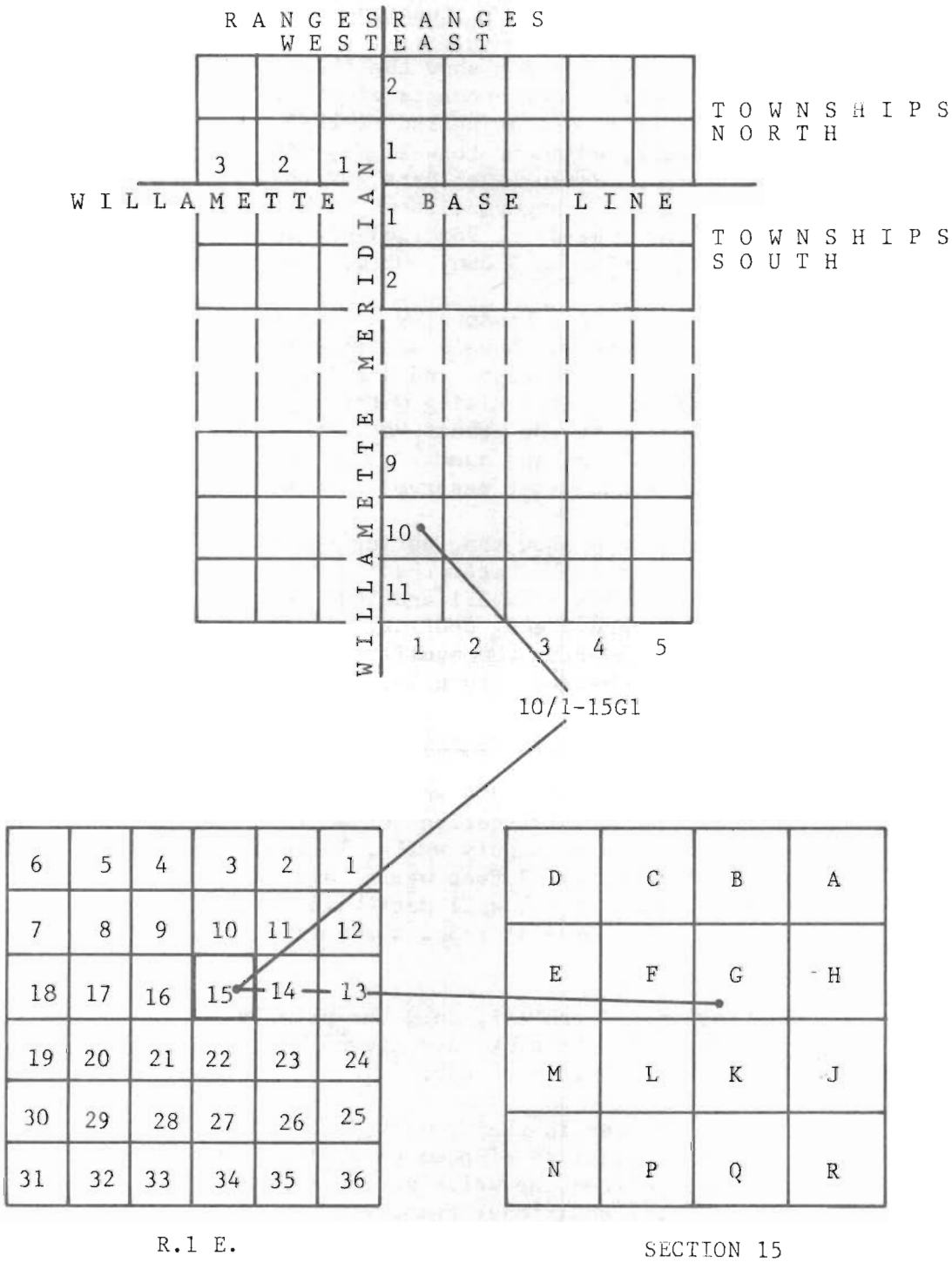

Figure 2.--Diagram showing well-numbering system.

Water-Level Fluctuations

Hydrographs in figures 3 and 4 show the fluctuations of water levels in 12 selected wells. Measurements of water levels in well 10/4W-12F1 were made over a 24-year period (1928-52). Similar measurements for well 10/4W-12F2, adjacent to well F1, were recorded over a 15-year period (1952-67). Water-level data for the two wells are presented together in figure 3. Figure 4 shows both the hydrographs of 10 selected wells (7 for 1962-67, 1 for 1963-67, and 2 for 1964-67) and the monthly precipitation at Albany, Oreg., for 1962-67.

Water levels rise and fall seasonally during the year, as shown on the hydrographs in figure 4. Levels are highest during the winter and spring when rainfall is greatest, and are lowest during the summer and fall when rainfall is least. Rising water levels show that heavy winter rainfall adds water to the ground-water reservoirs. Falling water levels during the spring and summer indicate that more water is being discharged from ground-water reservoirs than is being added.

Hydrographs on figure 4 show that during the winter months the alluvial aquifers regain all the water that is lost during the summer, whereas water levels in wells 9/1W-2R1 and 14Q1, which tap basalt aquifers, show a general and steady decline. This decline indicates that water is being removed from the aquifers at a faster rate than the aquifers are being recharged naturally.

Records of Wells

Table 1 contains records of 1,204 wells, whose locations are shown on plate 1. Included are 919 irrigation wells, 128 domestic wells, 53 industrial wells, 19 public-supply wells, 10 institutional wells, 4 stock wells, 54 unused wells, 7 test wells, and 10 wells with unreported or other use. Most of the well data have been obtained from well drillers' records and owners' reports submitted to the office of the Oregon State Engineer.

In the "use" column of table 1, only the principal uses of the well water as indicated by the owner are given, although the water from many wells may have additional uses.

Most water temperatures in the "remarks" column were reported by well drillers or representatives of pump companies. These temperatures were presumably measured when the wells were completed or were being tested. Table 3 contains additional temperature data, measured when samples were collected for chemical analysis.

For records of wells in T. 8 S., and Rs. 1-3 W., see Hampton (1963).

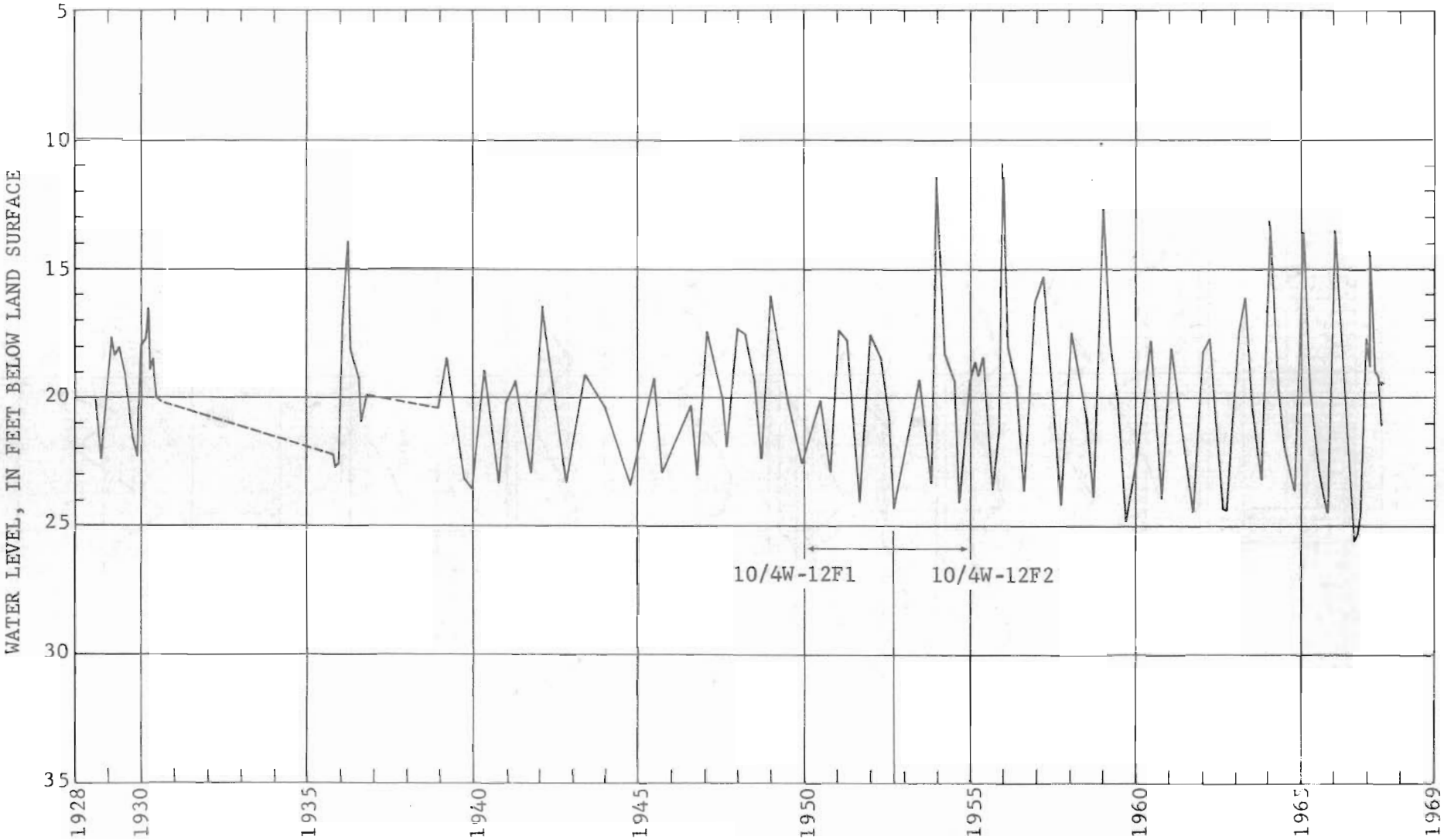

Figure 3.--Hydrograph of well 10/4W-12F1 for 1928-July 1952 and of well 10/4W-12F2 for September 1952-67.

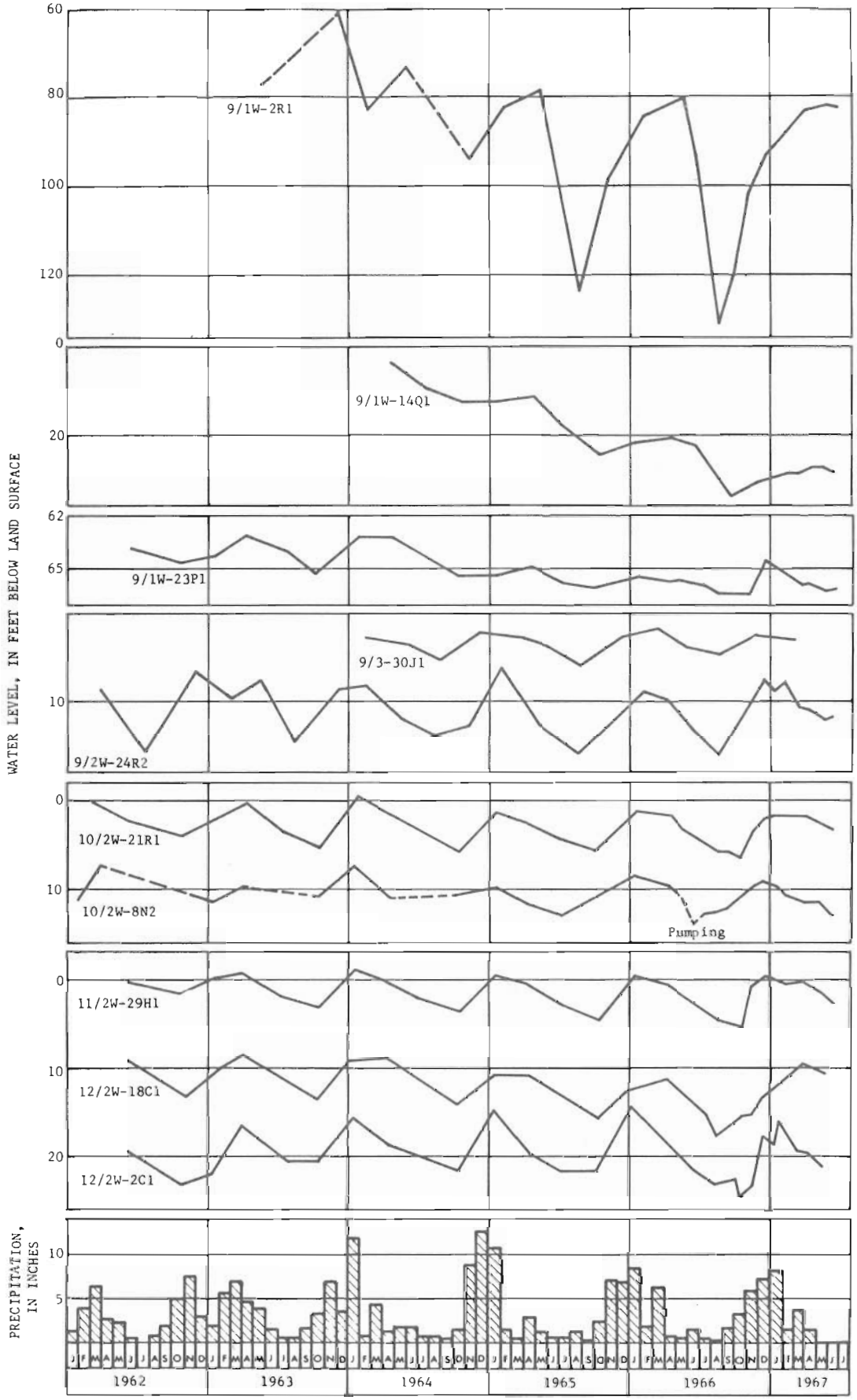

Figure 4.--Hydrographs of 10 selected wells in the lower Santiam River basin and monthly precipitation at Albany for 1962-67.

Drillers' Logs of Wells

Logs of materials penetrated during the construction of 349 representative wells in the lower Santiam River basin are included in table 2. Most of the logs were obtained from drillers' reports, although some are from owners' well-registration forms submitted to the Oregon State Engineer.

Description of the lithologic units 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 basalt 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. Any interpretation by the writer has been placed in parentheses after the driller's description.

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

For logs of wells in T. 8 S., and Rs. 1-3 W., see Hampton (1963).

Chemical Analyses of Water

Chemical analyses of water in the lower Santiam River basin are given in tables 3 and 4. Samples were collected and analyzed from 49 wells and 1 spring; samples from 5 rivers were also analyzed.

Table 3 shows the concentration of minerals most commonly found in natural waters. The dissolved minerals are reported in parts per million (ppm) by weight. For example, one part per million is a unit weight of a mineral dissolved in a million unit weights of water.

Spectrographic analyses of ground water from seven wells are given in table 4. Results are reported in micrograms per liter, which is a weight-per-volume measure. To convert this to a weight-per-weight measure comparable to the parts per million used in table 3, one can assume that 1 liter of the water weighs 1 kilogram. The mineral constituents as given in table 4 are therefore equivalent to parts per billion, or one-thousandth of a part per million.

REFERENCES

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

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

Sceva, J. E., and DeBow, Robert, 1964, Ground-water levels, 1963: Oregon Ground Water Rept. 4, 71 p., 1 fig.

_____1965, Ground-water levels, 1964: Oregon Ground Water Rept. 5, 109 p., 1 fig.

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

Table 1.--Records of representative wells in the lower Santiam River basin, Oregon

Well number: See p. 4 for description of well-numbering system.
Type of well: Bd, bored; Dg, dug; Dr, drilled; Dn, driven.
Year completed: p, prior to.
Finish: B, open bottom (casing unperforated); G, gravel packed; P, casing perforated. Depth interval of perforations given in feet below land surface at well.
Water-bearing zone(s):
Depth to top: Indicates top of saturated zone as reported by driller for most unconfined aquifers and top of water-producing interval(s) for confined aquifers.
Thickness: <, less than; >, more than.
Altitude: Altitude of land surface at well, in feet above mean sea level, interpolated from topographic maps.
Water level: Depth to water given in feet and decimal fractions were measured; those given in whole feet were reported by well owner, driller, or pump company.
Type of pump: B, bucket and rope; C, centrifugal; H, hand; J, jet; N, none; S, submersible; T, turbine.
Well performance: Yield, in gallons per minute, and drawdown, in feet below nondischarging water level, reported by owner, operator, driller, or pump company. Bailed yield is indicated by "b," flowing yield by "f," owner's estimated yield by "e."
Use: D, domestic; Ind, industrial; Inst, institutional; Irr, irrigation; PS, public supply; S, stock; T, test; U, unused.
Acres irrigated: Information was supplied in part by farmers and extracted from water-right records held by the Oregon State Engineer, Salem, Oreg.; total acreage irrigated by a group of wells is listed opposite one of those wells.
Remarks: CA, chemical analysis in table 3; FC, well located in field by U.S. Geological Survey personnel; H, hydrograph included in this report; Lo, driller's log of well available at the offices of the Oregon State Engineer, Salem, Oreg., and the U.S. Geological Survey, Portland, Oreg.; Li, driller's log of well included in table 2; Pp, pumped or bailed for the indicated number of hours when drawdown was measured; Pt, signifies wells that are pumped together; Temp, temperature of water in degrees Fahrenheit; SpA, spectrographic analysis in table 4; WL, water-level measurements available at the offices of the Oregon State Engineer, Salem, Oreg., and the U.S. Geological Survey, Portland, Oreg. Remarks on the adequacy and dependability of water supply, general quality of water, and materials penetrated were 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		Type of pump and hp	Well performance		Use	Acres irrigated	Remarks
								Depth to top (feet)	Thickness (feet)	Character of material		Feet below datum	Date		Yield (gpm)	Drawdown (feet)			
8/1W-33N1	Santiam Golf Club	Dr	1965	330	10 8	100 235	P, 18-80 P, 102-165	36 76 220	40 144 110	Gravel Claystone Basalt	410	11	10- 6-65	--	205	119	Irr	--	Li, FC, Pp 3 hr.
9/1W-1E1	Etzel Bros.	Dr	1958	259	8	--	B	--	--	do.	510	26½	2-24-58	C, 15 T, 25	330	108	Irr	--	Li, FC, WL, Pp 1 hr, Temp 51.
1R1	Chris Cremer	Dr	1956	150	8	40	P, 20-40	38	<1	Top of basalt(?)	670	28	--	--	7½b	8	D	--	Li.
2C1	Fred Hottinger	Dr	1962	300	10	80	B	--	--	Basalt	495	27½	10- 2-62	S, 7½	160	247	Irr, D	--	Li, FC, Pp 3 hr.
2F1	A. Hassler	Dr	1956	147	8	16	B	135	12	Crevices in andesite	470	½	12-13-56	C, 20	550	4½	Irr	30	Li, FC, Pp 1½ hr, Temp 54.
2R1	Etzel Bros.	Dr	1962	289½	10	69	B	77	212	Basalt	525	77	4- 4-62	T, --	400	140	Irr	--	Li, FC, CA, WL, Pp 2 hr, Temp 57, H.
4D1	Anton Mack	Dr	1964	262	10 8	100 196	P, --	260	<1	do.	410	0	9-18-64	C, 10	75f	--	Irr	16	Li, FC.
4N1	Northwest Natural Gas Co.	Dr	1963	362	10	20	B	20	10	Boulders and sand	420	--	--	N	--	--	--	--	Li, FC; well used to bury electric cables.

Table 1.--Records of representative wells in the lower Santiam River basin, Oregon--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		Type of pump and hp	Well performance		Use	Acres irrigated	Remarks
								Depth to top (feet)	Thickness (feet)	Character of material		Feet below datum	Date		Yield (gpm)	Drawdown (feet)			
9/2W-4P1	Paul Dozler	Dg	1948	12	168	--	Sump	--	--	--	425	2	--	C, 15	400e	--	Irr	62	
5R1	Richard Foltz	Dg	1954	9	192	--	Trench	--	--	Gravel	418	1.5	--	--, 32	320	6	Irr	28	
6L1	C. A. Varnes	Dr	1950	128	6	128	B	--	--	--	370	50	--	J, 3/4	45	None	Irr	40	
7A1	G. H. M. Brewer	Dg	p1928	16	1½	16	--	4	12	Boulders	396	4	8-31-28	N	--	--	U	--	Lo, partial WL.
9K1	J. J. Mertz	Dg	1952	15	240	--	Trench	--	--	--	430	--	--	--	180e	--	Irr	10	
9P1	Ed Lewin	Dr	1961	38	8	38	P, 27-37	6	32	Sand and gravel	430	6	12-23-61	J, 3	50	5	Irr	--	Lo, FC, Pp 1 hr.
9P2	Mike Adams	Dr	1965	40	6	40	B	38	2	Gravel	430	15	5- 8-65	--	35b	6	Shop	--	Li, FC, Pp 1 hr, Temp 53; water in top 20 ft polluted.
9R1	Carl Boedigheimer	Dr	1950	34	8	34	P, --	--	--	do.	435	8	2-14-61	C, 7½	130	8	Irr	--	FC, Pp 8 hr.
10C1	Regis High School	Dr	1964	250	10	92	P, 45-70	45	25	Gravel, cobbles, and boulders	447	9	8-28-64	--	78	83	Irr	--	Li, FC; no increase in yield below 70 ft.
10M1	Stayton Canning Co. Coop.	Dr	1937	96	10	96	P, 40-96	--	--	--	440	--	--	T, 10	150	0	Ind	--	
10M2	do.	Dr	1945	120	12	120	P, 40-120	--	--	--	440	--	--	T, 25	250	0	Ind	--	
10M3	do.	Dr	1946	101	12	101	P, 40-101	--	--	--	440	--	--	T, 40	250e	--	Ind	--	
10M4	do.	Dr	1954	485	12	319	P, 40-319	--	--	--	440	--	--	T, 40	450e	--	Ind	--	Li.
10P1	L. A. Smith	Dr	1956	19	6	19	P, 13-18	12	7	Sand and gravel	445	6	7- 9-56	--	35b	0	D	--	Lo, Temp 55.
10Q1	Frankies Wash & Dry	Dr	1964	52	6	52	P, 30-50	30 50	10 2	Gravel and sand do.	445	5 8	1-21-64 7-28-64	--	100b	5	Ind	--	Li, FC, Pp 1 hr.
11C1	Walter Miller	Dr	1965	275	6	95	B	155 166 257	5 6 18	"Rock, honeycombed" do. Andesite, hard, "broken"	500	63	3- 3-65	--	80	160	Irr	--	Li, FC, Pp 2 hr.
11L1	Richard Schotthoefer	Dr	1966	50	8	50	P, 20-50	20	30	Gravel, silt, and clay	470	15	6-13-66	--	20 40b	5 20	Irr	--	Li, Pp 1 hr for each test.

Table 1.--Records of representative wells in the lower Santiam River basin, Oregon--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		Type of pump and hp	Well performance		Use	Acres irrigated	Remarks
								Depth to top (feet)	Thickness (feet)	Character of material		Feet below datum	Date		Yield (gpm)	Drawdown (feet)			
9/1W-11M1	C. E. Neitling	Dg	1952	15	144	--	Infiltration trench	8	7	Sand and gravel	460	8	--	--, 7½	130	All	Irr	6	Lo, Pp 4 hr; takes 48 hr to recover.
11P1	Olive A. Samples	Dr	1952	20	6	20	--	14	6	Sand	455	12	--	--, 1½	40e	--	Irr	8.1	Lo.
12B1	William Ripp	Dr	1963	460	6	343	P, 40-53	51 368 408 452	1 2 < 1 < 1	"Rock," brown, seamy Basalt, vesicular do. Bottom of basalt	690	91 226	8-22-55 8- 1-63	S, 2	35	127	D, Irr	--	Li, FC, WL, Pp 8 hr.
13C1	Salem City Water Dept.	--	--	8	--	--	Infiltration gallery	--	--	--	466	--	--	--	5,555e	--	PS	--	3,700 ft of 30-in. perforated pipe and 460 ft of 18-in. perforated pipe at 7-ft depth.
13D1	do.	Dr	1939	60	16	60	--	16 26	3 2	Gravel do.	466	12	--	T, 15	1,775e	--	PS	--	Li, CA.
13D2	do.	Dr	1940	60	14	--	--	--	--	--	466	12	--	T, 10	1,550e	--	PS	--	CA.
13D3	do.	Dr	1940	60	12	--	--	--	--	--	466	12	--	T, 10	1,100e	--	PS	--	CA.
14M1	W. E. Blum	Dr	1959	26	6	26	P, 11-26	16	10	Gravel	450	14	8-20-59	--	36	--	Irr	25	Li, FC.
14Q1	John Fery	Dr	1964	326	10	19½	B	57	269	Basalt flows	550	3	3-19-64	T, --	600	62	Irr	--	Li, FC, CA, WL, Pp 3 hr, H.
15A1	Town of Stayton	Dg	--	23	60	--	Infiltration trench	--	--	Sand and gravel	440	6	11-20-56	T, 75	3,600	4	PS	--	Pp 120 hr; 100 ft of 24-in. infiltration line.
15B1	do.	Dg	1955	25	48	--	do.	--	--	--	440	5	--	T, 45	1,000	18	PS	--	CA; 60 ft of infiltration line at 18-ft depth.
15F1	North Santiam Sand & Gravel	Dr	1963	27	6	27	P, 20-27	20	7	Gravel and boulders	435	8	4-20-63	T, 2	40b	6	Ind	--	Lo, FC, Pp 1 hr.
15F2	do.	Dr	1964	36½	6	36½	P, 24-36½	17	19½	do.	435	8 2/3	3-10-64	T, 3	60	3	Ind	--	Li, FC, Pp 7 hr.
15J1	Dewitt Tiger	Dr	1950	22	6	--	--	--	--	--	430	--	--	C, 7½	--	--	Irr	27.5	Lo.
15J2	John Fery	Dr	1951	21	10	21	P, 10-20	10	11	Gravel	430	10	--	C, 10	600e	8	Irr	22	
15J3	Dewitt Tiger	Dg	1954	15	48	--	--	10	5	Sand and gravel	430	10	--	C, 4	100e	0	Irr	27.5	Lo.
15K1	do.	Dr	1959	18	8	18	P, 7-18	9	6½	do.	430	9	9-25-59	C, 7½	120e	--	Irr	--	Lo, FC.

Table 1.--Records of representative wells in the lower Santiam River basin, Oregon--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		Type of pump and hp	Well performance		Use	Acres irrigated	Remarks
								Depth to top (feet)	Thickness (feet)	Character of material		Feet below datum	Date		Yield (gpm)	Drawdown (feet)			
9/1W-15K2	Dewitt Tiger	Dr	1962	22	8	22	P, 12-22	11	10	Sand and gravel	430	11 13	6-12-66 7-19-66	C, 15	400	5	Irr	12	Lo, FC, Pp 1 hr.
15P1	Edd Hobson	Dr	1954	18	8	18	P, 6-18	--	--	--	425	12	--	C, 10	300	15	Irr	34	
15P2	do.	Dr	1954	18	8	18	P, 6-18	--	--	--	425	12	--	C, 10	300	15	Irr	34	
15Q1	Carl Bethel	Dr	1955	19	10	19	--	16	3	Gravel and sand	427	16	--	C, 15	300	3	Irr	15	Lo.
16E1	F. J. Fery	Dr	1951	19	8	19	B	--	--	Sand and gravel	415	9	--	C, 7½	160e	--	Irr	24	
16G1	City of Stayton	Dr	1963	30	6	30	P, 23-30	25	5	Gravel	420	16	6- 5-63	--	25	0	PS	--	Li, FC.
17B1	George Fery	Dr	1960	40	8	38	P, 25-37	25	15	Gravel and boulders	415	8	4- 1-60	--	30	36	Irr	--	Lo, Pp 1/2 hr, Temp 54.
17E1	C. S. Schriner	Dr	1965	50	6	50	B	42 46	4 4	Gravel, cemented Gravel with silt	405	14	8- 9-65	--	40b	20	D	--	Li, FC, Pp 1 hr.
17H1	George Fery	Dg	1950	12	216	--	Infiltration trench	--	--	--	410	--	--	C, 10	400	5	Irr	37	
17J1	do.	Dg	1951	12	120	--	Infiltration trench	--	--	--	410	--	--	C, 10	195e	--	Irr	51	
18D1	B. O. Cole	Dg	1955	5	120	--	Infiltration trench	--	--	--	385	3	--	C, 5	40+e	--	Irr	4	
18K1	Michael Mack	Dr	1954	40	8	40	--	--	--	--	390	9	--	C, 10	300	10	Irr	9.3	
18M1	Leon Hilton	Dr	1965	25	10 8	22 25	P, 10-22	10	12	Gravel and sand	385	7	6-29-65	C, 7½	180	10	Irr	10.7	Lo, FC.
18Q1	F. W. Dickman	Dg	1947	17	120	--	Trench	--	--	Sand and gravel	380	6	--	C, 30	700	1	Irr	147	Wells 18Q1 and 19B1 Pt.
18R1	Raymond Schrock	Dr	1961	22½	8	22	P, 11-22	11 16	5 6	Sand, gravel, and silt Sand, gravel, and clay	385	10	10-17-61	--	100	3½	Irr	--	Li, FC, Pp 2 hr.
19B1	F. W. Dickman	Dr	1948	25	8	25	P, 7-25	--	--	--	380	9	--	C, 15	400	6	Irr	--	Wells 18Q1 and 19B1 Pt.
19E1	I. R. Hammer	Dr	1954	20	8	20	P, 11-20	11	9	Gravel	370	6-8	--	C, --	180	0	Irr	10	Lo.
19F1	Schieman Bros.	Dr	1946	25	8	25	P, 19-25	19	6	do.	375	10	--	C, 15	260+e	1	Irr	--	Lo.

Table 1.--Records of representative wells in the lower Santiam River basin, Oregon--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		Type of pump and hp	Well performance		Use	Acres irrigated	Remarks
								Depth to top (feet)	Thickness (feet)	Character of material		Feet below datum	Date		Yield (gpm)	Drawdown (feet)			
9/1W-19F2	John Freeman	Dr	1948	27	10	27	--	24	3	Gravel	375	24	--	C, 15	128+e	0	Irr	5.8	Lo.
19G1	Evelyn E. Hatch	Dr	1948	25	8	25	P, 13-25	--	--	--	375	15	--	C, 10	200	5	Irr	6	Goes dry when neighbors pump.
19H1	do.	Dg	1956	12	8	25	Horizontal pipe	--	--	Gravel	375	2	--	C, 10	200	1½	Irr	15	40 ft of 16-in. horizontal pipe.
19M1	Anna E. Stanley	Dr	1944	22½	8	22½	P, 12-22½	--	--	--	370	6 8	Spring Fall	--, 15	175e	--	Irr	40	
19M2	R. A. Hammer	Dr	1951	19	8	19	P, 9-19	8 13½	4 5½	Sand and gravel Gravel with sand	365	8	--	C, 15	450 550	3 12	Irr	28.6	Li.
19N1	Alfred Hofmann	Dr	1941	24	8	24	P, 14-24	14	10	Gravel	365	12	--	C, 10	200	8	Irr	20	
19N2	E. D. Glidewell	Dr	1950	25	8	25	P, 15-25	17	8	do.	370	12	--	C, 15	350	5	Irr	24.7	Lo.
19N3	do.	Dr	1959	23	8	23	P, 12-23	12	9	Sand, gravel, and boulders	370	17	--	--	200	½	Irr	--	Li, Pp 1 hr.
19P1	Delbert Sandner	Dr	p 1930	24	8	24	--	5	19	Gravel	370	12-18	--	C, 15	400e	2-8	Irr	41.3	Lo; wells 19P1 and P2 Pt.
19P2	do.	Dr	1950	21	10	20	P, 15-20	5	16	do.	370	5-9	--	C, 25	700	9	Irr	--	Lo; wells 19P1 and P2 Pt.
20G1	D. B. Gray	Dr	1947	31.5	10	--	--	--	--	--	380	8	--	--, 15	320e	--	Irr	36	
20H1	do.	Dr	1948	30	8	--	--	--	--	--	385	9	--	--, 15	260e	--	Irr	14	
20H2	do.	Dr	1955	47	10	--	--	--	--	Sand and gravel	380	9	--	--, 15	240e	--	Irr	14.6	Li.
21J1	Bud Cook	Dr	1965	62	6	62	P, 46-62	38	24	Gravel, medium	450	37	9- 8-65	J, 1	40b	8	Irr	--	Li, FC, Pp 1 hr.
23P1	Charles Hecht	Dr	1951	93	10	15	B	68.5	25	"Rock"	550	68.5	6-15-66	T, 1/2	30	30	Irr	--	Lo, FC, WL, H.
24B1	E. Phillippi	Dr	1964	107	8	18	B	91	16	Claystone	680	47	5-14-64	--	36b	30	D	--	Lo, Pp 1 hr.
24B2	Jim Adams	Dr	1966	248	6	19	B	70 110 200	<1 <1 <1	Basalt	685	86	5- 9-66	S, 1	7½	150	D	--	Li, Pp 1 hr.
26D1	Charles Hecht	Dr	1949	37	6	20	B	23	14	"Rock"	485	23	--	N	30	20	U	--	Lo; originally irrigated 10 acres.

Table 1.--Records of representative wells in the lower Santiam River basin, Oregon--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		Type of pump and hp	Well performance		Use	Acres irrigated	Remarks
								Depth to top (feet)	Thickness (feet)	Character of material		Feet below datum	Date		Yield (gpm)	Drawdown (feet)			
9/1W-28E1	Lyle Badkin	Dr	1960	102½	6	100	B	87½	15	Sand, black, and gravel	420	20	12- 2-60	J, 1½	30	55	D	--	Li, Pp 1½ hr.
28M1	Albert Julian	Dr	1962	115	10 8	32 99	P, 80-90	75 95	20 20	Clay, blue Basalt, gravel, and clay	450	14	8- 6-62	S, 1½	30b	30	D	55	Li, FC, Pp 1 hr.
28R1	Fred Kronner	Dr	1960	133	8	29	B	70	4½	"Rock," black, hard	530	52	8-24-60	J, 1	1e	22	D	--	Li; water level dropped to 110 ft when deepened to 142 ft.
29K1	F. E. Becker	Dr	1954	128	8	80	P, 5-80	17	6	Gravel and sand, loose	400	3	--	T, 7½	220	110	Irr	36	Li.
29R1	John Tarr	Dr	1966	49	6	49	B	48	1	Sand, coarse	510	15	3-30-66	S, 1	50b	9	D	--	Li, FC, CA, Pp 3 hr, Temp 53.
30C1	W. E. Wallace	Dr	1948	19	8	19	P, 11-19	11	8	Sand and gravel	370	6-10	--	C, 15	450e	1	Irr	29.8	
30C2	Laurence Killinger	Dr	1949	21	8	20	--	--	--	Gravel	365	--	--	C, 15	375e	3	Irr	32.1	
30D1	E. D. Glidewell	Dr	1940	25	8	25	P, 12-25	17	8	do.	370	10	--	C, 15	350	5	Irr	48.5	Li.
30D2	Fred Wallace	Dr	1942	26	10	26	--	10	16	do.	365	6-10	--	C, 15	300e	10	Irr	35	Lo.
30D3	Raymond Killen	Dr	1953	20	8	20	P, 12-20	15	5	do.	350	6	--	C, 15	350	5	Irr	23.3	
31A1	Joe Slangal	Dr	1964	136	8	136	P, 22-26,40-50, 60-70, 80-90, 105-115	--	--	Gravel and clay layers	390	3	--	T, 7½	70b	30	Irr	--	Li, FC, Pp 1 hr, Temp 52.
33N1	F. E. Studnicka	Dr	1946	66	8	27	P, 7-27	--	--	--	450	--	--	T, 2	17e	55	Irr	10	
9/2W-1P1	W. D. Miller and F. M. Smith	Dr	1944	38	8	38	P, 18-38	--	--	--	360	2	--	--	150	15	Irr	30	
3P1	D. B. Maxfield	Dr	1953	50	10	50	P, --	--	--	Gravel	330	8	--	S, 10	100	49	Irr	25	
4J1	Ollie Runions	Dr	1964	66	10	66	P, 40-64	37	29	Sand and gravel	315	2.2	1-18-67	C, 10	125	10	Irr	18	Li, FC, Pp 6 hr.
4K1	J. A. Holt	Dr	1953	51	8	51	B	39	12	Gravel	315	6	--	--, 10	100e	0	Irr	23	Lo; water flows into 7-ft-deep trench.
5F1	A. S. Drager	Dr	1950	121	8	94	P, --	54 69 90	12 21 2	Gravel and sand Sand Gravel and sand	301	1	--	T, 15	170	110	Irr, S	62.7	Li.

Table 1.--Records of representative wells in the lower Santiam River basin, Oregon--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		Type of pump and hp.	Well performance		Use	Acres irrigated	Remarks
								Depth to top (feet)	Thickness (feet)	Character of material		Feet below datum	Date		Yield (gpm)	Drawdown (feet)			
9/2W-6E1	H. W. Vogel	Dr	1965	179	6	52	B	150 163	1 6	Basalt, vesicular do.	445	101	9-13-65	S, 3/4	12b	58	D	--	Li, Pp 1 hr.
6P1	L. J. Cunningham	Dr	1952	119	8	83	B	--	--	Clay and shale	375	--	--	T, 10	120	90	Irr	55	Flows in winter.
10B1	M. W. Rea	Dr	1957	42	6	42	B	40	2	Gravel and sand	335	4	3- 5-57	--	20b	18	D	--	Li, Pp 1 hr.
12K1	A. T. Hallmark	Dg	1954	20	180	None	Infiltration trench	--	--	--	372	6	--	--	800e	--	Irr	30	
12N1	O. H. Coomes	Dr	1961	166	10 8	83 166	P, 17-26, 83-138	17 83	9 55	Gravel, coarse, sand, and clay Gravel, coarse, with clay layers	365	3	6- 6-60	T, 15	310	92	Irr	--	Li, Pp 1/2 hr.
14A1	H. W. Ransom	Dr	1949	130	12	130	P, --	--	--	--	365	29	--	C, 25	188 250	60 110	Irr	69	
20D1	C. L. Harding	Dr	1963	335	12 8	250 335	B	243	47	Basalt	680	140	5-23-63	S, 10	60	120	Irr, D	--	Li, Pp 8 hr.
20R1	R. E. Robertson	Dr	1953	81	6	81	P, 65-81	79	2	"Rock"	375	6	Summer	--, 3	120	8	Irr, D	20	Flows in winter.
22K1	Alice M. McCoy	Dg	1945	6	36	--	Infiltration trench	--	--	--	335	--	--	C, 20	300e	--	Irr	11	
22K2	H. T. Clark	Dg	1947	15	72	--	do.	--	--	--	330	--	--	--, 15	700e	--	Irr	24	
23A1	R. M. Husted	Dr	1954	26	8	26	P, --	--	--	--	355	5	--	C, 10	400	3	Irr	12.6	
23A2	C. L. Hatch	Dr	1964	37	8	34	P, 18-25, 30-33	15 30	9 4	Gravel and sand do.	355	10	5-23-64	--	300	2	Irr	--	Li, FC, Pp 1 hr, Temp 52.
23G1	J. L. Hallam	Dg	1949	14	180	--	--	3	11	do.	351	3	--	C, 9	200e	6	Irr	20	Lo.
23H1	H. A. Potter	Dg	1949	16	144	--	Infiltration trench	8	8	do.	355	8	--	C, 10	200e	13	Irr	23.3	Lo.
23J1	L. C. Rea	Dr	1948	30	6	30	--	--	--	--	348	8	--	C, 10	100e	--	Irr	6	
23J2	S. D. Brewston	Dg	1954	27	192	--	Infiltration trench	--	--	--	352	9	--	C, 15	500	4	Irr	10	

Table 1.--Records of representative wells in the lower Santiam River basin, Oregon--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		Type of pump and hp	Well performance		Use	Acres irrigated	Remarks
								Depth to top (feet)	Thickness (feet)	Character of material		Feet below datum	Date		Yield (gpm)	Drawdown (feet)			
9/2W-23K1	D. W. Lambert	Dr	1946	38	8	38	P, 20-38	12	26	Sand and gravel	345	12	--	--, 9	150	15	Irr	9.5	Lo.
23K2	Melvin Stinnett	Dg	1948	13	84	--	Infiltration trench	6	7	do.	340	6	Summer	C, 10	250e	--	Irr	16	Lo.
23K3	L. C. Rea	Dg	1949	16	120	--	Infiltration trench	--	--	--	340	6	do.	C, 10	200e	--	Irr	12	
23N1	Alma Coak	Dg	1945	12	144	--	Infiltration trench	5	7	Sand and gravel	335	5	--	C, 5	140e	--	Irr	12	
23P1	K. C. Parker	Dg	1952	12	120	--	Infiltration trench	2.5	9.5	Sand and rock	337	2.5	--	C, 15	480	6	Irr	19.5	Lo.
24C1	H. W. Russell	Dg	1951	8	480	--	Infiltration trench	4	4	Gravel	370	2	--	C, 20	150e	--	Irr	31.5	Lo.
24E1	G. J. Weitman	Dr	1953	61	8	61	--	--	--	--	356	10	--	T, 6	100	2	Irr	23	
24E2	Harry Weston	Dr	1953	60	8	--	--	--	--	--	356	10	--	J, 5	100e	2	Irr	4.43	
24H1	H. H. Ralphs	Dr	1951	21	8	21	P, --	11	10	Sand and gravel	375	11	--	C, 10	450	7	Irr	35	
24J1	do.	Dr	1943	25	8	25	P, --	11	10	do.	370	11	--	C, 15	450	7	Irr	35	
24J2	R. E. Glidewell	Dr	1945	21	8	21	P, 10-21	8 13	5 8	Sand Gravel	370	8	--	C, 10	350	6	Irr	14.7	Li.
24J3	Alfred Schieman	Dr	1946	25	8	25	P, 20-25	16	9	do.	370	16	--	C, 5	112	2	Irr	4.68	Lo.
24K1	Mary A. Whitlatch	Dr	1944	24	8	24	P, 19-24	--	--	--	370	14	--	C, 10	300	3	Irr	19.6	
24K2	W. W. Poole	Dr	1946	30	8	30	P, 24-30	13 20	7 10	Boulders Gravel	372	13	--	C, 10	600	5.5	Irr	20.5	Lo.
24K3	Byrd Hendren	Dr	1949	25	8	25	P, 15-25	--	--	--	372	11	--	C&J, --	216	3	Irr	11	
24K4	M. M. Windsor	Dr	1949	23	8	23	P, 3-22	--	--	--	373	16	--	C, 7½	200	1½	Irr	22	
24L1	R. L. Howard	Dg	p1928	23	48	--	--	22	1	Sand and gravel	368	15.55	--	B	--	--	D	--	Lo.
24L2	A. J. Bishop	Dr	1947	29	8	29	P, 17-29	16 25	9 4	Sand, gravel, and silt Gravel, partly cemented	360	16	--	C, 15	400e	--	Irr	27.3	Lo.

Table 1.--Records of representative wells in the lower Santiam River basin, Oregon--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		Type of pump and hp.	Well performance		Use	Acres irrigated	Remarks
								Depth to top (feet)	Thickness (feet)	Character of material		Feet below datum	Date		Yield (gpm)	Drawdown (feet)			
9/2W-24L3	Boyd Hilton	Dr	1962	140	10	138	P, 15-138	23	117	Gravel and sand	370	10	10-19-62	T, 30	300+	117	Irr	--	Li, FC, CA, WL, Pp 4 hr.
24M1	Adolph Diercks	Dr	1953	25	8	25	--	--	--	--	358	20	--	C, 10	150	3	Irr	19	
24M2	Albert Krenz	Dr	1963	54	6	54	P, 50-53	50	4	Gravel and sand	358	15	12-27-63	--	50b	7	D, Irr	3½	Li.
24N1	L. H. Peters	Dg	1947	22	360	--	Infiltration trench	--	--	Gravel	352	6-10	--	C, 20	352e	7	Irr	30	Has pumped 504 gpm.
24P1	J. A. James	Dr	1948	20½	8	20½	P, 10-20½	11	9.5	Sand and gravel	355	11	--	C, 15	280e	--	Irr	21.5	Lo.
24P2	William Towery	Dr	1948	25	8	25	P, 10-25	9 16	7 9	do. Gravel	355	9	--	C, 10	200	5	Irr	12	Lo.
24P3	North Santiam School	Dr	1962	40	6	40	B	37	3	Sand and gravel	350	11	9-11-62	--	100	9	Irr	--	Li, FC, Pp 1 hr.
24R1	Alfred Hofmann	Dr	1939	26	8	26	P, --	11	15	Gravel	365	11	--	C, 15	272e	1	Irr	27	Lo.
24R2	A. F. Keithley	Dr	1946	23	6	23	P, 17-23	12	11	do.	365	12	--	N	170e	--	U	--	Lo, FC, WL, H; originally irrigated 19.8 acres.
25A1	Otto Nelson	Dr	1941	26	8	26	P, 20-26	6	20	do.	363	6	--	C, 15	540e	Very little	Irr	27.04	Lo.
25A2	do.	Dr	1946	20	8	20	P, 14-20	10	10	do.	367	10	--	C, 15	225e	--	Irr	16.13	Lo.
25B1	J. A. James	Dr	1948	21	8	21	P, 11-21	11	10	Sand and gravel	350	11	Spring	C, 300	280e	--	Irr	35	Lo.
25B2	Mrs. Hinkle	Dr	1964	24	8	24	P, 9-22	10	14	do.	353	10	7- 8-64	C, 15	--	--	Irr	25	Li.
25C1	William Towery	Dr	1947	21	8	21	P, 10-21	9 10	1 11	do. Gravel	355	9	--	C, 15	450	2.5	Irr	27	Lo.
25C2	do.	Dr	1949	21	8	21	P, 10-21	9 10	1 11	Sand and gravel Gravel	349	9	--	C, 15	450	2.5	Irr	11.6	Lo.
25E1	Louis Scofield	Dr	1949	25	8	25	P, 13-25	--	--	--	345	11-12	--	C, 15	400+e	3	Irr	45.93	
25E2	Glenn Tierce	Dr	1952	22	8	22	P, --	8	14	Gravel	340	8	--	C, 15	400e	--	Irr	30	Lo.
25F1	William Towery	Dr	1946	23	8	23	P, 10-23	9 11	2 12	Sand and gravel Gravel	345	9	--	C, 15	450	2.5	Irr	13	Li.

Table 1.--Records of representative wells in the lower Santiam River basin, Oregon--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		Type of pump and hp	Well performance		Use	Acres irrigated	Remarks
								Depth to top (feet)	Thickness (feet)	Character of material		Feet below datum	Date		Yield (gpm)	Drawdown (feet)			
9/2W-25F2	William Towery	Dr	1947	21	8	21	P, 10-21	9 12	3 9	Sand and gravel Gravel	349	9	--	C, 15	450	2.5	Irr	33.5	Lo.
25G1	do.	Dr	1955	22	8	22	P, 10-22	11	11	do.	352	9	--	C, 15	450	2.5	Irr	15.5	Lo.
25H1	E. D. Glidewell	Dr	1940	29	8	29	P, 10-29	8 21	13 8	Sand Gravel	355	6	--	C, 15	350	3	Irr	21.6	Lo.
25H2	Agnes K. Harvey	Dr	1954	22	8	--	--	--	--	--	355	12	--	C, 10	300e	--	Irr	8	
25H3	Otto Nelson	Dr	1955	26	8	26	P, 20-26	6	20	Gravel	355	6	--	C, 10	384e	3	Irr	15.31	Lo.
25K1	Louis Scofield	Dr	1958	22.5	8	22.5	P, 10½-22½	6	16	Sand and gravel	349	5	1- 3-58	--	400	2	Irr	--	Lo, Temp 52.
25L1	William Towery	Dr	1942	26	8	26	P, 10-26	9 11	2 15	do. Gravel	340	9	--	C, 15	450	2.5	Irr	11.4	Lo.
25L2	do.	Dr	1948	27	8	27	P, 10-27	9 15	6 12	Sand and gravel Gravel	345	9	--	C, 15	450	2.5	Irr	21.4	Lo.
25M1	L. C. Scofield	Dr	1952	21	8	21	P, 9-21	--	--	--	335	10	--	--, 15	400+e	2.5	Irr	35.45	
25N1	do.	Dr	1965	21	10	21	P, 18-21	17	4	Gravel and sand	330	9	7- 5-65	C, 15	300	.5	Irr	30	Li, FC, Pp 1 hr.
26A1	Glenn Tierce	Dr	1955	42	8	42	P, 10-42	--	--	--	346	9-10	--	T, 10	290e	--	Irr	43.9	FC, WL.
26D1	J. B. Fisher	Dg	1947	10	180	--	--	--	--	--	330	6	--	C, 7½	50e	--	Irr	40	
26E1	W. W. Clack	Dg	1948	15	300	--	--	3	12	Gravel	328	3	--	C, 7½	160e	--	Irr	19	Lo.
26G1	P. J. Kremer	Dr	1950	25	8	25	P, 19-25	19	6	do.	340	5	Summer	--, 15	600	5	Irr	55	Lo, FC; flows in winter.
26H1	Albert Lyons	Dr	1947	29	8	26	P, 16-26	13	13	do.	338	8	5-12-66	C, 10	200+e	5-8	Irr	16.16	Lo; drawdown depends on river WL;
26H2	P. J. Kremer	Dr	1957	26	8	26	P, 11-26	11	14	Sand and gravel	343	12	1958	--	360	10	Irr	15	Lo, FC, Pp 2 hr.
26J1	Albert Lyons	Dr	1945	28	8	28	P, 18-28	11	20	Gravel	335	11	--	C, 15	235e	6-8	Irr	25	Lo.
26K1	Merle Crane	Dr	1965	35	10	33	P, 18-22	9	13	Sand and gravel	325	9	4-17-65	N	150	10	U	--	Li, Pp 1 hr.
26K2	do.	Dr	1965	33	10	33	P, 18-27	17	10	Gravel and sand	338	8 11	5-29-65 7- 6-65	C, 10	260	11	Irr	35	Lo, FC, Pp 2 hr, wells 26K2 and 26K3 Pt.

Table 1.--Records of representative wells in the lower Santiam River basin, Oregon--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		Type of pump and hp	Well performance		Use	Acres irrigated	Remarks
								Depth to top (feet)	Thickness (feet)	Character of material		Feet below datum	Date		Yield (gpm)	Drawdown (feet)			
9/2W-26K3	Merle Crane	Dr	1965	23	10	23	P, 18-23	15	6	Sand and gravel	338	10	9-25-65	C, 10	150	6	Irr	--	Lo, FC, Pp 1 hr, wells 26K3 and 26K2 Pt.
26L1	Lawrence Clark	Dr	1965	31	10	20	P, 18-20	15	5	Gravel and sand	325	8	5-26-65	C, 25	300	7	Irr	--	Lo, FC, Pp 1 hr, Temp 52.
26N1	do.	Dr	1965	21	10	20	P, 18-20	17	4	do.	325	8	5-27-65	C, 15	250	2	Irr	--	Lo, FC, Pp 1 hr, Temp 52.
26P1	Merle Crane[1]	Dr	1965	30	10	30	P, 18-30	13	15	Gravel	325	9	10- 6-65	C, 20	220	14	Irr	35	Li, FC, Pp 2 hr.
26R1	Clarence Gavette	Dr	1952	20	8	20	P, 14-20	6	14	do.	330	6	--	C, 15	400+e	0	Irr	57.67	Lo.
27A1	R. G. Wheeler	Dg	1948	16	144	--	--	--	--	--	330	3	--	C, 7½	100	8	Irr	15	
27A2	E. F. Schermacher	Dr	1958	2,426	10 8	200 640	P, 50-200	50 60 82 104 183	6 5 6 32 39	Sand and gravel do. Gravel do. Gravel and sand	330	3	4-22-63	--	600 500 300	91 72 47	Irr and test	--	Li, Pp 3½ hr) Oil test Li, Pp 4 hr) well. Li, Pp 4½ hr)
27E1	William Watson	Dg	1952	16	120	None	Infiltration trench	--	--	Gravel and blue "mud"	320	0	--	C, 12	80	All	Irr	14.3	Lo, Pp 6 hr.
27J1	D. C. Jones	Dr	1962	77	8	76	P, 17-76	10 54 58	44 3 19	Sand and gravel Gravel Gravel and sand	327	6	4-12-62	T, 7½	120	59	Irr	10	Li, FC, Pp 1½ hr.
27P1	O. D. Wilkinson	Dr	1951	120	8	120	--	--	--	--	315	5	--	T, 5	117	100	Irr	35	
27Q1	A. B. Hinz	Dr	1950	130	8	128	P, 20-128	--	--	--	320	25	--	T, 25	300	120	Irr	106	Wells 27Q1 and 27R1 Pt.
27R1	do.	Dr	1949	105	8	105	P, 25-105	25	80	Gravel	324	25	--	T, 25	200	100	Irr	--	Lo, wells 27Q1 and 27R1 Pt.
28G1	Glenn Julian	Dr	1951	125	10	47	P, 36-47	--	--	--	315	36	--	T, 3½	50e	--	Irr	1.5	
28G2	Dorsey Gray	Dr	1961	100	12	None	Abandoned	--	--	--	315	3	7-19-61	N	40	40	U	--	Li, Pp 2 hr.
28H1	do.	Dr	1961	73	12	73	P, 38-73	16 63	36 6	Gravel and sand do.	311	6	7-20-61	--	200	32	Irr	--	Li, Pp 3 hr, Temp 58.
28K1	Warren Gray	Dr	1941	63	10	63	--	--	--	--	307	4	--	C, 10	150	8	Irr	11.3	
32A1	Floyd Davidson	Dr	1959	51	6	33	B	43	7	Volcanic ash	410	12	10- 4-59	--	20b	21	D	--	Li.

Table 1.--Records of representative wells in the lower Santiam River basin, Oregon--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		Type of pump and hp	Well performance		Use	Acres irrigated	Remarks
								Depth to top (feet)	Thickness (feet)	Character of material		Feet below datum	Date		Yield (gpm)	Drawdown (feet)			
9/2W-32H1	D. A. Betch	Dr	1955	180	6	29	B	148	<1	Bottom of basalt flow	525	140	9- 8-55	--	4b	25	D	--	Li.
33C1	Southern Pacific Co.	Dr	1966	42	6	42	B	40	2	Gravel	295	6	4- 8-66	--	30b	15	D	--	Li, Pp 1 hr.
33J1	G. M. Clark	Dr	1945	52	6	52	P, 37-52	--	--	--	303	--	--	--, 3	50e	--	Irr	15.5	
33P1	Audey Unger	Dr	1961	30	8	30	P, 18-30	14	16	Sand and gravel	295	5	5-29-61	C, 20	400	8	Irr	--	Lo, FC.
33P2	William Grenz	Dr	1966	23	10	23	P, 18-23	15	6	Gravel and sand	290	9	4-26-66	--	400	1½	Irr	--	Li, Pp 1 hr.
34E1	Edna A. Comerford	Dr	1946	50	6	49	--	--	--	--	305	10	--	J, 2	18e	--	Irr	4	
35B1	Robert Christenson	Dr	1965	23	10	23	P, 18-23	17	5	Gravel and sand	320	8	4- 8-65	--	250	1	Irr	2.6	Li, Pp 1 hr.
35C1	C. C. Gavette	Dr	1959	19	8	19	P, 10-18½	4½	14	Sand and gravel	325	1.5	6-12-59	--	--	--	Test	--	Lo.
35C2	W. V. Chamberlin	Dr	1965	22	10	22	P, 18-22	15	6	Gravel and sand	320	9	4-10-65	C, 15	250	1	Irr	30	Lo, Pp 1 hr, Temp 51.
35D1	Lawrence Clark	Dr	1965	22	10	22	P, 18-22	14 17	3 5	Gravel Gravel and sand	320	9	4-13-65	--	250	1	Irr	--	Lo, FC, Pp 1 hr, Temp 51.
36A1	G. E. Lynch	Dr	1952	125	6	95	P, 32-40, 44-51, 60-92	30 70	16 4	Gravel Gravel and sand	365	20	--	T, 5	125	25	Irr	17	Li, FC.
9/3W-1L1	Rufus Perry	Dr	1956	100	6	67	B	61	39	Basalt	470	18	6-29-56	--	9b	64	D	--	Li; water first found at 61 ft.
2H1	Vincent Pietrok	Dr	1956	71	6	69	B	40	31	Lava, "decomposed"	549	28½	5-16-56	--	25	31½	D	--	Li, Temp 54; water first found at 62 ft.
5N1	Eddie Fish	Dr	1943	100	6	78	B	--	--	--	196	30	--	J, 5	56e	--	Irr	11	
5P1	J. L. Payne	Dr	1966	80½	12	69	P, 45-65	48	18	Sand and gravel	198	41	7-26-66	--	200 235	16 20	Irr, D	--	Li, FC, Pp 5 and 2 hr, respectively.
8C1	do.	Dr	1965	81	12	74	P, 42-68	41	27	do.	202	30.7 36	2-10-67 10- 1-65	S, --	160	26	Irr	--	Li, FC, CA, WL, Pp 16 hr, Temp 55.
8D1	G. E. Moss	Dr	1962	110	12	74	P, 49-69	62	8	Gravel	200	35	5-15-62	T, 20	--	--	Irr	--	Li, FC, Temp 53.

Table 1.--Records of representative wells in the lower Santiam River basin, Oregon--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		Type of pump and hp	Well performance		Use	Acres irrigated	Remarks
								Depth to top (feet)	Thickness (feet)	Character of material		Feet below datum	Date		Yield (gpm)	Drawdown (feet)			
9/3W-9F1	Exec-House, Inc.	Dr	1965	101	10	86	P, 63-84	60	23	"Claystone, broken"	225	2	2-25-65	--	50	84	D, Irr	--	Li, FC, Pp 3 hr, Temp 54; unusable unconfined water at 2-16 ft. It took 34 hr to recover full artesian pressure after test pumping 3 hr.
9F2	do.	Dr	1965	82	8	66	P, 51-63½	53	10	Conglomerate	220	36	3- 3-65	--	90	38	D, Irr	--	Lo, FC, Pp 3 hr, Temp 54.
9K1	do.	Dr	1965	130	8	60	P, 8-58	41	8	Basalt	260	5½	3-11-65	--	35b	115	Irr	--	Lo, FC, Pp 1 hr, Temp 54.
10R1	Oregon Highway Dept.	Dr	1956	106	6	44½	B	95 98	3 2	Shale do.	250	25	1-23-56	--	17	15	D	--	Li, Pp 36 hr, Temp 57; water first found at 30 ft.
14E1	Portland Gas & Coke Co.	Dr	1936	3,617	--	--	--	--	--	--	305	--	--	--	--	--	Test	--	Oil test well.
18D1	G. E. Lamp	Dr	1961	33½	12	33½	P, 20½-31½	15	18½	Sand and gravel	170	15½	5-25-61	C, 15	750	2	Irr	--	Li, FC, CA, Pp 3 hr.
18E1	Galina Winn	Dg, Dr	1945	32	6	--	--	--	--	--	170	--	--	--, 20	460	½	Irr	39	
18G1	W. D. Jones	Dr	1947	44	6	44	P, --	--	--	--	176	17	--	--, 5	90	0	Irr	6	
18L1	G. E. Lamp	Dr	1957	46	12	46	P, 30-42	22	24	Sand and gravel	176	24	7-26-57	T, 15	480	14	Irr	--	Li, FC, WL, Pp 2 hr.
18M1	Glenn Edwards	Dr	1948	35	8	35	--	--	--	--	175	12	--	C, 5	200	6	Irr	11½	
18N1	Louise Johnston	Dr	1953	50	10	50	P, 41-50	41	9	Gravel	177	26	--	T, 7½	135	19	Irr	137½	Li.
18P1	Forrest Freitag	Dr	1947	45	10	45	P, --	25	20	Sand and gravel	180	--	--	J, 5	100e	--	Irr	14.3	Lo.
19D1	William Krebs	Dr	1966	60	10	50	P, 40-50	37 48	3 1	Gravel do.	200	30	8-26-66	--	45b	10	Irr	--	Li, Pp 1 hr.
19G1	D. L. Turnidge	Dr	1954	67	12	50	P, 30-50	30	20	do.	200	30	--	T, 20	200	10	Irr	60	Lo.
23R1	M. L. Vickery	Dr	1960	140	6	135½	B	129	11	Sand, gravel, and sandstone	260	3.5 8	4-15-66 9-16-66	T, 3	20b	70	D	--	Li, FC, WL, Pp 1 hr.
29M1	A. E. Cole	Dr	1953	25	8	25	P, 19-25	--	--	--	180	15	--	C, 20	500	3	Irr	30	Li.
29P1	E. B. Henningsen	Dg	1934	22	12	22	P, --	6	16	Gravel	180	10	--	C, 20	350	1½	Irr	34	Lo.

Table 1.--Records of representative wells in the lower Santiam River basin, Oregon--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		Type of pump and hp	Well performance		Use	Acres irrigated	Remarks
								Depth to top (feet)	Thickness (feet)	Character of material		Feet below datum	Date		Yield (gpm)	Drawdown (feet)			
9/3W-30E1	Delmar Davidson	Dr	1959	30	10	30	P, 24-29	14	16	Gravel and coarse sand	175	6 15.2	12-19-66 9-16-66	C, 15	600e	--	Irr	--	Li, FC, WL, Temp 50.
30H1	D. E. Turnidge	Dr	1948	30	6	30	P, 18-30	14	16	Sand and gravel	180	10	--	C, 5	250e	--	Irr	10	Lo.
30H2	Lorin Hovin	Dr	1961	31	10	31	P, 22-30	20	11	Gravel and sand	180	9	4-13-66	C, --	100	8	Irr	--	Li, FC, Pp 2 hr, Temp 52; can be pumped dry under constant use.
30J1	Herman Kieper	Dg, Dr	1928	22 36	48 12	36	--	--	--	Gravel	180	20	--	C, 10	256e	12	Irr	9	
30K1	do.	Dr	1947	36	8	36	P, --	--	--	do.	180	20	--	C, 10	256e	12	Irr	11	
30K2	E. J. Freeman	Dr	1951	20	8	20	P, 14-20	6	14+	Sand, coarse, and gravel	180	10	--	C, 10	200	0	Irr	10	Lo.
30L1	D. A. Davidson	Dg	1938	16	48	--	--	13	3	Gravel	180	--	--	C, 20	500e	--	Irr	46	Lo.
30L2	do.	Dr	1953	30	10	--	--	6	14	Gravel and sand	180	--	--	C, 20	500e	--	Irr	69	Lo.
30L3	Delmar Davidson	Dr	1957	30	12	30	P, 24-29	16	14	Gravel and coarse sand	180	12	5-19-66	C, 15	500	2	Irr	--	Li, FC, CA, Temp 51.
30Q1	E. J. Freeman	Dr	1942	25	10	25	P, 10-25	6	19+	do.	180	12-16	Spring-fall	C, 15	700e	--	Irr	35	Lo.
30Q2	C. A. Myers	Dr	1945	28	10	28	--	--	--	--	180	13	--	C, 10	240e	--	Irr	56	Wells 30Q2 and 30Q3 Pt.
30Q3	do.	Dr	1946	29	10	29	--	--	--	--	180	13	--	C, 10	240e	--	Irr	--	Wells 30Q2 and 30Q3 Pt.
31B1	Janet Wied	Dr	1944	20	10	20	P, --	--	--	--	180	4	5-30-58	C, 20	300	7	Irr	30	
31E1	Glen Wilfert	Dr	1947	30	12	30	P, 15-30	12	18	Gravel	175	10	--	C, 15	500 1,000	1 3	Irr	30	Lo.
31K1	D. L. Turnidge	Dr	1948	20	8	20	P, 12-20	12	8	do.	176	10	--	C, 15	500e 1,000e	1 3	Irr	40	Li.
31M1	Glen Wilfert	Dr	1951	30	10	30	P, 15-30	12	18	do.	175	10	--	C, 10 and 15	800e 1,000e	2 3	Irr	55	Lo.
31N1	N. L. Grate	Dr	1944	28	10	28	P, 25-28	--	--	--	176	12	--	C, 30	400e	--	Irr	43	
31P1	D. L. Turnidge	Dr	1946	30	10	30	P, 15-20	12	18	Gravel	175	10	--	C, 10	500 1,000	1 3	Irr	28	Lo.

Table 1.--Records of representative wells in the lower Santiam River basin, Oregon--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		Type of pump and hp	Well performance		Use	Acres irrigated	Remarks
								Depth to top (feet)	Thickness (feet)	Character of material		Feet below datum	Date		Yield (gpm)	Drawdown (feet)			
9/3W-31R1	Ardle Edwards	Dr	1948	25	8	25	--	8	--	Gravel	177	10	--	C, 10	110e	--	Irr	14	Lo.
31R2	do.	Dr	1950	26	10	26	--	12	--	Sand and gravel	185	13	--	C, 20	250e	--	Irr	31	Lo.
32A1	El Rancho Menta	Dr	1951	27	12	27	P, --	12	15	Gravel and sand	185	9	4-15-57	C, 30	600e	--	Irr	110	Li.
32C1	E. B. Henningsen	Dg	1934	22	12	22	B	6	16	Gravel	185	10	--	C, 20	350	1½	Irr	38	Lo, wells 32C1 and 32F1 Pt.
32F1	do.	Dg	1934	22	12	22	P, --	6	16	do.	185	10	--	C, 25	450	2	Irr	--	Lo, wells 32C1 and 32F1 Pt.
32N1	Ardle Edwards	Dr	1955	26	10	26	--	5	--	Sand and gravel	185	13	--	C, 10	150e	--	Irr	25	Lo.
32R1	J. P. Grizzel	Dr	1952	20	10	20	P, 10-20	--	--	--	190	10	--	C, 10	200e	--	Irr	25	
33B1	L. C. Robertson	Dr	1963	27½+	8	27½	P, 23-26½	16	11½	Gravel	190	5	5-23-63	C, 7½	600	2	Irr	--	Li, FC, Pp 2 hr, Temp 56.
33G1	Elmer Cook	Dr	1958	28	8	28	P, 23-27	20	6	do.	185	9	4-14-58	--	600	1	Irr	--	Lo, Pp 4 hr, Temp 52.
33H1	A. C. White	Dr	1948	31	8	31	P, 20-31	20	11	do.	195	12	--	C, 15	500	2	Irr	62	Lo.
33N1	D. S. Chambers	Dn	1947	20	4	20	P, 15-20	--	--	--	190	12	--	C, 15	350e	4	Irr	12	
33R1	Oregon State Parks	Dr	1966	52	6	52	P, 43½-49	42	8	Gravel and sand	190	14½	1-22-66	--	53	31	PS	--	Li, FC, Pp 3 hr.
33R2	do.	Dr	1966	50	6	50	P, 25-38, 44-48	19 44	19 4½	Silt and sand Silt, sand, and gravel	190	16½	7-29-66	--	265	½	PS	--	Lo, Pp 3 hr.
34E1	D. L. Turnidge	Dr	1946	40	12	40	P, 32-40	16	24	Sand and gravel	195	16	--	C, 15	450e	--	Irr	94	Lo, wells 34E1, 34M1, 34M2, and 34N1 Pt.
34F1	Ammon Bros.	Dr	1950	30	10	30	P, 24-30	--	--	--	200	10	--	C, 20	400e	7	Irr	30.2	
34F2	do.	Dr	1954	30	10	30	P, 24-30	--	--	--	200	5	--	C, 20	500e	5	Irr	36.7	
34J1	Posel	Dr	1961	398	8	72	P, 66-70	68	<1	Break between yellow clay and blue shale	210	22	5-12-66	T, 1	45b 80	45 250	Irr	--	Li, FC, WL, Pp 2 hr.
34K1	Ammon Bros.	Dr	1954	30	10	30	P, 24-30	--	--	--	200	8	--	C, 10	200e	8	Irr	19.9	Abandoned in 1960.
34K2	D. L. Turnidge	Dr	1954	32	12	32	P, 24-32	26	6	Sand and gravel	205	16	--	C, 15	--	--	Irr	89	Lo, wells 9/3W-34K2, 34Q1, 34Q2, and 10/3W-3B1 Pt.

Table 1.--Records of representative wells in the lower Santiam River basin, Oregon--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		Type of pump and hp	Well performance		Use	Acres irrigated	Remarks
								Depth to top (feet)	Thickness (feet)	Character of material		Feet below datum	Date		Yield (gpm)	Drawdown (feet)			
9/3W-34K3	Weldon Ferry	Dr	1959	29	8	29	P, 23-28	16	13	Gravel and sand	200	11	5-12-59	C, 10	400	12	Irr	--	Li, FC, Pp 2 hr, Temp 51.
34K4	Ralph Nelson	Dr	1960	34	8	33	P, --	12	22	Gravel	200	12	6-29-60	C, 20	--	--	Irr	--	Li, FC, CA; replaced well 34K1.
34M1	Dale Turnidge	Dr	1944	30	8	30	P, 24-30	6	24	Sand and gravel	200	3.7	1-20-67	C, 10	250e	--	Irr	--	Lo, FC, wells 34E1, 34M1, 34M2, and 34N1 Pt.
34M2	do.	Dr	1950	32	12	32	P, 26-32	16	16	do.	195	16	--	C, 15	275e	--	Irr	--	Lo, wells 34E1, 34M1, 34M2, and 34N1 Pt.
34N1	do.	Dr	1952	30	12	30	P, 24-30	11	19	do.	200	11	1-20-67	C, 15	275e	--	Irr	--	Lo, wells 34E1, 34M1, 34M2, and 34N1 Pt.
34Q1	do.	Dr	1936	40	8	40	P, 32-40	16	24	do.	215	16	--	C, 15	275e	--	Irr	--	Lo, wells 34Q1 and 34Q2 Pt.
34Q2	do.	Dr	1938	40	8	40	P, 30-40	16	24	do.	215	16	--	C, 5	100e	--	Irr	10	Lo, wells 34Q1 and 34Q2 Pt.
34Q3	do.	Dr	1945	40	8	40	P, 32-40	--	--	--	215	16	--	C, 3	60e	--	Ind	--	
36N1	Cleo Hinkhouse	Dr	1954	27	4	27	P, 20-27	--	--	--	210	10	--	C, --	250e	--	Irr	12	
9/4W-13J1	C. T. Morris	Dr	1943	34	10	34	P, 23-33	--	--	--	174	12	--	C, 20	600	12	Irr	52	
23Q1	H. F. Louie	Dr	1938	42	12	42	P, --	--	--	Sand and gravel	175	15	--	C, 25	400e	--	Irr	64	
23R1	Gayle Gilmour	Dr	1962	34	10	34	P, 27-33	19	15	Gravel	173	19	4-20-62	C, 20	600	8	Irr	--	Li, Pp 2 hr, Temp 52.
24C1	William Wiederkehr	Dr	1942	44	12	24	P, --	--	--	--	175	8	--	C, 15	320e	--	Irr	35	
24E1	Portland Gas & Coke Co.	Dr	1935	2,845	--	--	--	--	--	--	176	--	--	--	--	--	Test	--	"Buena Vista" oil test well.
24K1	Frank Gilmour	Dr	1940	35	12	35	P, 25-35	--	--	--	170	3 15	Winter Summer	C, 10	300e	--	Irr	30	
24L1	J. W. Gilmour	Dr	1929	35	8	35	P, 18-26	18	8	Gravel	170	8	--	C, 15	350	8	Irr	41	Li.
24L2	do.	Dr	1930	30	8	30	P, 18-26	18	12	do.	170	8	--	C, 10	240	8	Irr	23	Lo.
24M1	do.	Dr	1930	33	12-10	33	P, 18-24	--	--	--	170	10±	--	C, 15	350	7	Irr	29	
24M2	D. E. Turnidge	Dr	1936	26	12	26	P, 16-26	14	12	Sand and gravel	175	14	--	C, 10	350e	--	Irr	170	Lo, wells 24M2, 24N1, 25D1, 25E1, 25E2, and 25M1 Pt.

Table 1.--Records of representative wells in the lower Santiam River basin, Oregon--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		Type of pump and hp	Well performance		Use	Acres irrigated	Remarks
								Depth to top (feet)	Thickness (feet)	Character of material		Feet below datum	Date		Yield (gpm)	Drawdown (feet)			
9/4W-24N1	D. E. Turnidge	Dr	1951	35	10	35	P, 25-35	14	21	Sand and gravel	173	15	--	C, 10	400e	--	Irr	--	Lo, wells 24M2, 24N1, 25D1, 25E1, 25E2, and 25M1 Pt.
24P1	William Krebs	Dr	1934	30	12	30	--	--	--	--	165	3	--	C, 25	550	10	Irr	146.2	Wells 24P1 and 25F1 Pt.
25A1	D. A. Davidson	Dr	1945	30	10	--	--	14	16	Gravel	174	--	--	--	500e	--	Irr	41.7	Li.
25D1	D. E. Turnidge	Dr	1936	22	12	22	P, 12-22	4	18	Sand and gravel	170	2	--	C, 7½	300e	--	Irr	--	Lo, wells 24M2, 24N1, 25D1, 25E1, 25E2, and 25M1 Pt.
25E1	do.	Dr	1936	27	12	27	P, 15-27	14	13	do.	176	14	--	C, 10	350e	--	Irr	--	Lo, wells 24M2, 24N1, 25D1, 25E1, 25E2, and 25M1 Pt.
25E2	do.	Dr	1936	32	8	32	P, 22-32	14	18	do.	174	14	--	C, 10	350e	--	Irr	--	Lo, wells 24M2, 24N1, 25D1, 25E1, 25E2, and 25M1 Pt.
25F1	William Krebs	Dr	1934	30	12	30	--	--	--	--	174	--	--	C, 15	550	0	Irr	--	Wells 24P1 and 25F1 Pt.
25F2	Oscar Hoven	Dr	1942	40	10	--	--	--	--	--	174	20	--	C, 15	250e	--	Irr	28	
25G1	C. S. Starr	Dr	1932±	32	12	32	--	--	--	--	174	16	7- -57	C, 10	250e	--	Irr	18.3	
25G2	William Krebs	Dr	1934	30	12	30	--	--	--	--	175	13	--	C, 85	550	0	Irr	82.2	Wells 25G2 and 25H1 Pt; gasoline-powered pump.
25H1	do.	Dr	1934	30	12	30	--	--	--	--	175	13	--	C, 25	550	0	Irr	--	Wells 25G2 and 25H1 Pt.
25M1	D. E. Turnidge	Dr	1935	27	12	27	P, 19-27	14	13	Sand and gravel	174	10	--	C, 15	350e	--	Irr	--	Li, wells 24M2, 24N1, 25D1, 25E1, 25E2, and 25M1 Pt.
25M2	G. E. Turnidge	Dr	1938	24	12	24	P, 12-24	10	14	do.	176	10	--	C, 16	1,000	2	Irr	33	Lo.
25Q1	do.	Dr	1940	26	12	26	P, 14-26	12	14	do.	176	14	--	C, 15	600e	--	Irr	48	Lo.
26A1	Gayle Gilmour	Dr	1965	40	8	40	P, 24-39	14	23	do.	170	20	7-24-66	N	40b	3	Irr	--	Li, FC, Pp 1 hr.
26G1	J. E. Turnidge	Dr	1944	30	12	--	--	--	--	--	172	19	5-19-57	C, 15	350e	--	Irr	55	
26H1	D. E. Turnidge	Dr	1926	15	12	15	P, 5-15	6	9	Sand and gravel	168	1	--	C, 10	350e	--	Irr	25	Lo.
26H2	do.	Dr	1928	18	12	18	P, 10-18	4	14	do.	170	5	--	C, 7½	300e	--	Irr	16	Lo.
26H3	do.	Dr	1930	27	12	27	P, 17-27	12	15	do.	174	8	--	C, 10	400e	--	Irr	50±	Li.

Table 1.--Records of representative wells in the lower Santiam River basin, Oregon--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		Type of pump and hp	Well performance		Use	Acres irrigated	Remarks
								Depth to top (feet)	Thickness (feet)	Character of material		Feet below datum	Date		Yield (gpm)	Drawdown (feet)			
9/4W-26J1	D. E. Turnidge	Dr	1932	25	10	25	P, 10-25	10	15	Sand and gravel	174	6	--	C, 15	400e	--	Irr	60	Lo.
26K1	J. E. Turnidge	Dr	1945±	28	8	28	--	--	--	--	175	18	--	C, 5	100e	--	Irr	6.2	
26Q1	do.	Dr	1938±	30½	8	30½	--	--	--	--	174	12	--	C, 15	350	3	Irr	34.6	
26Q2	D. A. Davidson	Dr	1947	22	10	--	--	10	12	Gravel	170	--	--	C, 10	225e	--	Irr	31.6	Li.
35B1	D. E. Turnidge	Dr	1938	30	10	30	P, 15-30	14	16	Sand and gravel	174	14	--	C, 10	350	--	Irr	25	Li.
36C1	D. L. Turnidge	Dr	1939	30	10	30	P, 15-30	12	18	Gravel	175	10	--	C, 10	500e 1,000e	1 3	Irr	20	Lo.
36E1	do.	Dr	1943	30	12	30	P, 15-30	12	18	do.	175	10	--	C, 15	500e 1,000e	1 3	Irr	45	Li.
36E2	do.	Dr	1947	30	12	30	P, 15-30	12	18	do.	174	10	--	C, 15	500e 1,000e	1 3	Irr	50	Lo.
36F1	do.	Dr	1954	30	8	30	P, 15-30	12	18	Sand and gravel	175	10	--	C, 10	500e 1,000e	1 3	Irr	15	Lo.
36G1	Florence M. Cooper	Dr	1948	30	10	30	P, 22-30	--	--	--	175	10	--	C, 10	500e	5	Irr	11	
36G2	Glen Edwards	Dr	1957	21	8	20	P, 15-20	10	11	Gravel with sand	175	7	4-22-57	--	600	1	Irr	--	Li, FC, Pp 2 hr.
36J1	Florence M. Cooper	Dr	1954	32	10	32	P, 24-32	--	--	--	176	12	--	C, 40	450e	4	Irr	69.7	Gasoline-powered pump.
36K1	do.	Dr	1938	25	10	25	P, 17-25	--	--	--	176	3	--	C, 40	2,000e	1	Irr	69.7	
36L1	D. L. Turnidge	Dr	1941	30	12	30	P, 15-30	12	18	Gravel	175	10	--	C, 15	500e 1,000e	1 3	Irr	40	Lo.
36P1	do.	Dr	1942	30	12	30	P, 15-30	12	18	do.	175	10	--	C, 15	500e 1,000e	1 3	Irr	55	Lo.
36Q1	Florence M. Cooper	Dr	1940	30	10	30	P, 22-30	--	--	--	175	10	--	C, --	500e	5	Irr	17.5	Gasoline-powered pump.
36Q2	do.	Dr	1942	30	10	30	P, 10-30	--	--	--	175	14	--	C, 15	350e	5	Irr	16.5	
36R1	N. L. Grate	Dr	1944	28	10	28	P, 25-28	--	--	--	177	13	--	C, 20	400e	--	Irr	46.5	
9/1-3E1	Etzel Bros.	Dr	1964	400	10	60	B	58	333	Basalt and ash	1,160	61	4-24-64	T, 40	325	232	Irr	--	Li, FC, WL, Pp 3½ hr.

Table 1.--Records of representative wells in the lower Santiam River basin, Oregon--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		Type of pump and hp	Well performance		Use	Acres irrigated	Remarks
								Depth to top (feet)	Thickness (feet)	Character of material		Feet below datum	Date		Yield (gpm)	Drawdown (feet)			
9/1-5N1	Della C. Boedigheimer	Dr	1965	352	10	19	B	230	157	Basalt and sandstone	885	193	12- 2-65	T, 50	550	48	Irr	--	Li, FC, WL, Pp 4 hr; dropped to 243 ft overnight in summer of 1966.
6N1	Florence Bental	Dr	1956	78½	8	8	B	48 72	12 >1	"Rock," hard "Rock," gray, hard	740	10	6- -56	--	60b	33	D	--	Li.
7E1	J. L. Apple	Dr	1955	50	8	47	P, 8-45	5 8	>1 37	Base of gravel	510	2	11-16-55	--	40b	2	Irr	--	Li, Temp 48.
7F1	A. D. Ware	Dr	1955	50	8	47	P, 3-45	5	35	Sand, gravel, and boulders	530	2	10-28-55	--	30b	20	Irr	--	Li, Temp 48.
12R1	R. O. Adams	Dr	1955	52	6	23	B	48	4	Tuffstone	720	29	9-12-55	J, 3/4	16b	7	D	--	Li; sulfur odor.
16B1	L. B. Janota	Dr	1965	40	6	40	P, 28-40	29	11	Gravel, medium	550	7.3	4-13-66	J, 1/2	20b	10	D	--	Li, FC, WL, Pp 1 hr.
25E1	Ervin Robertson	Dr	1965	273	6	20	B	220	20	"Rock," black, "broken"	1,465	150	6-15-65	J, 1½	7b	110	D	--	Li, FC, CA, Pp 1 hr.
31A1	Dale Kirsch	Dr	1960	100	6	20	B	40 60	<1 20	Crevices in tuffstone do.	805	15	--	J, 3/4	7b	--	D	--	Li, FC.
9/2-18A1	Mehama Egg Co.	Dr	1964	122	8	60	P, 28-30, 56-58	23 52 118	7 13 4	Sand, coarse, and medium gravel Boulders in shale Shale with white vesicular lava	705	15 50	4- 4-64 8-31-64	--	40b	10	Ind	--	Li, FC, Pp 1 hr; perched aquifer tapped on 4-4-64; well deepened from 30 ft to 120 ft on 8-31-64; "mineral" water at 118 ft.
18D1	Texaco, Inc.	Dr	1964	95	6	50	P, 38-48	35 45	10 3	Boulders, large Gravel, medium	660	25	6-27-64	--	20b	25	Ind	--	Li, FC, Pp 1 hr.
18E1	City of Lyons	--	--	12	72	--	Infiltration trench	--	--	Gravel	620	--	--	T, --	500e	--	PS	--	50 ft of pipe at 10-ft depth.
20R1	Simpson Redwood Co.	Dr	1951	453	12	--	--	77	8	"Rock, broken"	710	12	--	T, 7½	22e	--	Ind	--	Li.
20R2	do.	Dr	1951	119	6	34½	B	12 30 36 53	18 6 13 12	Boulders Sandstone, yellow Sandstone, gray Sandstone, black	715	12	--	T, 3	18e	--	Ind	--	Li.

Table 1.--Records of representative wells in the lower Santiam River basin, Oregon--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		Type of pump and hp	Well performance		Use	Acres irrigated	Remarks
								Depth to top (feet)	Thickness (feet)	Character of material		Feet below datum	Date		Yield (gpm)	Drawdown (feet)			
9/2-21H1	Martin Jepsin	Dr	1957	154	6	44	P, --	35	7	"Dirt," brown, firm	960	18	5- 7-57	J, 3/4	2½b	50	D	--	Lo, Pp 1/2 hr.
21H2	do.	Dr	1957	168	6	48½	P, --	45	1	Shale, brown	960	18	5-14-57	J, 3/4	2½b	50	D	--	Li, Pp 1 hr.
21N1	J. L. Wright	Dr	1955	47	6	45	B	33	14	Sand and gravel	720	10	12-12-55	--	40b	0	D	--	Li, Temp 50.
26F1	A. L. Bryant	Dr	1955	35	6	35	--	25	10	Gravel and sand	775	½	12-23-55	--	25b	6	D	--	Li, Temp 48.
27D1	North Santiam Plywood Co.	Dr	1966	252	12	94	P, 35-40, 43-58, 86-90	23 43 86	17 15 4	Gravel Sand and gravel with clay Gravel and sand	760	15	3-22-66	N	120	85	U	--	Li, FC, Pp 4 hr.
27F1	do.	Dr	1966	194	12	189	P, 36-80, 91-115, 169-182	46 91 169	34 24 13	Gravel and sand Gravel and sand with clay Gravel and sand	775	46	4-18-66	T, 50	500	74	Irr	--	Li, FC, Pp 10 hr.
36A1	do.	Dr	1962	149	12	149	P, 64-87, 130-149	64 127	23 22	Glacial boulders and gravel Gravel with some clay	850	63	7-30-64	T, 30	550	67	Ind	--	Li, FC, Pp 4 hr.
36A2	Frank Lumber Co.	Dr	1962	150	10	149	P, 80-120, 135-148	80 132	41 18	Gravel, coarse, and boulders do.	850	67	8-14-62	T, 30	400	73	Ind	--	Lo, FC.
9/3-30J1	Howard Fenner	Dr	1961	194	6	9	B	10	184	Tuffstone with layers of basalt	850	4½	9- 3-61	--	10-12f	0	D	--	Li, WL, H.
10/1W-3D1	Cecil Leffler	Dr	1957	58	8	6	B	24	1	"Bedrock"	625	--	--	--	2½	All	D	--	Li; water first found at 25-ft depth.
4J1	Carl Limbeck	Dr	1957	139	6	4	B	90 110 124 133	12 2 8 4	Basalt, seamy do. do. Sand, black	675	48	12-13-57	J, 2	10b	All	D,S	--	Li, FC, CA, Temp 54.
4M1	A. B. Leffler	Dr	1941	106	6	51	P, 45-51	28 98	25 8	"Rock, red" "Rock, honeycombed"	555	20	--	J, 2½	15e	--	Irr	1	Li.

Table 1.--Records of representative wells in the lower Santiam River basin, Oregon--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		Type of pump and hp	Well performance		Use	Acres irrigated	Remarks
								Depth to top (feet)	Thickness (feet)	Character of material		Feet below datum	Date		Yield (gpm)	Drawdown (feet)			
10/1W-5L1	A. M. Hendrickson	Dr	1951	225	10	110	P, 0-110	147 218	<1 <1	Gravel in "rock" do.	400	35.13	6-15-66	T, 30	670	28	Irr	70	Li, FC, WL.
7P1	Karl Tomasek	Dr	1955	56½	6	45½	B	29 45	16 11½	Sand, black Shale, blue	310	4	10- 3-55	--	40b	2	D	--	Li; water first found at 10 ft.
7Q1	Gus Leder	Dr	1954	20	8	20	P, 17-20	9	11	Gravel	310	4	--	--, 3	75e	8	Irr	4	Lo.
7R1	Scio School Dist.	Dr	1960	25	8	25	P, 9-25	7 20	13 5	Gravel with sand Boulders and small rock	310	5	3-25-60	--	40b	10	Irr	--	Lo, FC, Pp 1/4 hr.
18A1	City of Scio	Dr	--	198	12	--	--	--	--	--	305	20	6-22-62	--	275	140	PS	--	FC, Pp 5 hr.
18A2	do.	Dr	1939	215	12 8	203 159-210	P, 159-210	--	--	Sand and gravel lenses in blue clay	305	11	--	T, 40	600	140	PS	--	
18B1	do.	Dr	1946	205	12	205	--	--	--	--	305	19	--	T, 30	585	90	PS	--	
19R1	John Lowers	Dr	1964	150	6	40	B	40 122	20 5	Sandstone, blue Claystone, gray	465	22	9-16-64	S, 5	90	60	D,Irr	--	Li, FC, Pp 3½ hr.
28F1	Grant Farris	Dr	1958	172	8	27	B	50	100	Sandstone	340	5.56	6-15-66	J, 1	35b	40	S	--	Li, FC, WL, Pp 1/2 hr.
29D1	K. E. Mott	Dr	1966	90	4	20	B	19	71	Sandstone and sand, gray	425	7	8- 4-66	--	15b	30	D	--	Li, Pp 1 hr, Temp 54.
33R1	O. L. Wood	Dg	1958	12	600	--	--	4	8	Gravel	320	4	8- -58	C, 7½	--	--	Irr	--	Li.
35H1	Christian Rebman	Dr	1964	208	8	19	B	--	--	Claystone and some "rock"	355	15½	7-23-64	S, 30	50b	15	Irr	--	Li, FC, Pp 1 hr.
10/2W-1A1	Southern Pacific Co.	Dr	1928	51	6	34	P, 28-34	28	5	Gravel	355	5	8-30-28	H	20e	All	--	--	Li, FC, Pp 5 hr.
1B1	Alice Music	Dr	1966	35	6	35	B	25	10	Gravel, cemented	342	4	5-27-66	T, 3/4	40b	16	D	--	Li, FC, CA, Temp 54, Pp 1 hr.
4B1	A. W. Unger	Dr	1952	80	8	--	--	--	--	--	295	10	--	T, 15	240e	15	Irr	31.4	
4C1	Gale Hart	Dr	1959	36	8	36	P, 21-36	10	26	Sand and gravel	285	10	4-16-59	C, 10	120	15	Irr	25	Li, FC, Pp 3 hr.
4D1	do.	Dr	1950	30	8	27	--	12	15	do.	280	12	--	--, 15	150	13	Irr	40	Lo.
4F1	H. T. Snoddy	Dr	1953	27.8	10	27	--	--	--	--	285	14	--	--, 15	350e	--	Irr	8	

Table 1.--Records of representative wells in the lower Santiam River basin, Oregon--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		Type of pump and hp	Well performance		Use	Acres irrigated	Remarks
								Depth to top (feet)	Thickness (feet)	Character of material		Feet below datum	Date		Yield (gpm)	Drawdown (feet)			
10/2W-4K1	P. F. Pletzer	Dr	1957	24	10	23.5	P, 11-23	10	14	Gravel	280	9.6	7-21-66	C, 15	100b	0	Irr	15	Lo.
4L1	A. Hayes	Dr	1939	29	8	29	P, 14-29	--	--	--	278	--	--	--, 25	750e	--	Irr	33.3	
4L2	H. T. Snoddy	Dr	1953	38	10	27	--	--	--	--	280	10	--	--, 20	450e	--	Irr	26	
4M1	A. Hayes	Dr	1939	29	8	29	P, 14-29	--	--	--	278	--	--	--, 25	750e	--	Irr	18.7	
4N1	E. L. Pletzer	Dr	1941	30	8	30	P, 24-30	--	--	Sand and gravel	276	13	--	C, 20	500	1	Irr	29.1	
4N2	P. F. and E. L. Pletzer	Dr	1939	30	8	30	P, 24-30	--	--	do.	276	13	--	C, 15	350	0	Irr	35.42	Aquifer test in 1958.
4P1	D. T. Vose	Dr	1939	18	10	18	--	--	--	do.	276	10	--	C, 20	450e	½	Irr	47	
5J1	McGill Bros.	Dr	1941	30	8	30	P, 15-30	10	--	Gravel	277	10	--	C, 25	600	15	Irr	32-50	
5J2	do.	Dr	1947	40	8	40	P, 25-40	--	--	Sand and gravel	277	10	--	C, 15	400	18	Irr	52.2	
5P1	Laura M. Thomas	Dr	1952	50	8	--	--	--	--	--	275	8	--	--, 38	200	16	Irr	12	
5P2	Ernest Pletzer	Dr	1964	50	8	48	P, 18-48	27	5	Sand and gravel	276	9	10-29-64	N	105	25	U	--	Li, FC, Pp 1 hr.
5Q1	do.	Dr	1958	38	8	38	P, 28-38	36	2	Gravel and clay	278	10	6-14-58	N	30	--	U	--	Li, FC.
6C1	O. A. Hall	Dr	1952	22	10	22	P, 10-22	6	16	Gravel	260	6	--	--, 10	200	12	Irr	30	Li.
6J1	J. K. Kihs	Dr	1945	69	6	64	B	5	50	Gravel, "hard"	274	5	--	J, 1	25	40	Irr	2	Li.
7N1	L. C. Henion	Dr	1947	21	8	21	P, 15-21	--	--	Sand and gravel	245	12	--	--, 10	250	4	Irr	13.2	FC.
7N2	S. B. Ferguson	Dr	1951	26	10	26	P, 16-26	6	20	Gravel	248	6	--	C, 30	460e	--	Irr	112.7	Lo.
7N3	D. T. Henion	Dr	1957	23	8	23	P, 11-23	18	5	Gravel and sand	245	15	9- 2-57	N	100	6	U	--	Li, FC, Pp 3 hr.
7P1	E. E. Goin	Dr	1940	26	8	26	--	--	--	--	245	10	--	C, 10	256e	--	Irr	13.3	
7P2	O. L. Oldenburg	Dr	1950	22	6	22	P, --	12	10	Sand, gravel, and boulders	245	12	--	C, 10	200e	2½	Irr	33.4	Lo.
7Q1	P. G. Smith	Dg	1937	6	48	--	--	--	--	Gravel	250	0	--	C, 10	190e	2/3	Irr	47.5	
7Q2	do.	Dn	1950	24	4	24	P, 18-24	--	--	--	255	11	--	C, 10	158e	--	Irr	47.5	
8E1	Gary Barna	Dr	1965	61	6	61	P, 55-60	57	4	Gravel, silty	250	25	10-18-65	--	25b	14	D	--	Li, FC, Pp 1 hr.

Table 1.--Records of representative wells in the lower Santiam River basin, Oregon--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		Type of pump and hp	Well performance		Use	Acres irrigated	Remarks
								Depth to top (feet)	Thickness (feet)	Character of material		Feet below datum	Date		Yield (gpm)	Drawdown (feet)			
10/2W-8J1	William Uppstad	Dn	1941	21	4	21	P, --	--	--	--	270	8.86 10	S- 6-66 --	C, 15	350e	--	Irr	40	FC.
8N1	do.	Dr	1955	21	10	21	P, 14-21	--	--	--	255	12	--	C, 10	450e	7	Irr	30	Unused 1966.
8N2	do.	Dr	1957	21	10	21	P, 15-20	17	4	Gravel and sand	253	14	8-22-57	C, 15	450	1½	Irr	--	Li, FC, CA, WL, Temp 50, Pp 1 hr, H; replaced well 8N1.
8Q1	do.	Dr	1961	26½	10	26½	P, 20-25	18	8½	Sand and gravel	255	15	10- 3-61	C, 20	550	2	Irr	--	Lo, FC, Pp 2 hr, Temp 52.
8R1	do.	Dn	1947	24	4	24	--	--	--	--	274	12	--	C, 15	450e	4	Irr	60	Unused 1966.
8R2	do.	Dr	1959	28	10	28	P, 22-27	14	14	Gravel, large	274	15	11- -59	C, 15 plus C, 5	600	4	Irr	--	Lo, FC, Pp 3 hr; replaced well 8R1.
9B1	N. V. Shelby	Dr	1943	24	10	24	P, 12-24	--	--	--	276	14	--	C, 20	320e	--	Irr	34	
9C1	D. T. Vose	Dr	1939	30	10	30	--	--	--	Sand and gravel	273	6 2/3	--	C, 20	450e	0	Irr	43.5	
9D1	P. F. and E. L. Pletzer	Dr	1946	30	8	30	P, 24-30	--	--	do.	273	13	--	C, 20	500	1	Irr	77.5?	
9D2	do.	Dr	1956	28	8	28	P, 15-28	13	15	Sand, coarse, and gravel	273	13	6-13-56	C, 10	--	--	Irr	--	Li, FC.
10C1	Victor Chehak	Dg	1944	10	24	10	B	--	--	--	290	6	--	C, 15	360e	4	Irr	40	
10R1	G. L. Thurston	Dr	1949	64	10	62	P, 40-62	40 60	15 4	Gravel do.	301	17	--	T, 15	220	43	Irr	51	Li.
11C1	B. F. Sumption	Dg	1909	18	72	18	Brick lined	--	--	--	317	4	--	C, 5	178e	--	Irr	3.5	
11M1	D. W. Worden	Dr	1952	72	10	72	P, 60-72	--	--	--	305	12	--	--, 10	500	3	Irr	27	FC.
12N1	West Scio Fertilizer Co.	Dr	1965	63	6	60	P, 42-58	36	22	Gravel, cemented	305	18	11- 9-65	S, ½	35b	10	Ind	--	Li, FC, Pp 1 hr; backfilled to 61 ft.
14E1	Frank Senz	Dr	1961	100	10	82	P, 35-45, 62-82	38 52	6 30	Sand and gravel with clay Clay with coarse gravel	285	24	10-24-61	--	50	40	Irr	--	Li, FC, Pp 2 hr.
14G1	N. O. Anderson	Dr	1960	61	8	57	P, 49-57	45	10	Boulders with clay	300	18	7- 8-60	S, 3	60b	25	Irr	--	Lo, FC, Pp 1 hr.

Table 1.--Records of representative wells in the lower Santiam River basin, Oregon--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		Type of pump and hp	Well performance		Use	Acres irrigated	Remarks
								Depth to top (feet)	Thickness (feet)	Character of material		Feet below datum	Date		Yield (gpm)	Drawdown (feet)			
10/2W-15C1	D. A. Bell	Dr	1953	71	8	71	P, --	--	--	--	290	15	--	T, 7½	250	35	Irr	25	
15F1	Mrs. W. H. Faulkner	Dr	1948	27	10	20	P, 13-20	17	10	Sand and gravel	285	11½	--	C, 19	240e	--	Irr	13	Li.
17C1	Tessa Watkins	Dr	1944	21	10	21	P, 13-21	--	--	--	255	--	--	C, 10	300e	--	Irr	12.5	
17D1	do.	Dr	1962	27	10	27	P, 21-26	20	7	Gravel, large	251	14	2-20-62	C, 15	600	3	Irr	--	Li, Pp 2 hr.
17E1	do.	Dr	1940	21	10	21	P, 13-21	--	--	--	252	17	--	C, 20	400e	--	Irr	77.5	
17M1	F. E. Gates	Dr	1947	26	8	26	P, 14-26	--	--	--	250	3	--	C, 20	650	4	Irr	46.8	
17N1	M. C. Helms	Dr	1946	31	8	--	--	--	--	--	249	8	--	C, 20	650	8	Irr	42.7	
17N2	do.	Dr	1955	36	8	36	P, 24-36	--	--	--	249	8	--	C, 20	650	10	Irr	42.7	
18A1	Dale Eisenmann	Dr	1948	28	8	28	P, 18-28	--	--	--	251	8	--	C, 10	400e	3	Irr	18	
18C1	Mervin McGill	Dn	1945	25	4	25	P, 18-25	10	15	Gravel and sand	245	6 10	Spring Summer	C, 15	280e	--	Irr	24.33	Lo.
18C2	Roy Tilley	Dn	1945	21	4	21	P, 10-21	--	--	Sand and gravel	251	10	Summer	C, 5	120e	--	Irr	7½	
18C3	E. C. Hart	Dr	1952	28	6 4	25 28	P, 15-28	--	--	--	245	8	--	C, 10	200e	--	Irr	15	
18C4	do.	Dr	1966	23	8	23	P, 13-20	15	5	Gravel, brown, medium	245	15	8- 8-66	--	200	3	Irr	--	Lo, Pp 2 hr.
18D1	O. D. Stephenson	Dr	1940	20	8	20	--	--	--	--	245	--	--	C, 10	300e	--	Irr	14.3	
18D2	E. O. Kerr	Dr	1952	18	8	18	--	--	--	--	245	6	--	C, 15	300	1	Irr	12.9	Lo.
18D3	L. H. Marcum	Dr	1952	21	6	21	P, 15-21	--	--	Sand and gravel	245	14-16	--	C, 2	84e	--	Irr	2	
18E1	Mrs. W. O. Tillotson	Dn	1952	22	1½	22	B	--	--	--	240	--	--	C, 3	60e	--	Irr	5	
18E2	W. D. Folliett	Dr	1953	21	6	21	--	14	7	Gravel	240	12	--	C, 2	250e	--	Irr	5	Lo.
18E3	A. W. Winslow	Dr	1964	24	8	24	P, 11-24	17	7	Gravel, coarse, and sand	240	10	3- 9-64	--	--	--	Irr	--	Li, FC.
18F1	M. N. McGill	Dn	1944	25	4	25	P, 18-25	--	--	Gravel and sand	245	6 10	Spring Summer	C, 15	304e	--	Irr	35.67	

Table 1.--Records of representative wells in the lower Santiam River basin, Oregon--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		Type of pump and hp	Well performance		Use	Acres irrigated	Remarks
								Depth to top (feet)	Thickness (feet)	Character of material		Feet below datum	Date		Yield (gpm)	Drawdown (feet)			
10/2W-18F2	E. C. Hart	Dr	1945	48	10	32	P, 15-32	10	20	Gravel	245	10	--	C, 10	200e	--	Irr	15	"Bedrock" at 30 ft.
18G1	C. C. Hart, Jr.	Dr	1934	16	8	16	--	--	--	Gravel and sand	250	12	--	C, 10	200	1/2	Irr	25	
18G2	do.	Dr	1952	20	6	20	--	6	14	Sand and gravel	246	6	--	C, 10	180	1/2	Irr	20	Lo.
18H1	Dale Eisenmann	Dr	1947	25	8	25	P, 15-25	--	--	--	255	6	--	C, 15	450	2	Irr	44	
18J1	do.	Dr	1950	28	8	28	P, 18-28	--	--	--	250	10	--	C, 10	400e	3	Irr	24.5	
18J2	do.	Dr	1955	28	6	28	P, 18-28	--	--	--	250	10	--	C, 5	250e	6	Irr, Ind	5	
18L1	E. C. Hart	Dr	1945	32	10	32	P, 15-32	--	--	Gravel	235	7	--	C, 15	300e	--	Irr	25	
18L2	C. C. Hart, Jr.	Dr	1952	26	8	26	--	12	14	Sand and gravel	240	12.2	--	C, 15	250	10	Irr	30	
18M1	Yancy McGill	Dr	1937	21	8	21	--	--	--	--	235	15±	--	C, 5	400e	--	Irr	6	
18M2	Herman Kieper	Dr	1950	32	8	32	P, --	--	--	Gravel	230	20	--	C, 20	400e	6	Irr	25	
18M3	do.	Dr	1950	32	8	32	P, --	--	--	do.	235	20	--	C, 10	256e	8	Irr	14	
18M4	do.	Dr	1952	32	8	32	P, --	--	--	do.	230	20	--	C, 10	256e	8	Irr	14	
10/2W-19A1	Dale Eisenmann	Dr	1958	35	8	30	P, 20-30	18 25	7 3	Clay, blue, sandy Gravel and sand, black	245	--	--	N	<125e	--	U	--	Lo, FC; iron taste and color in water from gravel beneath blue clay.
19A2	do.	Dr	1958	27½	8	26	P, 16-26	11	14	Sand and gravel, black	245	9	12- 9-58	N	125	15	U	--	Lo, FC, Pp 4 hr.
19C1	do.	Dr	1954	28	8	28	P, 18-28	--	--	--	240	6	--	C, 20	700e	2	Irr	47	
19C2	do.	Dr	1957	30	8	27	P, 15-27	12 22½	10 4½	Sand and gravel Gravel and sand	240	9	9-27-57	--	400	1	Test	--	Li, FC, Pp 1 hr.
19F1	M. C. Helms	Dr	1942	21	8	21	P, 9-21	--	--	--	225	6	--	C, 20	650	4	Irr	40.6	
19G1	R. E. Porter	Dr	1943	24	4	24	P, 16-24	--	--	--	235	10	--	C, 10	400e	3	Irr	29.8	
19H1	O. E. Sheffield	Dr	1945	22	12	22	P, 18-22	--	--	--	235	7	--	C, 15	300e	--	Irr	30	
19J1	Ellis Hamby	Dr	1943	25	12	25	P, 20-25	--	--	--	235	8	--	C, 20	400e	--	Irr	35	
19K1	M. C. Helms	Dr	1942	21	8	21	P, 11-21	--	--	--	226	2	--	C, 10	1,000	1	Ind	--	

Table 1.--Records of representative wells in the lower Santiam River basin, Oregon--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		Type of pump and hp	Well performance		Use	Acres irrigated	Remarks
								Depth to top (feet)	Thickness (feet)	Character of material		Feet below datum	Date		Yield (gpm)	Drawdown (feet)			
10/2W-19K2	M. C. Helms	Dr	1943	30	8	30	P, 18-30	--	--	--	226	10	--	C, 10	600e	3	Irr	2.2	
19K3	do.	Dr	1945	21	8	21	P, 9-21	--	--	--	227	7	--	C, 10	650	2	Irr	19	
19K4	do.	Dr	1951	26	8	26	P, 14-26	--	--	--	227	7	--	C, 7½	650	2	Irr	5.7	
19K5	do.	Dr	1964	28	8	28	P, 17-28	10	17	Sand and gravel	227	10	3-31-64	C, 7½	400	2/3	Ind, Irr	--	Lo, FC, Pp 1 hr.
19L1	do.	Dr	1942	21	8	21	P, 9-21	--	--	--	225	6	--	C, 15	650	3	Irr	24.9	
19L2	do.	Dr	1942	21	8	21	P, 9-21	--	--	--	225	8	--	C, 10	650	2	Irr	26	
19M1	do.	Dr	1945	28	8	28	P, 16-28	--	--	--	226	6	--	C, 15	650	4	Irr	24.4	
19M2	do.	Dr	1951	21	8	21	P, 9-21	--	--	--	225	6	--	C, 10	300	8	Irr	12.3	
19N1	do.	Dr	1951	20	8	20	P, --	--	--	--	225	5	--	C, 15	650	8	Irr	21.2	
19P1	N. D. Bradley	Dr	1942	20	6	20	P, 12-20	12	8	Gravel	230	12	--	C, 15	650	6	Irr	70	Lo, wells 19P1 and 19Q1 Pt.
19Q1	do.	Dr	1940	20	8	20	P, 12-20	10	10	do.	230	6	--	C, 15	650	12	Irr	--	Lo, wells 19P1 and 19Q1 Pt.
19Q2	do.	Dr	1966	22	10	22	P, 18-22	15 19	1 3	Gravel and sand do.	230	5	5-12-66	C, 10	300	1½	Irr	10	Li, FC, CA, Pp 1 hr.
19R1	Ellis Hamby	Dr	1943	30	12	30	P, 20-30	--	--	--	235	8	--	C, 20	400e	--	Irr	26	
20D1	R. P. Richardson	Dr	1955	30	12	30	P, 20-30	--	--	--	245	12	--	C, 20	600	15	Irr	39	
20E1	do.	Dr	1950	30	12	30	P, 20-30	--	--	--	240	15	--	C, 20	600	19	Irr	47	
20N1	L. W. Faulkner	Dr	1950	20	8	20	P, 14-20	--	--	--	230	10	--	C, 15	300e	--	Irr	15	
21R1	H. C. Robertson	Dr	1960	94	8	60	P, 25-59	34 41 55	2 7 4	Sand and gravel Gravel Sand and gravel	262	3.94	6-15-66	N	60b	12	U	--	Li, FC, WL, Pp 1 hr, H.
22G1	Scio Ranches, Inc.	Dr	1966	165	12	141	P, 35-44, 46-59, 119-135	35 46 119	9 13 16	Gravel Sand, brown, and gravel Gravel and sand	265	3	9-19-66	--	600	93	Irr	--	Li, FC, Pp 3 hr.
23D1	R. N. Goar	Dg	1957	14	36	14	P, 9-14	9	5	Gravel	275	5	2-28-58	C, 3	95	13	Irr	--	Pp 8 hr.
23K1	R. E. Lambert	Dg	1949	21	36	18	--	--	--	do.	335	8	--	C, 5	80	8	Irr	8	

Table 1.--Records of representative wells in the lower Santiam River basin, Oregon--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		Type of pump and hp	Well performance		Use	Acres irrigated	Remarks
								Depth to top (feet)	Thickness (feet)	Character of material		Feet below datum	Date		Yield (gpm)	Drawdown (feet)			
10/2W-24K1	J. S. Ruby	Dr	1952	257	8	150	B	--	--	--	360	250(?)	--	T, 10	60	100(?)	Irr	25	
27M1	L. D. Chrisman	Dg	1946	17	48	--	Wooden	--	--	--	259	11	--	C, 15	105e	--	Irr	25	
28J1	L. J. Metcalf	Dr	1947	30	12	30	P, 12-30	--	--	--	255	12	--	C, 10	90e	12	Irr	17.6	
28J2	do.	Dr	1949	27	10	27	P, 12-27	--	--	--	255	7.95	5- 6-66	C, 10	90e	12	Irr	16.6	
29L1	Elijah Hayes	Dg	1937	13	4	13	P, 2-13	--	--	--	245	3	--	C, 15	300e	12	Irr	21.9	
29L2	D. W. Blakely	Dn	1945	24	3½	24	P, 18-24	11	13	Gravel and boulders	245	8	--	C, 15	350e	12	Irr	11.2	Li.
29L3	Harvey Freitag	Dn	1949	20	5½	20	P, 17-20	--	--	--	245	8	--	C, --	300e	5	Irr	12.3	
29M1	F. W. Groves	Dg	1929	19	36	19	Tile	12	7	Gravel and sand	245	6	--	C, 15	1,000	3	Irr	47	Lo.
29N1	K. L. Harman	Dr	1952	36	6	36	P, 30-36	--	--	--	245	18	--	C, 1	15e	--	Irr	6	
29Q1	P. R. Smith	Dr	1947	21	6	21	P, 13-21	--	--	--	245	10	--	C, 15	400e	3	Irr	29.6	
29Q2	do.	Dr	1957	21	8	21	P, 14-21	12	9	Sand and gravel	245	6	4-22-57	C, 15	--	--	Irr	--	
30F1	Elmer Hayerly	Dr	1950	30	10	30	P, 22-30	--	--	--	230	10	--	C, 20	450	3	Irr	46	
30J1	Harvey Freitag	Dn	1951	19	4	19	P, 16-19	--	--	--	245	8	--	C, 10	400e	3	Irr	20	
30J2	do.	Dn	1951	14	4	14	P, 11-14	--	--	--	245	8	--	--	130e	4	Irr	9.3	
30K1	G. D. Roth	Dr	1945	30	8	30	P, 22-30	--	--	--	240	8	--	C, 15	350e	--	Irr	79.4	
30L1	O. W. Martin	Dr	1945	31	8	31	P, 25-31	--	--	--	230	15	--	C, 15	270e	4	Irr	19.9	
30L2	L. J. Porter	Dr	1949	26	6	26	B	--	--	--	235	14	--	--	600e	4	Irr	42.4	
30M1	W. M. Stuart	Dn	1950	22	4	--	--	--	--	--	226	14	--	C, 10	160e	--	Irr	32.8	
30N1	Zelma Bond	Dr	1965	140	10	52	P, 39-52	45	6	Sand, black, and gravel	230	4 12.2	6- 7-65 11-11-65	--	48	50	Irr	--	Li, FC, Pp 1 hr.
30P1	L. J. Bond	Dr	1948	23½	6	23½	P, 19½-23½	--	--	--	235	12	--	C, 5	72e	--	Irr	30	
30Q1	G. D. Roth	Dr	1947	32	8	32	P, 24-32	--	--	Gravel	240	8	--	C, 15	350e	--	Irr	79.4	
30R1	Harry Bose	Dr	1966	127	10	121	P, 109-121	117	8	Sand, black	245	7½	5-19-66	T, 25	130b	4	Irr	--	Li, FC, Pp 1 hr.
31H1	O. H. Cox	Dr	1951	37	6	30	P, 20-30	--	--	--	245	20	--	C, 3	60e	--	Irr	8	

Table 1.--Records of representative wells in the lower Santiam River basin, Oregon--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		Type of pump and hp	Well performance		Use	Acres irrigated	Remarks
								Depth to top (feet)	Thickness (feet)	Character of material		Feet below datum	Date		Yield (gpm)	Drawdown (feet)			
10/2W-32A1	M. H. Gildersleeve	Dr	1952	89	10	89	P, 79-89	--	--	--	246	8	--	T, 10	270e	2	Irr	28.9	
32D1	Sam Kennel	Dr	1955	34	8	34	P, 30-34	--	--	--	246	9	--	C, 20	150	9	Irr	27.9	
32F1	Clarence Cox	Dr	1956	26	8	26	P, 16-25	15	11	Gravel	247	10	3- -56	--	--	--	Irr	--	Li.
32H1	Plagmann Farms	Dr	1935	22	12	22	P, 17-22	--	--	--	249	4	--	C, 20	800e	8	Irr	42	
32J1	do.	Dr	1940	20	12	20	P, 15-20	--	--	--	251	8	--	C, 20	800e	10	Irr	40	
32K1	do.	Dr	1943	8	8	8	P, 3-8	--	--	--	250	2	--	C, 15	1,000e	3	Irr	40	
32K2	do.	Dg	1944	20	--	--	Trench	--	--	--	250	6	--	C, 15	800e	4	Irr	32	
33A1	L. C. Stucker	Dr	1959	28	10	28	P, 22-27	20	4	Gravel	251	14	8-14-59	--	80	10	Irr	--	Li, Pp 2 hr, Temp 54.
33B1	F. S. Perry	Dr	1940	30	10	30	P, 12-30	--	--	--	255	10	--	C, 10	300e	5	Irr	25.2	
33G1	P. J. Braden	Dr	1948	28	10	28	P, 14-28	--	--	--	251	10	--	C, 10	150	18	Irr	31	
33H1	H. A. Brown	Dr	1961	56	8	40	P, 10-40	10 53	25 3	Gravel and sand Sand and gravel	250	8	8- 5-61	C, 10	200 400	14½ 12	Irr	--	Lo, FC, Pp 8 hr.
33R1	P. W. Drushella	Dr	1951	33	10	33	P, 25-33	--	--	--	264	13	--	C, 20	600e	20	Irr	90	
10/3W-1A1	Jesse Roth	Dr	1958	28	12	28	P, 20-28	20	8	Sand and gravel	265	--	--	--	--	--	Irr	--	Lo.
1A2	Gerald Sheffield	Dr	1965	26	4	25	P, 23-25	23	2	Gravel and sand	250	32	12-13-65	J, 1/2	20b	8	D	--	Li, FC, Pp 1 hr, Temp 53.
1N1	Jefferson High School	Dr	1952	200	--	--	--	--	--	--	226	--	--	N	--	--	U	--	Li; "dry hole."
2B1	Lewis Earll	Dr	1964	280	6	208	P, 29-30	23 255	7 5	Sandstone, brown Shale, brown	226	8	10-17-64	--	8b	12	D	--	Li, FC, Pp 1 hr.
2E1	F. H. Miller	Dr	1948	25	8	25	P, 15-25	15	10	Gravel	220	15	--	C, 10	350	0	Irr	21.85	Lo.
2F1	E. P. Miller	Dr	1960	26½	10	26½	P, --	24	2½	do.	215	5	4-14-60	C, 10	600	14	Irr	--	Lo, Pp 2 hr, Temp 51.
2L1	F. H. Miller	Dr	1938	25	8	25	P, 15(?)-25	15	10	do.	220	15	--	C, 15	400	0	Irr	54.15	Lo.
2M1	do.	Dr	1940	30	8	30	P, 15-25	15	10	do.	215	15	--	C, 15	400	4	Irr	15	Li.
3A1	D. L. Turnidge	Dr	1946	40	12	40	P, 32-40	--	--	Sand and gravel	205	16	--	C, 15	300e	--	Irr	74.75	Wells 3A1, 3A2, and 3A3 Pt.

Table 1.--Records of representative wells in the lower Santiam River basin, Oregon--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		Type of pump and hp	Well performance		Use	Acres irrigated	Remarks
								Depth to top (feet)	Thickness (feet)	Character of material		Feet below datum	Date		Yield (gpm)	Drawdown (feet)			
10/3W-3A2	D. L. Turnidge	Dr	1946	36	12	36	P, 30-36	16	20	Sand and gravel	205	16	--	C, 7½	150e	--	Irr	--	Lo, wells 3A1, 3A2, and 3A3 Pt.
3A3	do.	Dr	1952	32	12	32	P, 26-32	--	--	--	205	16	--	C, 7½	150e	--	Irr	--	Wells 3A1, 3A2, and 3A3 Pt.
3B1	do.	Dr	1936	40	8	40	P, 32-40	16	24	Sand and gravel	205	16	--	C, 10	180e	--	Irr	--	Lo, wells 9/3W-34K2, 34Q1, 34Q2, and 10/3W-3B1 Pt.
3B2	do.	Dr	1959	31	10	31	P, 25-30	16	15	Gravel	205	16.2	12-15-65	--	700	1½	Irr	--	Li, FC, Pp 3 hr.
3E1	Elton Higbee	Dr	1946	24	10	20	P, 12-20	13	7	do.	205	13.06	8-19-65	C, 15	600e	3	Irr	52	Lo.
3E2	do.	Dr	1948	27	8	27	P, 23-27	--	--	--	200	12	--	C, 7½	300e	2	Irr	15.2	
3F1	J. L. Stiles	Dr	p1951	22	10	22	P, 15-22	15	7	Gravel	205	15	--	--, 10	250	0	Irr	14	Lo.
3H1	Albert Gurgurich	Dr	1945	32	10	32	P, 20-32	15	17	do.	205	13	--	C, 20	500	0	Irr	52.9	Lo.
3H2	D. L. Turnidge	Dr	1959	30	10	29	P, 22-28	14	15	Sand and gravel	205	14	10-23-59	--	600	1	Irr	--	Lo, FC, Pp 2 hr, Temp 52.
3K1	do.	Dr	1954	30	10	30	P, 24-30	--	--	do.	195	16	--	C, 10	180e	--	Irr	60.5	
3L1	J. L. Stiles	Dr	1956	22	10	22	P, 15-22	15	7	Gravel	201	15	--	--, 7½	250	0	Irr	14	Lo.
3M1	William Schwab	Dr	1942	23	10	23	P, 18-23	18	5	do.	201	11	--	C, 15	300	3	Irr	28	Li.
3M2	Clarence MacLean	Dr	1950	25	8	25	P, 20-25	--	--	--	205	12	--	C, 5	150e	--	Irr	20	
3P1	J. L. Stiles	Dr	1945	22	10	22	P, 15-22	15	7	Gravel	205	15	--	--, 10	250	0	Irr	12	Lo.
3R1	J. A. Wickert	Dr	1948	30	8	30	P, 22-30	12	18	do.	205	12	--	C, 10	400	0	Irr	20	Lo.
3R2	F. H. Miller	Dr	1951	30	10	30	P, 20-30	15	15	do.	205	12	--	C, 15	400	0	Irr	35.48	Lo.
4B1	Carl Tonack	Dr	1951	25	8	24	P, 16-24	20	4	River gravel	195	11½	--	C, 15	457	16	Irr	38	
4C1	G. Haworth	Dn	1948	25	4	25	P, 20-25	--	--	--	195	8	--	C, --	400e	15	Irr	27.8	
4C2	E. C. Chambers	Dn	1950	25	6	25	P, 17-25	--	--	--	190	12	--	C, 10	325e	8	Irr	27	
4D1	A. A. Hoefer	Dn	1938	21	5	21	P, 15-21	10	11	Gravel, sand, and boulders	192	10	--	C, 10	400	4	Irr	18.5	Lo.
4D2	D. S. Chambers	Dr	1957	27	8	27	P, 17-27	7	20	Gravel	192	7	4-23-57	C, 10	85b	0	Irr	--	Lo, FC.

Table 1.--Records of representative wells in the lower Santiam River basin, Oregon--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		Type of pump and hp	Well performance		Use	Acres irrigated	Remarks
								Depth to top (feet)	Thickness (feet)	Character of material		Feet below datum	Date		Yield (gpm)	Drawdown (feet)			
10/3W-4D3	D. S. Chambers	Dr	1965	29	10	29	P, 18-29	19	10	Gravel	190	8.72	12-13-65	--	450	5	Irr	--	Lo, FC, Pp 1 hr.
4F1	E. C. Chambers	Dr	1950	35	8	32	P, 24-32	--	--	--	190	8	--	C, 15	500e	10	Irr	29.4	
4F2	G. Haworth	Dn	1953	30	4	30	P, 20-30	--	--	--	190	--	--	C, 15	400e	15	Irr	28.3	
4G1	Carl Tonack	Dn	1939	24	3	24	P, 19-24	20	4	Gravel	200	10	--	C, 10	210	14	Irr	21	Lo.
4G2	do.	Dr	1960	26	8	26	P, 12-23½	12 22	2 4	do. do.	200	4.10	5- 6-66	C, 15	--	--	Irr	--	Li, FC, Temp 55.
4H1	E. Higbee and H. Turnidge	Dr	1946	22	4	18	P, 13-18	10	12	do.	200	10	--	C, 10	300e	3	Irr	10.5	Lo.
4H2	do.	Dr	1950	22	8	22	P, 18-22	9	13	do.	195	5	--	N	350e	3	U	--	Lo; well 4H3 replaced this well.
4H3	do.	Dr	1957	24½	10	24	P, 10-24	19	5½	do.	200	8 12.5	4-22-57 8-19-65	C, 15	600	1	Irr	18.4	Lo, FC, Pp 2 hr.
4H4	Elton Higbee	Dr	1959	22	10	22	P, 16-21	14	8	do.	199	10.25 12	5- 3-66 10-15-59	C, 10	--	--	Irr	--	Lo, FC.
4J1	E. Higee and A. Bowen	Dr	1952	25	8	25	P, 17-25	--	--	--	205	9	--	C, 10	400	1	Irr	18.5	
4K1	Charles Grizzel	Dn	1945	24	4	24	P, 14-24	--	--	--	195	--	--	C, 10	160e	1	Irr	45.5	Wells 10/3W-4K1 and 4K2 Pt.
4K2	do.	Dr	1948	24	8	24	P, 12-24	--	--	--	195	--	--	C, 15	420e	1	Irr	--	Wells 10/3W-4K1 and 4K2 Pt.
4L1	G. P. Nissen	Dr	1940	25	4	25	--	--	--	--	185	--	--	C, 10	135e	--	Irr	12(?)	
4M1	A. A. Hoefer	Dn	1940	12	8	15	P, 7-15	5	10	Gravel, sand, and boulders	195	5	--	C, 10	500	3½	Irr	25	Lo.
4N1	do.	Dn	1941	20	4	20	P, 14-20	--	--	Sand and gravel	196	8	--	C, 10	250e	--	Irr	22.5	Dug well yielded 1,000 gpm before silted by flood and forced present well to be driven.
4N2	do.	Dn	1943	26½	4	26½	P, 20-26½	14	12½	Gravel, sand, and boulders	190	14	--	C, 10	400	5	Irr	22	Lo.
4N3	V. H. Hoefer	Dn	1952	30	5	30	P, 28½-29½	22	8	Gravel	190	14	--	--, 1	400	4	Irr	1	Lo.

Table 1.--Records of representative wells in the lower Santiam River basin, Oregon--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		Type of pump and hp	Well performance		Use	Acres irrigated	Remarks
								Depth to top (feet)	Thickness (feet)	Character of material		Feet below datum	Date		Yield (gpm)	Drawdown (feet)			
10/3W-4P1	F. L. Holt	Dr	1948	30	12	30	P, 20-30	--	--	--	200	12	--	C, 20	600	17	Irr	42.6	
4P2	do.	Dr	1960	25	8	25	P, 19-24	12 22	10 3	Gravel and sand Gravel	199	11.92	12-14-65	C, 10	600	2	Irr	--	Lo, FC, Pp 3 hr, Temp 52.
4R1	Charles Grizzel	Dr	1945	27	8	27	P, 15-27	--	--	--	200	--	--	C, 10	200e	2	Irr	17.5	
4R2	E. Higbee and A. Bowen	Dr	1946	22	5	22	P, 14-22	--	--	--	200	4	--	C, 10	300	2	Irr	9.5	
5A1	G. P. Grizzel	Dn	1950	26	4	26	P, 22-26	--	--	--	190	8	--	C, 15	350e	--	Irr	17.4	
5A2	Myron and Ballard Ingraham	Dr	1953	25	4	25	P, 15-25	--	--	--	190	--	--	C, 10	300e	3	Irr	18.5	
5A3	do.	Dr	1959	27	8	27	P, 11 3/4-27	8	19	Gravel	190	7½	3- 6-59	--	90b	0	Irr	--	Lo.
5B1	L. C. Henion	Dn	1943	23	4	23	P, 17-23	--	--	--	185	12	--	C, 10	250e	5	Irr	8.3	
5B2	do.	Dn	1944	25	4	25	P, 19-25	--	--	--	185	14	--	C, 10	250e	6	Irr	17.3	
5B3	Jack Pesheck	Dr	1952	23	10	23	B	--	--	--	180	15	--	C, 10	180e	--	Irr	17	
5C1	A. B. Davis	Dr	1943	20	6	20	P, 16-20	--	--	--	185	--	--	C, 15	200e	--	Irr	50	Wells 10/3W-5C1 and 5C2 Pt.
5C2	do.	Dr	1943	21	6	21	P, 15-21	--	--	--	185	10	--	C, 15	200e	--	Irr	--	Wells 10/3W-5C1 and 5C2 Pt.
5C3	Perry Davis	Dr	1963	28½	10	28(?)	P, 21½-26½	20	8	Gravel and sand	180	12.88	5- 3-66	C, 15	550	2	Irr	--	Lo, FC, Pp 2 hr, Temp 52.
5D1	Heirs of V. M. De Coster	Dr	1949	30	8	30	P, 24-30	--	--	--	180	12	--	C, 15	300e	--	Irr	30	
5E1	do.	Dr	1947	28	8	28	P, 22-28	--	--	--	180	12	--	C, 15	300e	--	Irr	30	
5F1	Perry Davis	Dr	1959	24	8	24	P, 19-23	19	5	Gravel	185	11.22	5- 3-66	C, 25	500	5	Irr	--	Lo, FC, Pp 2 hr, Temp 51.
5G1	L. C. Henion	Dn	1943	27	4	27	P, 21-27	--	--	--	190	13	--	C, 10	250e	5	Irr	28.1	
5G2	Jack Pesheck	Dn	1948	23	4	23	P, 15-23	--	--	--	185	15	--	C, 15	180e	--	Irr	29	
5H1	Myron and Ballard Ingraham	Dr	1951	25	8	25	P, 15-25	--	--	--	185	--	--	C, 10	400e	2	Irr	20.7	

Table 1.--Records of representative wells in the lower Santiam River basin, Oregon--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		Type of pump and hp	Well performance		Use	Acres irrigated	Remarks
								Depth to top (feet)	Thickness (feet)	Character of material		Feet below datum	Date		Yield (gpm)	Drawdown (feet)			
10/3W-5H2	Myron and Ballard Ingraham	Dr	1959	28	8	28	P, 14-28	8	20	Sand and gravel	185	8 11.97	3- 4-59 12-13-65	C, 10	80b	0	Irr	--	Lo, FC.
5J1	do.	Dr	1950	25	4	25	P, 15-25	--	--	--	190	--	--	C, 10	300e	3	Irr	18.7	
5K1	E. C. Chambers	Dn	1944	22	4	22	P, 14-22	--	--	--	190	12	--	C, 10	300e	8	Irr	20.2	
5K2	do.	Dn	1944	22	4	22	P, 14-22	--	--	--	190	12	--	C, 10	300e	8	Irr	17.1	
5K3	Jack Pesheck	Dn	1950	21	4	21	B	--	--	--	185	15	--	C, 5	90e	--	Irr	6	
5K4	do.	Dr	1959	25	6	25	P, 21-24	19	6	Gravel	180	12.6	8- 6-65	C, 5	200	8	Irr	--	Li, FC, CA.
5L1	Arthur Davis	Dn	1942	21	4	21	P, 15-21	--	--	--	185	10	--	C, 20	400e	--	Irr	49	
5M1	Heirs of V. M. De Coster	Dn	1936	31	8	31	P, 25-31	--	--	--	180	17	--	C, 20	300e	--	Irr	45	
5N1	E. H. Chambers	Dr	1951	30	10	30	P, 24-30	--	--	--	185	9	--	C, 15	400e	12	Irr	33	
5N2	Heirs of V. M. De Coster	Dr	1952	30	6	30	P, 24-30	--	--	--	180	17	--	C, 15	300e	--	Irr	18	
5P1	Albert Harnisch	Dr	1938	26	8	26	P, 14-26	--	--	--	185	14	--	C, 15	400e	5	Irr	27.8	
5P2	A. B. Davis	Dn	1941	24	4	24	P, 18-24	--	--	--	185	10	--	C, 10	100e	--	Irr	12	
5Q1	Albert Harnisch	Dr	1938	26	6	26	P, 16-26	--	--	--	190	9	--	C, 15	400e	3	Irr	30.6	
5Q2	W. L. Harnisch	Dr	1944	24	8	24	P, 14-24	--	--	--	190	9	--	C, 10	400e	2	Irr	20.2	
5R1	do.	Dn	1937	27	4	27	P, 18-27	--	--	--	190	9	--	C, 15	400e	6	Irr	27.3	
5R2	Henry Harnisch	Dn	1938	23	4	23	P, 10-23	--	--	--	190	12	--	C, 10	250e	5	Irr	10.7	
6A1	C. F. Royer	Dr	1947	22	10	22	P, 17-22	--	--	--	183	10	--	C, 10	400e	15	Irr	17.3	
6A2	A. Edwards	Dr	1958	25	10	25	P, 10-24	14	11	Gravel	180	12	4-11-58	--	--	--	Irr	--	Lo.
6B1	H. J. Snodgrass	Dr	1943	28	8	28	--	--	--	--	180	--	--	C, 16	350e	--	Irr	36.6	
6B2	do.	Dr	1945	24	10	24	P, 14-24	--	--	--	180	9	--	--, 20	400e	--	Irr	39.1	
6F1	N. L. Grate	Dr	1944	26	10	26	P, 23-26	--	--	--	180	12	--	C, 30	350e	--	Irr	45.3	

Table 1.--Records of representative wells in the lower Santiam River basin, Oregon--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		Type of pump and hp	Well performance		Use	Acres irrigated	Remarks
								Depth to top (feet)	Thickness (feet)	Character of material		Feet below datum	Date		Yield (gpm)	Drawdown (feet)			
10/3W-6F2	H. J. Snodgrass	Dr	1944	26	10	26	P, 16-26	--	--	--	180	--	--	--, 15	300e	--	Irr	27	
6G1	do.	Dr	1945	21	12	21	P, 8-18	--	--	--	180	--	--	C, 10	250e	--	Irr	22.9	
6H1	Chester Royer	Dr	1944	20	12	20	P, 15-20	--	--	--	180	8	--	C, 15	400e	15	Irr	24.4	FC.
6H2	Ardle Edwards	Dr	1948	22	8	22	--	--	--	Gravel	180	8	--	C, 10	135e	--	Irr	16	
6J1	E. H. Chambers	Dr	1944	30	10	30	P, 24-30	--	--	--	185	10	--	C, 15	500e	4	Irr	42.3	
6K1	H. J. Snodgrass	Dr	1950	24	8	--	--	--	--	--	180	--	--	C, 10	250e	--	Irr	15.6	
6K2	do.	Dr	1963	26	8	26	P, 20-25	18 24	6 2	Sand Gravel	180	12	6-24-63	C, 7½	300	1	Irr	10	Lo, FC, Pp 1 hr.
6L1	D. L. Cook	Dr	1954	36	10	36	--	--	--	--	180	12	--	C, 40	400e	10	Irr	7	
6M1	do.	Dr	1948	35	12	35	--	--	--	--	175	12	--	C, 20	500e	10	Irr	63.8	
6N1	do.	Dr	1953	36	10	36	--	--	--	--	180	12	--	C, 15	400e	10	Irr	33.7	
6P1	Carl Harnisch	Dg	1925	13	36	13	Timber crib	9	4	Gravel	175	2	--	N	200e	7-8	U	--	Lo, FC; originally irrigated 3 acres.
6P2	D. L. Cook	Dr	1962	31	10	31	P, 25-30	22	9	Gravel and sand	178	13.02	8-16-65	--	600	2	Irr	--	Li, Pp 2 hr.
6R1	E. H. Chambers	Dr	1947	29	8	29	P, 23-29	--	--	--	185	8	--	C, 15	400e	5	Irr	40.5	
7A1	Elbert Chambers	Dr	1956	30	10	30	P, 22-30	19	11	Sand and gravel	180	12	5- 9-56	--, 10	--	--	Irr	--	Lo, FC.
7A2	M. W. Fletcher	Dr	1966	35	10	34	P, 23-34	20	12	Gravel	178	14½	5-31-66	--	300	7	Irr	--	Li, Pp 1 hr.
7B1	E. H. Chambers	Dn	1942	30	5	30	P, 25-30	--	--	--	181	13	--	C, 7½	400e	4	Irr	--	
7B2	do.	Dr	1942	28	8	28	P, 22-28	--	--	--	175	10	--	C, 20	500e	2	Irr	38.7	
7C1	do.	Dr	1947	29	10	29	P, 23-29	--	--	--	185	10	--	C, 10	400e	5	Irr	19.2	
7C2	do.	Dn	1949	24	5	24	P, 19-24	--	--	--	185	10	--	C, 5	200e	5	Ind	--	Used for peppermint still.
7D1	D. L. Cook	Dr	1953	36	10	36	--	--	--	--	180	10	--	C, 15	400e	12	Irr	29.5	
7E1	do.	Dr	1949	36	10	36	--	--	--	--	180	12	--	C, 15	400e	10	Irr	50.7	
7E2	Gordon Hoefer	Dr	1962	32	12	28½	P, 23-27½	19	10	Gravel	180	18.81	8- 6-65	C, 40	600	10	Irr	--	Lo, FC, Pp 2 hr.

Table 1.--Records of representative wells in the lower Santiam River basin, Oregon--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		Type of pump and hp	Well performance		Use	Acres irrigated	Remarks
								Depth to top (feet)	Thickness (feet)	Character of material		Feet below datum	Date		Yield (gpm)	Drawdown (feet)			
10/3W-7F1	F. J. Stauble	Dr	1956	27	8	22	P, 7-21	--	--	Gravel	185	4.4	12-14-65	C, --	250	3	Irr	--	Lo, FC, Pp 2 hr, Temp 55.
7F2	M. D. Womsley	Dr	1961	33	8	33	P, 27-32	28	5	Gravel and sand	187	10	4- 3-61	C, 7½	300	12	Irr	--	Lo, FC.
7G1	E. H. Chambers	Dr	1948	28	8	28	P, 22-28	--	--	--	185	13	--	C, 15	450e	8	Irr	5.5	
7H1	do.	Dr	1949	31	10	31	P, 25-31	--	--	--	190	14	--	C, 15	400e	8	Irr	49.2	
7M1	F. J. Stauble	Dr	1961	31	8	31	P, 21-31	6	25	Sand and gravel	175	6	1-28-61	C, 15	200	½	Irr	--	Lo, FC, Pp 3/4 hr.
7N1	W. L. Chambers	Dg	p1928	22½	48	--	Timber	12	11	Gravel with sand	180	9.60	8- 1-28	N	--	--	Irr	5	Lo, FC.
7P1	Walter Mangell	Dr	1959	38	8	38	P, 22-38	29	8	Gravel	195	20.8	8- 6-65	C, 10	125	9	Irr	--	Li, FC.
8A1	Henry Harnisch	Dr	1942	23	8	23	P, 13-23	--	--	--	190	12	--	C, 10	400e	5	Irr	29.4	
8A2	do.	Dr	1945	23	6	23	P, 13-23	--	--	--	194	12	--	C, 5	250e	5	Irr	12.3	
8A3	David Harnisch	Dr	1965	28	8	28	P, 18-28	23	5	Gravel	190	10.35 13	2-21-66 10-25-63	C, 10	450	½	Irr	--	Li, FC, Pp 2 hr.
8B1	Henry Harnisch	Dr	1941	23	8	23	P, 13-23	--	--	--	190	12	--	C, 10	400e	5	Irr	11.5	
8C1	Albert Harnisch	Dr	1939	25	8	25	P, 13-25	--	--	--	185	14	--	C, 10	400e	5	Irr	26.5	
8C2	do.	Dr	1948	22	6	22	P, 12-22	--	--	--	185	13	--	C, 10	280e	8	Irr	12.5	
8D1	E. H. Chambers	Dr	1951	21	10	21	P, 15-21	--	--	--	190	6	--	C, 10	375	3	Irr	24.3	
8F1	C. L. Jones	Dr	1948	30	10	30	P, 15-30	--	--	Sand and gravel	190	17	--	C, 15	140e	--	Irr	9	
8G1	M. C. Case	Dr	1945	22	8	22	P, 18-22	--	--	--	190	7	--	C, 15	400e	--	Irr	21.6	
8G2	do.	Dr	1946	22	8	22	P, 15-22	--	--	--	190	7	--	C, 10	400e	4	Irr	17	
8G3	do.	Dr	1951	22	8	22	P, 14-22	--	--	--	190	7	--	C, 10	400e	5	Irr	19	
8H1	do.	Dn	1935	25	4	25	P, 15-25	--	--	--	185	7	--	C, 10	400e	5	Irr	20	
8H2	do.	Dr	1949	24	8	24	P, 14-24	--	--	--	190	4	--	C, 10	400e	5	Irr	24	
8K1	do.	Dn	1941	25	4	25	P, 16-25	--	--	--	185	9	--	C, 300	300e	10	Irr	34.8	
8K2	do.	Dr	1961	31	8	31	P, 19-31	24	7	Gravel	190	17.02	8- 6-65	C, 15	400	15	Irr	--	Lo, FC, Temp 54.5.
8L1	C. L. Jones	Dr	1955	30	10	30	P, 15-30	--	--	Sand and gravel	190	17	--	C, 15	230e	--	Irr	13	

Table 1.--Records of representative wells in the lower Santiam River basin, Oregon--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		Type of pump and hp	Well performance		Use	Acres irrigated	Remarks
								Depth to top (feet)	Thickness (feet)	Character of material		Feet below datum	Date		Yield (gpm)	Drawdown (feet)			
10/3W-9A1	N. V. Shelby	Dr	1941	21	10	21	B	--	--	--	200	13	--	C, 15	320e	--	Irr	30.5	
9B1	do.	Dr	1959	26	10	26	P, 20-25	20	6	Gravel	200	11.73	12-15-65	C, 20	600	2	Irr	--	Li, FC, Pp 3 hr, Temp 54.
9D1	David Harnisch	Dr	1965	29	8	29	P, 19-29	20	9	do.	195	7.00	12-14-65	C, 20	500	6	Irr	--	Lo, FC, Pp 1 hr.
9E1	C. E. Cox	Dr	1952	26	6	26	P, 12-26	--	--	--	195	12	--	C, 10	200e	12	Irr	38	
9E2	do.	Dg	1958	31	8	31	P, --	22	9	Gravel	195	13.34 16.5	12-15-65 8-23-58	C, 10	90b	0	Irr	--	Lo, FC.
9E3	do.	Dr	1962	35	8	35	P, 24-35	28	7	do.	192	11 14	2-24-66 10- 3-62	C, 10	150	13	Irr	--	Lo, FC, Pp 1½ hr.
9F1	David Harnisch	Dr	1962	40	8	40	P, 28-40	20	20	Sand and gravel	202	17½	10- 8-62	C, 10	200	10	Irr	15-18	Li, FC, Pp 1 hr.
9G1	Sidney Hess	Dr	1951	20	8	20	P, 16-20	--	--	--	190	9	--	C, 10	400e	--	Irr	38.2	
9L1	do.	Dr	1949	20	8	20	P, 14-20	--	--	--	190	15	--	C, 10	200e	--	Irr	14	
9M1	E. A. Carpenter	Dr	1957	25	8	24½	P, --	8	17	Gravel	185	8	6- 3-57	--	80b	0	Irr	--	Lo, FC.
9Q1	L. A. Drager	Dr	1964	40	10	40	P, 30-40	23	16	do.	200	17.5	8-16-65	N	100b	0	Irr	--	Lo, FC, Pp 1 hr.
9Q2	do.	Dr	1965	37	10	37	P, 23-37	18	17	Gravel, coarse	205	9.75 13.75	2-20-65 12-14-65	--	400b	2	Irr	--	Li, FC, Pp 1½ hr.
10B1	W. E. Kreger	Dr	1961	26	6	26	P, 22-25	16	10	Gravel	220	12	11-10-61	C, 10	150	6	Irr, Ind	--	Lo, FC, Pp 10 hr.
10H1	L. A. Wedde	Dg	1955	15	10	15	B	6	9	Gravel, coarse	210	4	--	C, 15	500	2	Irr	50	Lo.
10J1	H. J. Miller	Dr	1951	21	8	21	P, 16-21	--	--	--	215	14	--	C, 10	300e	6	Irr	26.5	
10J2	do.	Dr	1960	18½	10	--	P, 12-17	7	11½	Gravel	215	5.33 6	2-21-66 6-22-60	--	600	1	Irr	--	Li, FC, Pp 2 hr, Temp 52.
10R1	do.	Dr	1962	4,951	6 7	23 510	P, 19½-21	20	3	Gravel and coarse sand	215	8	8- 1-62	C, 1½	40	10	Test	--	Lo, FC, Pp 2 hr, Temp 51; oil test well.
11C1	L. A. Weddle	Dr	1952	20	10	20	--	14	6	Gravel, coarse	210	4-6	--	C, 15	550e	0-2	Irr	40	Lo.
11E1	do.	Dr	1941	25	10	25	--	10	15	Gravel, medium-coarse	210	8-10	--	C, 15	450	5	Irr	30	Lo.
11F1	do.	Dr	1940	20	10	20	P, --	9	11	do.	210	8-10		C, 20	600	4	Irr	45	Lo.

Table 1.--Records of representative wells in the lower Santiam River basin, Oregon--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		Type of pump and hp.	Well performance		Use	Acres irrigated	Remarks
								Depth to top (feet)	Thickness (feet)	Character of material		Feet below datum	Date		Yield (gpm)	Drawdown (feet)			
10/3W-11G1	L. A. Weddle	Dr	1943	20	10	20	B	10	10	Gravel, medium-coarse	210	8-10	--	C, 15	400e	6	Irr	27	Lo.
11G2	do.	Dr	1944	20	10	20	B	8½	11½	Gravel, coarse	210	8½	--	C, 20	580	6	Irr	40	Lo.
11K1	Rose M. Grenz	Dr	1953	28	8	28	P, 18-28	--	--	--	210	10	--	C, 10	300e	4	Irr	4	
11M1	H. J. Miller	Dr	1951	22	8	22	P, 17-22	--	--	--	215	11	--	C, 15	500e	5	Irr	44.9	
11N1	Agnes Hilliker	Dr	1942	25	4	25	P, 15-25	--	--	--	220	10	--	C, --	150e	--	Irr	30	
11N2	Clara C. Kizer	Dr	1955	22	8	22	P, 16-22	--	--	--	220	10	--	C, 15	250e	10	Irr	25.59	
11N3	do.	Dr	1957	22½	10	22½	P, 17-22	12½	10	Sand and gravel	215	10	5- -57	C, 15	250	8	Irr	--	Li, FC, Pp 2 hr, Temp 53.
11P1	Mary Ammon	Dr	1938	32	10	32	P, 24-32	--	--	--	215	14	--	C, 20	350e	4	Irr	26.9	
11P2	Rose M. Grenz	Dr	1942	23	4	23	P, 15-23	--	--	--	215	10	--	C, 15	350e	6	Irr	19.6	
11Q1	J. F. Grenz	Dn	1941	30	4	30	P, 28-30	--	--	--	215	16	--	C, 15	300	4	Irr	11	
11Q2	do.	Dr	1946	27	6	27	P, 21-27	--	--	--	215	16	--	C, 15	250	4	Irr	12	
11R1	Martha Looney	Dr	1943	29	8	29	P, 14-29	14	15	Gravel, coarse	215	14	--	C, 15	400	3	Irr	26½	Lo.
12E1	Alva Riddle	Dr	1958	32	6	28	P, 20-28	18 22 26	4 4 4	Boulders Gravel Sand and gravel	230	12	3- 9-58	N	20b	10	U	--	Li, FC.
12N1	Town of Jefferson	Dr	1938	38	8	38	P, --	--	--	--	227	--	--	T, 10	60e	--	PS	--	Chlorinator attached.
12N2	do.	Dr	1940	40	8	--	--	--	--	--	227	--	--	T, 15	120e	--	PS	--	No chlorinator.
12N3	do.	Dr	1951	124	8	--	P, 24-30	--	--	Sand and gravel	227	--	--	T, 20	200e	100±	PS	--	Li; chlorinator attached.
12Q1	N. D. Bradley	Dr	1942	22	6	22	P, 12-22	12	10	Gravel, fine	240	10	--	C, 10	650	10	Irr	80	Lo, wells 10/3W-12Q1 and 12Q2 Pt.
12Q2	do.	Dr	1953	26	10	26	P, 16-26	12	14	do.	240	10	--	C, 20	650	10	Irr	--	Lo, wells 10/3W-12Q1 and 12Q2 Pt.
12Q3	D. T. Henion	Dr	1956	28	8	28	P, 16-28	8 20	10 8	Gravel and sand do.	240	8	11- 1-56	--	600	18	Irr	--	Lo.
12R1	J. W. Vasek	Dr	1954	23	10	23	--	14	9	Gravel, large	240	13	--	C, 25	500	1	Irr	96	
13A1	F. J. Sadle	Dr	1949	25	10	25	P, 13-25	--	--	Sand and gravel	240	12	--	C, 15	600e	--	Irr	25	

Table 1.--Records of representative wells in the lower Santiam River basin, Oregon--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		Type of pump and hp	Well performance		Use	Acres irrigated	Remarks
								Depth to top (feet)	Thickness (feet)	Character of material		Feet below datum	Date		Yield (gpm)	Drawdown (feet)			
10/3W-13B1	L. W. Wells	Dr	1947	20	8	20	P, --	--	--	--	240	10	--	C, 10	240e	--	Irr	30	
13B2	N. D. Bradley	Dr	1960	24½	10	24½	P, 17-23	15	9½	Gravel, large	240	9	--	C, 30	600	2	Irr	--	Li, FC, Pp 2 hr, Temp 52.
13C1	E. W. Hart	Dr	1952	35	8	34	--	24	10	Clay and river rock	235	14.13	6-14-66	N	200	10	U	--	Lo, FC, WL; formerly irrigated 30 acres.
13D1	L. W. Wells	Dr	1939	30	8	30	P, --	--	--	--	225	15	7- 1-56	C, 10	260e	--	Irr	20	
13D2	H. M. Wall	Dr	1946	25	8	25	P, 14-25	--	--	Gravel	227	10	--	C, 7½	130+	5	Irr	6	
13D3	Luella M. Moses	Dr	1950	24	8	24	P, 16-24	--	--	--	228	17	--	C, 10	700	--	Irr	27.7	
13F1	E. W. Hart	Dr	1949	21	8	21	P, 8-21	8	13	Gravel and sand	225	4.50	2-10-67	C, 20	400	0	Irr	60	FC, CA, WL, Temp 52.
13H1	A. L. Arnold	Dr	1950	20	8	20	P, --	--	--	--	245	8	--	--, 15	400	--	Irr	30	
13J1	R. S. Hart	Dg	1940	15	30	--	Tile	--	--	Sand and gravel	235	8	--	C, 20	600	3	Irr	45	
13K1	L. W. Wells	Dr	1955	26	8	26	P, --	--	--	--	235	15	7-17-55	C, 10	270e	--	Irr	30	
13L1	E. C. Hart	Dn	1945	20	4	20	--	--	--	Sand and gravel	226	7±	--	C, 15	240e	--	Irr	29.51	
13L2	R. E. White	Dr	1954	28	8	28	P, 18-28	--	--	--	225	10	--	C, 20	275e	--	Irr	39	
13L3	E. C. Hart	Dr	1961	22	10	21 2/3	P, 15-21	12	10	Gravel, large	226	10	4- 6-61	--	600	1/4	Irr	--	Lo, Pp 2 hr, Temp 51.
13M1	Walter Glasgow	Dr	--	28	8	28	P, 16-28	--	--	--	225	12	--	--, 10	300e	--	Irr	16	
13M2	do.	Dr	1945	32	8	32	P, 16-32	--	--	--	227	14	--	--, 10	250e	--	Irr	18	
13N1	do.	Dr	1945	28	8	28	P, 16-28	--	--	--	220	12	--	--, 10	300e	--	Irr	22	
13N2	E. H. Aerni	Dn	1947	21	4	21	P, 19-21	--	--	Gravel	220	10	--	C, 15	450	--	Irr	35	
13P1	R. E. White	Dr	1954	26½	10	26½	P, 16-26½	--	--	--	227	8	--	C, 15	275e	--	Irr	36	
14A1	W. F. Weddle	Dr	1948	20	8	20	--	--	--	--	220	9 3/4	--	--, 15	340	1	Irr	25	
14B1	Mary Ammon	Dr	1939	35	10	35	P, 27-35	--	--	--	220	14	--	C, 15	350e	4	Irr	16.3	
14B2	Scravel Hill Water Coop.	Dr	1961	28½	8	28½	P, 23-27½	14	14	Gravel, coarse	220	14	12- 6-61	T, 5	450	1	PS	--	Li, FC, Pp 12 hr.
14H1	L. W. Wells	Dr	1940	25	8	--	--	--	--	--	224	10	--	C, 10	300e	--	Irr	25	

Table 1.--Records of representative wells in the lower Santiam River basin, Oregon--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		Type of pump and hp	Well performance		Use	Acres irrigated	Remarks
								Depth to top (feet)	Thickness (feet)	Character of material		Feet below datum	Date		Yield (gpm)	Drawdown (feet)			
10/3W-14H2	L. W. Wells	Dr	1955	30	8	30	P, --	--	--	--	220	10	--	C, 10	300e	--	Irr	45	Wells 10/3W-14H2 and 14J1 Pt.
14J1	do.	Dr	1941	28	8	28	P, --	--	--	--	220	12	--	--	300e	--	Irr	--	Wells 10/3W-14H2 and 14J1 Pt.
14N1	Raymond Fordham	Dr	1963	192	6	95	B	114	2	Gravel	340	50 73.6	12-14-63 8-16-65	S, 1/2	2b	140	D	--	Li, FC, Pp 3 hr.
14R1	O. D. Stephenson	Dr	1937	20	8	20	--	--	--	--	220	<10	--	C, 10	300e	--	Irr	18	
14R2	N. L. Stephenson	Dn	1954	21	4	21	P, --	3	18	Gravel	220	3	--	C, 10	210e	--	Irr	30	Lo.
15A1	Ed Ammon	Dr	1962	30	8	30	P, 22-30	15	15	Sand and gravel	220	6	3-22-62	--, 3	75b	9	D, Irr	--	Li, FC, Pp 1½ hr.
15M1	Peterson	Dr	1959	255	6	40	B	240	5	Sand, black	310	94.85	8-17-65	S, 1	36b	20	D	--	Li, FC, CA, Temp 54, Pp 4 hr.
15P1	G. K. Miller	Dr	1965	70	8	50	B	51	19	Sandstone, yellow	465	0	1- 3-66	S, 3/4	19b	All	D	--	Li, FC, CA, Temp 55, Pp 1 hr.
16B1	L. C. Henion	Dr	1951	28	10	28	P, 22-28	--	--	--	200	12	--	C, 10	250e	6	Irr	19.2	
16B2	H. K. Severance	Dr	1954	36	6	35	P, 29-35	--	--	--	210	12	--	C, 30	200e	10	Irr	6	
16C1	R. L. Shelton	Dr	1960	36½	8	36½	P, 24-36	19	15	Gravel	210	12	6-27-60	--	150	8	Irr	--	Lo, FC.
16F1	do.	Dr	1964	38	8	32½	P, 20-32	23	10	do.	210	15.8	10-24-64	--	65b	12	D	--	Lo, FC, Pp 1 hr.
16N1	Wilbur Turnidge	Dr	1950	30	10	30	P, 22-30	--	--	--	215	8	--	C, 5	50e	--	Irr	30	
16Q1	J. H. Lyon	Dr	1951	30	6	30	P, 20-30	--	--	--	220	10	--	J, 3	30e	--	Irr	3.5	
16Q2	B. J. Silveira	Dr	1958	150	6	130	P, 40-65, 70-76, 90-95, 122-128	39 71 92 130	25 7 3 3	Sand and clay Sand, black Clay, sandy Gravel, coarse	220	23.8	8- 7-65	S, 3/4	10b	150	D	--	Li, FC, Pp 3 hr.
17J1	G. W. Davies	Dr	1966	30	6	36	P, 24-28	20	10	Sand, coarse, and gravel	205	7	5-24-66	C, 30	60b	--	Irr	--	Lo, FC, Pp 2 hr.
17K1	Ernest Henschel	Dr	1964	48	6	47	P, 38-47	44	2	Gravel	210	12	8-21-65	S, --	15b	26	D	--	Li, FC.
18B1	C. L. Parker	Dr	1953	42	10	42	P, 32-42	--	--	--	190	14	--	C, 10	200e	6	Irr	37.1	

Table 1.--Records of representative wells in the lower Santiam River basin, Oregon--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		Type of pump and hp	Well performance		Use	Acres irrigated	Remarks
								Depth to top (feet)	Thickness (feet)	Character of material		Feet below datum	Date		Yield (gpm)	Drawdown (feet)			
10/3W-18D1	G. E. Weber	Dr	1956	31½	10	31½	P, 24-30½	16	15½	Gravel	180	5	5-18-66	--	600b	1	Irr	--	Li, Pp 1 hr.
18E1	P. L. Turnidge	Dr	1952	30	10	30	P, 20-30	16	14	Sand and gravel	180	16	--	C, 20	600	1	Irr	34.7	Lo.
18E2	G. E. Weber	Dr	1958	30	8	30	P, 18-29	19	12	Gravel, large	180	15	9-12-58	C, 10	250	1½	Irr	--	Lo.
18F1	O. J. Rohner	Dr	1946	34	12	34	P, 28-34	--	--	--	190	17	--	C, 10	200e	--	Irr	23.6	
18G1	do.	Dr	1950	38	8	38	P, 30-38	--	--	--	195	19	--	C, 10	150e	--	Irr	22	
18K1	Ed Messman	Dr	1954	34	10	34	P, 30-34	--	--	--	195	17	--	C, 15	300	4	Irr	14.1	
18K2	Thomas Wilkinson	Dr	1955	37	8	37	P, 27-37	--	--	--	195	23	--	C, 15	250	2	Irr	38.6	
18K3	G. L. Rohner	Dr	1962	60	8	54	P, 44-54	40	11	Gravel, coarse	195	19	9-12-62	T, --	150b	10	Irr	--	Li, FC, Pp 1 hr.
18L1	Ed Messman	Dr	1942	26	10	26	P, 22-26	--	--	--	190	8	--	C, 15	400	6	Irr	15.1	
18L2	Willie Hoffman	Dr	1962	40	10	40	P, 34-39	28	12	Sand and gravel	190	19	4-12-62	C, 10	150	17	Irr	--	Lo, FC, Pp 2 hr, Temp 53.
18L3	Ivan Mustoe	Dr	1966	45	8	44	P, 30-42	26	15	Gravel, coarse	190	19	10-17-66	--	275	3	Irr	--	Lo, FC, Pp 2 hr.
18M1	Ed Messman	Dg	1940	22	72	--	Plank	--	--	--	185	6	--	C, 10	100	12	Irr	13.3	
18M2	Marvin Fletcher	Dr	1954	35	8	35	P, 20-35	--	--	--	185	10	--	C, 10	200e	12	Irr	--	
19D1	William Brennon	Dr	1958	50	10	40	P, 17-39	27	5	Gravel	201	20.57	8-17-65	N	60b	All	U	--	Li, FC; depth of well was 33.8 ft on 8-17-65.
19E1	Gilbert Groshong	Dn	p1928	33	1 1/4	33	--	32	2	do.	201	--	--	--	10e	--	D, Stock	--	Lo, FC; water is reported to be hard.
19K1	Lester Conser	Dr	p1929	160	4	--	--	25 90	7 1	do. Sandstone	199	--	--	N	--	--	U	--	Li, FC; abandoned. Water is reported to be saline.
19M1	Robert Groshong	Dr	1960	39	8	39	P, 33½-38½	33	6	Gravel, coarse	200	20	10-19-60	--	50b	--	U	--	Li, FC; water is reported to be hard.
20B1	Herbert S. Wood	Dr	1950	132	10	3	P, 0-30	--	--	--	220	90	--	T, 5	80	20	Irr	25.3	
20K1	Eldon Chowning	Dr	1959	150	6	150	P, 105-110, 120-126, 142-148	105	45	Clay, sandy	227	27.7	8-20-65	J, 2	30	4	D	--	Li, FC, CA, WL, Pp 2 hr, Temp 56.
20Q1	Lester Conser	Dr	p1928	212½	3	25	B	24	36	Shale	235	23.55	8- 1-28	--	5e	--	D, Stock	--	Lo; water is reported to be hard.

Table 1.--Records of representative wells in the lower Santiam River basin, Oregon--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		Type of pump and hp	Well performance		Use	Acres irrigated	Remarks
								Depth to top (feet)	Thickness (feet)	Character of material		Feet below datum	Date		Yield (gpm)	Drawdown (feet)			
10/3W-20R1	Dick Draper and others	Dr	1964	62	6	44	P, 36-44	36 38	2 6	Clay, yellow Shale	228	38.4	8-21-65	S, --	30b	50	D	--	Li, FC, Pp 1 hr; cooperatively owned by six householders.
21F1	W. K. Powell	Dr	1962	167	6	80	P, 35-39, 55-59, 75-79	35 50	4 117	Sand and gravel Shale and conglomerate	235	21	3-19-62	N	50	19	U	--	Li, FC, Pp 2½ hr, Temp 54.
21Q1	Engineering Management, Inc.	Dr	1962	250	6	154	P, 17-26, 144-154	17 144	9 10	Gravel Clay, brown	235	27	4-30-62	S, 1/2	25b	105	Ind	--	Li, FC, Pp 1 hr.
23A1	Ernest Aerni	Dr	1966	25	8	24	P, 13-24	16	8	Gravel and sand	220	11	8- 6-66	--	234	4	Irr	--	Lo, Pp 8 hr.
23E1	Jay Eveleth	Dr	1963	104	6	60	B	88	5	Rock, black	400	16 21.4	8-26-63 8-20-65	J, 1	5b	--	D	--	Lo, FC; depth of well was 95.8 ft on 8-20-65.
23L1	E. W. McDaniels	Dr	1960	120	6	25	B	105	10	Sand, black, and shale	365	50 61.3	3- 2-60 11-11-65	S, 1½	40b	0	D	--	Li, FC.
24C1	R. E. White	Dr	1954	23½	10	23½	P, 13-23½	--	--	--	225	6	--	C, 10	150e	--	Irr	10	
24D1	W. F. Weddle	Dr	1948	20	8	20	--	--	--	--	225	8.2	--	--, 10	280	1/2	Irr	40	
24K1	Jim Towery	Dr	1966	22	10	22	P, 18-22	17	2	Gravel and sand	225	9	5-14-66	C, 20	300	6	Irr	--	Li, FC, Pp 1 hr.
25C1	I. C. Pinkston	Dr	1952	30	10	30	P, 22-30	--	--	--	220	12	--	C, 15	600	4	Irr	61.8	
25D1	do.	Dr	1961	116	6	58	B	112	4	Gravel, black, and shale	290	15(?)	9-27-61	S, 3/4	30b	10	D	--	Li, FC, Pp 2 hr.
26M1	Lester Kropf	Dr	1956	46	6	45½	P, 37-45	40	6	Gravel	247	9	1- 3-57	J, 1	10b	20	D	--	Li, FC.
27J1	Clover Ridge School	Dr	1965	61	8	52½	P, 43-52½	36	12	Sand and gravel	250	25	6-10-65	S, --	30b	10	Inst	--	Li, FC, Pp 1 hr.
28K1	Tidewater Oil Co.	Bd	1959	86	6	24	B	75	10	Clay, blue, and sand	245	40.75	4- 3-66	J, --	5	All	Ind	--	Li, FC.
28L1	Brands Plywood Mill	Dr	1959	80	6	--	P, 34-50	15	35	Sand, brown	230	15	--	--	40 50	14 30	Ind	--	Lo, FC, Pp 3 hr, Temp 55.
28Q1	Shell Oil Co.	Dr	1959	185	6	185	B	178	7	Clay, gray	225	40	9- -59	--	2½e	--	Ind	--	Li, FC.
28Q2	do.	Dr	1959	102	6	38	B	67	35	Clay with sand layers	225	39	10-19-59	J, 1/2	1	22	Ind	--	Lo, FC; iron taste; pumps dry in summer.

Table 1.--Records of representative wells in the lower Santiam River basin, Oregon--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		Type of pump and hp	Well performance		Use	Acres irrigated	Remarks
								Depth to top (feet)	Thickness (feet)	Character of material		Feet below datum	Date		Yield (gpm)	Drawdown (feet)			
10/3W-28R1	V. B. Kenworthy	Dr	1929	215	4	--	--	40	175	Sedimentary rock and shale	278	40	--	--	Very small	--	D	--	Lo, FC.
33A1	H. E. Cox	Dr	1958	45	6	45	P, 31-35, 41-44	31 38	3 7	Clay and gravel Sand and gravel	210	14	7- 8-58	N	30	14	Irr	--	Lo, FC, Pp 3 hr.
33K1	George Settlemier	Dr	1948	15	1,500	--	Infiltration trench	--	--	--	195	--	--	C, 5	100e	--	Irr	5	
33K2	C. Bean	Dr	1963	90	6	77	P, 70-77	70 77	7 8	Clay, blue Sand, brown, and gravel	210	7	4-26-63	J, 1	40b	20	D	--	Li, FC, Pp 1 hr.
33L1	Tumble Inn	Dr	p1929	50	--	--	--	Above 48	To 48	Gravel and sand	215	--	--	--	--	--	--	--	Lo, FC.
34H1	J. L. Crisp	Dr	1959	50	8	49	P, 37-49	34 44	4 4	Gravel do.	230	16 18	6-16-59	J, 3/4	66b	40	D	--	Li, FC.
34N1	Isaac Kennel	Dr	1958	40	6	39½	B	35	5	Clay	215	4	3-24-58	--, ½	15b	All	D	--	Lo, Pp 3 hr.
36C1	George Lines	Dn	1959	50	1¼	50	B	26	24	Gravel, yellow	245	+3 -10	Winter 7- -63	H	4e	--	S	--	Li, FC, CA, Temp 55.
10/4W-1A1	Florence M. Cooper	Dr	1954	30	10	30	P, 20-30	--	--	--	175	12	--	C, 30	350e	3	Irr	38.5	
1B1	do.	Dr	1938	25	10	25	P, 17-25	--	--	--	175	8	--	C, 40	1,000e	3	Irr	31.8	
1B2	do.	Dr	1951	30	10	30	P, 22-30	--	--	--	175	12	--	C, 20	600e	3	Irr	36.8	
1D1	do.	Dr	1943	30	10	30	P, 22-30	--	--	--	175	12	--	C, 40	450e	5	Irr	27.3	
1E1	do.	Dr	1940	32	10	32	P, 24-32	--	--	--	174	10	--	C, 40	500e	8	Irr	34.1	
1F1	do.	Dr	1939	30	10	30	P, 22-30	--	--	--	175	10	--	C, 40	400e	5	Irr	27.3	
1F2	do.	Dr	1941	30	10	30	P, 22-30	--	--	--	175	14	--	C, 40	350e	4	Irr	28.7	
1G1	do.	Dr	1945	35	10	35	P, 27-35	--	--	--	175	15	--	C, --	300e	5	Irr	17.4	
1G2	Ammon Bros.	Dr	1959	39	10	39	P, 27-39	27	12	Gravel	175	15	11-13-59	C, 30	600	1½	Irr	--	Li.
1H1	N. L. Grate	Dr	1944	20	10	20	P, 17-20	--	--	--	175	13	--	C, 15	350e	--	Irr	44.5	FC.
1J1	Rebecca A. Horfer	Dr	1944	20	10	20	P, 14-20	--	--	--	175	5	--	C, 20	1,000	1	Irr	47.7	FC.

Table 1.--Records of representative wells in the lower Santiam River basin, Oregon--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		Type of pump and hp	Well performance		Use	Acres irrigated	Remarks
								Depth to top (feet)	Thickness (feet)	Character of material		Feet below datum	Date		Yield (gpm)	Drawdown (feet)			
10/4W-1R1	L. F. Michele	Dr	1956	28½	10	28½	P, 18-28½	17	11½	Gravel and sand	175	17	7- 5-56	--	600	4	Irr	--	Lo, FC, Pp 1 hr.
1R2	L. D. Cook	Dr	1956	27½	10	27½	P, 18-27½	20	7½	Gravel	175	16.43	8-16-65	C, 40	600	4	Irr	--	Li, FC, Pp 2 hr; depth of well was 26.5 ft on 8-16-65.
2H1	C. G. Chambers	Dr	1949	28	12	28	P, 21-28	--	--	--	174	11	--	C, 68	1,200e	--	Irr	39.7	
2J1	R. P. Richardson	Dr	1947	30	10	30	B	--	--	Gravel	170	10	--	C, 15	800	2	Irr	65	
2K1	C. G. Chambers	Dr	1951	30	8	30	P, 20-30	--	--	--	170	6.2	8-17-65	C, 30	1,000e	--	Irr	28.2	
2L1	do.	Dr	1952	26	6	26	P, 21-26	--	--	--	175	16	--	C, 7½	125e	--	Irr	6.8	
2R1	R. P. Richardson	Dr	1949	30	10	30	B	--	--	Sand and gravel	170	10	--	C, 20	800	2	Irr	--	
11A1	A. A. Chambers	Dr	1960	32	8	32	P, 21-31	12	20	Gravel	170	7.35	8- 6-65	C, 15	1,000e	3.4	Irr	--	Li, FC, CA.
11B1	C. W. Chambers	Dr	1951	34	8	34	P, 24-34	--	--	--	170	13	--	C, 20	700e	2½	Irr	35.5	
11B2	Perry Roth	Dr	1953	32	10	32	--	--	--	--	165	10	--	C, 25	360e	--	Irr	36	
11F1	do.	Dr	1945	30	10	30	P, 25-29	--	--	--	175	8	--	C, 15	350e	--	Irr	45	
11H1	A. A. Chambers	Dr	1944	26	12	26	P, 21-26	--	--	--	172	12	--	C, 15	400e	5	Irr	27.5	
11J1	do.	Dr	1941	19½	12	19½	P, 13½-19½	--	--	--	173	7	--	C, 30	1,000e	3	Irr	66.5	
11Q1	do.	Dr	1944	29	6	29	P, 23-29	--	--	--	178	12	--	C, 3	200e	1	Ind	--	FC.
11R1	do.	Dr	1941	23	12	23	P, 0-23	--	--	--	175	12½	--	C, 30	1,000e	5	Irr	71.9	FC.
12A1	L. F. Michele	Dr	1947	23½	10	23½	P, 14½-23½	14	9½	Gravel	177	8	--	C, 15	300e	10	Irr	40	Li.
12A2	Elmer Cook and Dale Chilcote	Dr	1964	30	10	30	P, 24-29	16	14	do.	179	13	2-21-64	--	550	5	Irr	--	Lo, FC, Pp 3 hr, Temp 52.
12F1	Henry Hoefer	Dg	p1928	24½	24	24	Concrete tile	19	5	do.	185	22.95	9- 7-28	N	--	--	U	--	Lo, FC, WL, H.
12F2	do.	Dr	--	32	8	--	--	--	--	do.	186	21.85	6-14-66	N	--	--	U	--	FC, WL, H.
12G1	Gordon Hoefer	Dr	1952	36	10	36	P, 28-36	--	--	--	175	14	--	C, 15	300	3	Irr	21.8	
12H1	L. F. Michele	Dr	1947	29	10	29	P, 20-29	21	8	Gravel	179	12	--	C, 15	400e	15	Irr	40	Lo.

Table 1.--Records of representative wells in the lower Santiam River basin, Oregon--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		Type of pump and hp	Well performance		Use	Acres irrigated	Remarks
								Depth to top (feet)	Thickness (feet)	Character of material		Feet below datum	Date		Yield (gpm)	Drawdown (feet)			
10/4W-12H2	Gordon Hoefer	Dr	1952	36	10	36	P, 28-36	--	--	--	185	10.82	5- 5-66	J, 5	200	8	D, Irr	4.3	FC.
12J1	do.	Dr	1940	28	10	28	P, 20-28	--	--	--	185	12	--	C, --	250	8	Irr	13.7	
12K1	do.	Dr	1940	28	10	28	P, 22-28	--	--	--	184	8	--	C, 40	800	8	Irr	76.2	
12K2	do.	Dr	1941	30	10	30	P, 24-30	--	--	--	185	10	--	--	300	10	Irr	21.8	
12L1	M. C. Hoefer	Dr	1948	35	10	35	P, 26-33	10	35	Gravel, medium	185	--	--	C, 10	225	15	Irr	74	Li, wells 10/4W-12L1, 12L2, and 12M1 Pt.
12L2	do.	Dr	1955	30	12	30	P, 23-29	15	15	Gravel, coarse	185	15	--	C, 65	700	7	Irr	--	Lo, wells 10/4W-12L1, 12L2, and 12M1 Pt.
12M1	do.	Dr	1951	20	12	20	P, 12-20	7	13	Sand and gravel	185	7	--	C, 20	500e	--	Irr	--	Lo, wells 10/4W-12L, 12L2, and 12M1 Pt.
12P1	R. K. Baker	Dr	1953	38	12	38	P, 30-38	--	--	--	184	24	--	C, 20	300e	--	Irr	45.8	
12P2	Gordon Hoefer	Dr	1963	32	10	31	P, 25-30	18	13	Gravel, medium	184	16	4-22-63	T, 5	300	7	Irr	--	Li, FC, Pp 2 hr.
12Q1	R. K. Baker	Dr	1945	32	10	32	P, 20-32	--	--	--	184	18	--	C, 20	420e	--	Irr	137.6	
12Q2	do.	Dr	1954	36	12	36	P, 26-36	--	--	--	184	18	--	C, 40	700e	--	Irr	100.2	
13C1	do.	Dr	1953	32	12	32	P, 26-32	--	--	--	184	26	--	C, 15	300e	--	Irr	28.5	
13C2	do.	Dr	1954	38	12	38	P, 30-38	--	--	--	183	30	--	T, 5	110e	--	Irr	18	
13C3	James Grate	Dr	1963	40	10	30	P, 21-29	20	12	Gravel and clay	183	21.72	8- 6-65	N	125	15	U	--	Li, FC, Pp 2 hr; depth of well was 33.2 ft on 8-6-65.
13D1	C. W. Chambers	Dr	1954	42	10	42	P, 32-42	--	--	--	175	18	--	C, 10	225e	--	Irr	14	
13D2	do.	Dr	1960	35	8	35	P, 25-35	30	5	Gravel	175	23	10-15-60	C, 10	250	3	Irr	--	Lo, FC.
13E1	M. E. Winn	Dr	1946	32	8	32	P, 24-32	--	--	--	178	10	--	C, 20	320e	--	Irr	46	
13E2	P. L. Turnidge	Dr	1951	32	10	32	P, 22-32	12	22	Gravel and sand	180	12	--	C, 15	500	1	Irr	35.7	Lo.
13G1	do.	Dr	1951	34	10	34	P, 24-34	15	19	Sand and gravel	180	12	--	C, 10	300	6	Irr	13.7	Lo.
13G2	M. W. Fletcher	Dr	1951	32	8	32	P, 17-32	--	--	--	181	12	--	C, 10	170e	14	Irr	15.8	

Table 1.--Records of representative wells in the lower Santiam River basin, Oregon--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		Type of pump and hp	Well performance		Use	Acres irrigated	Remarks
								Depth to top (feet)	Thickness (feet)	Character of material		Feet below datum	Date		Yield (gpm)	Drawdown (feet)			
10/4W-13H1	M. E. Winn	Dr	1956	29	10	29	P, 22-29	8	21	Gravel	181	15	7-10-56	C, 10-15	500	1	Irr	--	Lo, FC.
13L1	P. L. Turnidge	Dr	1950	38	10	38	P, 28-38	14	24	Sand and gravel	181	14	--	C, 15	500	½	Irr	43.8	Lo.
14A1	C. W. Chambers	Dr	1943	29	8	29	P, 19-29	--	--	--	175	8	--	C, 20	700e	2½	Irr	52.6	
24H1	Gilbert Groshong	Dr	1950	28	8	28	P, 20-28	18	10	Gravel	195	18	--	--	240e	--	Irr	28.5	Lo.
24K1	Clifford Chambers	Dr	1963	41	6	41	P, 28-38	25	16	Gravel with green clay	192	25	1-21-63	J, ½	45b	3	D	--	Li, FC, Pp 2 hr.
10/1-7E1	J. L. Klundt	Dr	1956	37	6	37	B	20	<17	Rock, blue	440	23.94 25	2-25-66 9-10-56	J, ½	6b	0	D	--	Li, FC, WL.
9L1	Bennie Silbernagel	Dr	1960	240	6	None	--	40	1	do.	740	8	3-16-60	--	10	147	D	--	Li, Pp 1 hr.
9L2	do.	Dr	1960	221	6	52	B	53 158 210	1 1 1	Sandstone, brown Tuffstone, gray Shale, gray	740	65	6-24-65	S, 1½	24b	--	D	--	Li, FC, CA, SpA, WL.
15G1	A. L. Way	Dr	1959	51	6	21	B	49	3	Tuffstone	810	10	9-29-59	--	40	5	--	--	Li, Pp 1½ hr.
16J1	E. R. Burton	Dr	1961	50	6	22	B	22	28	Tuffstone, gray	560	10	2-27-61	J, 1	70	10	D	--	Li, Pp 3/4 hr.
21K1	Luley Bros. Lumber Co.	Dr	1963	111	6	40	B	40 110	70 1	Claystone, black Sand and gravel	580	3.79 6	2-28-66 10-10-63	S, --	25b	25	Ind	--	Li, FC, Pp 2 hr.
11/1W-2C1	George Rice	Dr	1962	88	6	25	B	25	63	Sandstone and claystone	355	3.21 3.5	2-28-66 4-24-62	J, 1	30b	45	D	--	Li, FC, WL, Pp 1 hr.
6B1	I. S. Marshall	Dr	1956	50	6	18½	B	--	--	--	290	2.60	2-10-67	T, ½	--	--	D	--	FC, WL.
14H1	William Ede	Dr	1965	100	6	32	B	--	--	--	510	18	10-11-65	--	3b	60	D	--	Li, Pp 1 hr, Temp 54.
19M1	Wimer Logging Co.	Dr	1960	150	8	140	P, 52-72	57 65	8 7	"Rock, soft" Clay, blue	327	15	3-10-58	S, 3	30b	120	Ind	--	Li, Pp 15 hr.
20L1	W. S. Sparks	Dr	1947	115	6	80	B	--	--	--	355	57	--	J, 2	80	13	Irr	9.5	
20N1	Seth Downer	Dr	1963	225	6	221	--	218	5	Sand and gravel	365	56	1- 1-63	S, 1	30b	20	D	--	Li, FC, WL, Pp 1 hr, Temp 54.
25C1	Archie Wolfenberger	Dr	1961	54	6	53	B	50	4	Sand and gravel, loose	650	20	7-29-61	J, ½	10b	22	D	--	Li, FC, CA, Pp 1 hr, Temp 54.

Table 1.--Records of representative wells in the lower Santiam River basin, Oregon--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		Type of pump and hp	Well performance		Use	Acres irrigated	Remarks
								Depth to top (feet)	Thickness (feet)	Character of material		Feet below datum	Date		Yield (gpm)	Drawdown (feet)			
11/1W-25G1	Cecil Birth	Dr	1966	46	6	39	B	43	3	Sand and gravel with clay	660	16 2/3	5-29-66	--	10b	18	D	--	Lo, Pp 1 hr, Temp 54.
25K1	V. H. Jensen	Dr	1957	85	5	82	B	82	3	"Glacier marble"	610	17	6- -57	--	6b	--	D	--	Li.
27P1	Salt Lake Dist. School	Dr	p1928	86	4	85	B	85	1	"Soft rock"	374	--	--	--	--	--	Inst	--	Li, FC; soft water.
29M1	Bingenheimer	Dr	p1928	193	4	78	B	176	17	Boulders and gravel	355	17	--	--	--	--	--	--	Li, FC.
29R1	Ivan Runkle	Dr	1958	70	6	70	B	69	1	Sandstone, black, hard	350	6	2-22-58	--	5b	--	D	--	Li.
32B1	Earl Carlton	Dr	1952(?)	214	--	20	B	Near bottom	1	Small porous zone (in tuff?)	370	--	--	--	--	--	D, S	--	FC.
32D1	Linn County Oil Development Co.	Dr	1958	4,529	--	--	--	--	--	--	345	--	--	--	--	--	Test	--	Lo, FC; "Barr 1" oil test well.
11/2W-2D1	Plagmann Farms	Dr	1942	28	10	28	P, 23-28	--	--	--	269	15	--	C, --	800e	10	Irr	32	
2M1	R. F. Kleinschmit	Dr	1965	30	8	25	P, 7-25	13 16	3 7	Boulders Gravel	270	2	4- 7-65	C, 15	200	18	Irr	--	Li, FC, Pp 2½ hr.
2M2	do.	Dr	1965	43	8	28 2/3	P, 18 2/3-28 2/3	11	17	do.	270	1.9	5- 6-66	--	200	20	Irr	--	Lo, FC, Pp 1 hr.
2N1	E. A. Ries	Dg	1955	20	60	--	--	--	--	--	272	4½	--	C, 3	42e	--	Irr	4.5	
3C1	Sam Looney	Dr	1957	48	10	41	P, 31-41	Above 33	8+	Sand and gravel	265	12	5-25-57	--	--	--	Irr	--	Li.
3D1	do.	Dr	1957	107	10	107	P, 0-107	38 70	32 37	Gravel, fine Gravel and boulders	260	10	11-10-57	T, 15	500 150	67 28	Irr	--	Li, FC, CA, WL, Temp 52.
3E1	Shumaker Bros.	Dr	1957	35	8	35	P, 12-35	4	31	Gravel	260	10	6-19-57	--, 15	700	5	U	--	Lo, FC, Pp 1 hr.
3G1	Ira Neuschwander	Dr	1964	31	10	31	P, 23-31	25	6	do.	265	3.8	2-10-64	C, 10	240	20	Irr	28.5	Lo, FC, Pp 1 hr.
3K1	Hammond	Dr	1957	25	8	25	P, 18-24	20	5	do.	265	8	3- 9-57	C, 5	--	--	Irr	10	Lo, FC.
3N1	Shumaker Bros.	Dg	1938	20	84	--	Lumber	11	9	do.	260	12	--	C, 10	400e	6	Irr	20.9	Lo.

Table 1.--Records of representative wells in the lower Santiam River basin, Oregon--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		Type of pump and hp	Well performance		Use	Acres irrigated	Remarks
								Depth to top (feet)	Thickness (feet)	Character of material		Feet below datum	Date		Yield (gpm)	Drawdown (feet)			
11/2W-3P1	Ira Young	Dg	1952	10	36	10	P, 5-10	--	--	Gravel	265	4	--	C, --	500	1	Irr	17	
3Q1	Elmer Boshart	Dr	1951	25	6	--	--	--	--	--	268	12	--	C, 5	96e	--	Irr	6	
4D1	M. E. Walker	Dr	1934	20	8	20	P, 14-20	--	--	--	250	--	--	--, 15	200e	--	Irr	25	
4E1	Earl Pomeroy	Dr	1946	30	6	30	P, 20-30	--	--	--	250	10	--	C, 7½	180e	--	Irr	23	
4J1	Carl Barclay	Dr	1945	20	6	20	P, 17-20	--	--	--	260	9	--	C, 20	225e	--	Irr	30	
4N1	E. J. Richards	Dr	1957	24	8	24	P, 9-23	16	8	Sand, gravel, and boulders	255	11	9-16-57	--	350	0	Irr	--	Lo, FC, Pp 1½ hr.
4P1	Arthur Schmidt	Dr	1965	30	10	30	P, 21-29	18	12	Sand, coarse, and gravel	255	8.93 14	5- 3-66 7-27-65	--, 5	85b	--	Irr	--	Li, FC, Pp 1½ hr.
4Q1	do.	Dr	1960	30	6	30	P, 21-30	10	20	Sand and gravel	255	8	4- 9-60	C, 5	40b	3	Irr	--	Lo, FC, Pp 1 hr.
5A1	F. L. Richardson	Dg	1944	26	36	--	Concrete and lumber	3	23	do.	253	10	--	C, 15	400e	15	Irr	25	Lo.
5B1	Jay Richardson	Dr	1947	28	6	27	P, 21-27	--	--	--	250	16	--	C, 7½	200e	--	Irr	15	
5B2	L. J. Porter	Dr	1949	28	8	28	P, 20-28	--	--	--	250	16	--	C, 15	500e	5	Irr	30	
5C1	Kyle Folsom	Dr	1946	20½	10	20½	P, 8½-20½	--	--	--	251	8	--	C, 10 and 15	1,000	1½	Irr	60.9	
5C2	E. A. Miller	Dr	1949	21	4	21	--	--	--	--	251	10	--	C, 5	150e	--	Irr	13	
5C3	J. J. Loy	Dr	1951	26	6	26	P, 20-26	--	--	--	250	11	--	C, 15	400e	6	Irr	30	
5C4	Elmer Backman	Dr	1952	25	6	25	P, 19-25	--	--	--	251	12	--	C, 10	400e	5	Irr	19.6	
5C5	K. B. Folsom	Dr	1955	28	8	28	P, 13-28	--	--	--	250	8	--	C, 15	1,000	2	Irr	12.2	
5C6	do.	Dr	1961	22½	10	21½	P, 16-21	17	5	Gravel, medium	251	9	12- 1-61	C, 10	700	3	Irr	--	Li, FC, Pp 2 hr, Temp 52.
5C7	O. E. Sheffield	Dr	1963	28	8	28	P, 20-27	20	8	Sand, brown, coarse	251	8	5-23-63	C, 10	350	3	Irr	--	Lo, FC, Pp 2 hr.
5D1	Elmer Backman	Dr	1947	25	10	25	P, 19-25	--	--	--	250	12	--	--	180e	12	Irr	23.8	
5D2	E. A. Miller	Dr	1947	28	6	28	--	--	--	--	251	--	--	C, 10	300e	--	Irr	26.4	

Table 1.--Records of representative wells in the lower Santiam River basin, Oregon--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		Type of pump and hp.	Well performance		Use	Acres irrigated	Remarks
								Depth to top (feet)	Thickness (feet)	Character of material		Feet below datum	Date		Yield (gpm)	Drawdown (feet)			
11/2W-5F1	Schumaker Bros.	Dg	1940	14	48	--	Lumber	5	9	Gravel	255	9	--	C, 12½	600e	2	Irr	58.8	Lo.
5H1	F. L. Richardson	Dg	1942	10	72	--	Lumber	3	7	Sand and gravel	253	7	--	C, 15	400e	2	Irr	6.5	Lo.
5H2	do.	Dn	1948	23	5	23	P, 18-23	4	19	do.	253	11	--	C, 15	400e	14	Irr	12.5	
5J1	Bose Bros.	Dr	1953	30	10	30	P, 22-30	--	--	--	260	15	--	C, 25	500e	5	Irr	67	
5M1	E. K. Miller	Dr	1946	70	8	70	P, 50-70	--	--	--	251	21	--	T, 5	60e	--	Irr	14	
5P1	George Dwyer	Dr	1966	126	8	99½	B	52	53	Sand, black, and gravel	260	6	4-19-66	S, 10	120	34	Irr	17	Li, FC, Pp 3 hr.
5R1	W. H. Bilyeu	Dn	1949	20	4	20	P, 15-20	--	--	--	260	8	--	C, 10	300e	5	Irr	29	
6B1	G. C. Scheler	Dr	1956	74	8	74	P, 62-74	70	4	Gravel	249	8.71	6-17-66	T, 5	--	--	Irr	--	Li, FC, CA, WL, Temp 56.
6K1	Ernest Gourley	Dr	1940	60	8	60	P, 48-60	--	--	--	252	10	--	T, 15	300e	45	Irr	58.4	
7H1	Wilson Young	Dr	1952	100	8	80	P, 20-80	18 31	4 96	Gravel do.	265	8	--	T, 7½	250	22	Irr	17	Li.
7N1	O. L. Engel	Dr	1948	87	8	87	P, 21-30, 70-87	--	--	--	255	21	--	T, 7½	240e	40	Irr	24	
8B1	E. J. Richards	Dr	1946	30	12	30	P, 14-30	--	--	--	260	9	--	C, 10	350e	13	Irr	22	FC.
8B2	R. J. Brevig	Dr	1958	32	6	32	P, 25-31	27	5	Gravel, large	260	4½	5- 3-58	N	45b	All	U	--	Li, FC.
8E1	R. L. Jackson	Dr	1952	118	10	90	P, 20-31, 45-90	15 70	16 10	Gravel, brown, and sand Gravel and sand	265	15	--	--, 7½	150	35	Irr	19.4	Li.
8J1	Karl Arnold	Dr	1953	110	10	110	P, 95-110	--	--	--	263	21	--	T, 10	285	84	Irr	60	
9A1	Uarda Baltimore	Dr	1947	24	12	--	--	--	--	--	265	12	--	C, 5	300e	4	Irr	8.2	
9A2	C. L. Martinak	Dn	1951	21	3	21	--	--	--	--	265	12	--	C, 5	112e	--	Irr	10	
9B1	William Tapper	Dn	1952	22	4	22	P, 17-22	--	--	--	260	11	--	C, 5	80e	--	Irr	9	
9C1	J. E. Thomas	Dr	1949	20½	10	20½	P, 11-20½	--	--	--	260	9	--	C, 16	600	0	Irr	28.8	
9E1	Arvid Backman	Dr	1957	120	10	108	P, 50-70, 92-108	45 94 104	21 3 3	Sand, black, and gravel Sand, black Sand, black, and gravel	265	9	9-27-59	T, --	265	84	Irr	--	Li, FC, Pp 3 hr.

Table 1.--Records of representative wells in the lower Santiam River basin, Oregon--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		Type of pump and hp	Well performance		Use	Acres irrigated	Remarks
								Depth to top (feet)	Thickness (feet)	Character of material		Feet below datum	Date		Yield (gpm)	Drawdown (feet)			
11/2W-9F1	O. M. Christensen	Dr	1959	27	8	27	P, 17-25	13	12	Gravel	265	8	--	C, 10	400	15	Irr	24	Lo, FC.
9F2	R. H. Thomas	Dr	1961	20	6	20	P, 10-20	10	10	Sand, brown	265	8	5- 9-61	--	--	--	Irr	--	Lo, FC.
9H1	Clariol Hayes	Dr	1957	24	8	24	P, 14-24	20	4	Gravel	271	11	7- 1-57	--	300e	4	Irr	--	Li, Pp 8-10 hr.
9L1	M. L. Gingrich	Dr	1953	20	10	20	P, 14-20	--	--	--	270	8	--	C, 5	200	4	Irr	7.5	
10A1	Crawford Boyle	Dr	1953	40	6	40	P, 36-40	--	--	--	260	10	--	C, 5	104e	--	Irr	5.5	
10A2	Lee Bender	Dr	1966	40	8	40	P, 20-30	19	11	Sand and gravel	274	13	5-21-66	C, 15	200	3	Irr	--	Lo, FC, Pp 2 hr.
10B1	L. J. Ritzinger	Dr	1951	25	8	25	P, 21-25	--	--	--	273	12	--	C, 20	90e	--	Irr	12	
10B2	Lee Bender	Dr	1964	27	10	27	P, 16-27	17	9	Sand and gravel	273	9	4-20-64	N	175	15	U	--	Lo, FC, Pp 1 1/3 hr.
10C1	do.	Dr	1964	39	10	36	P, 25-36	26	12	Gravel, coarse	272	8	3-19-64	N	125	19	U	--	Li, FC; yield drops to 70 gpm during irrigation season.
10H1	Michael Flande	Dr	1948	25	6	25	P, 15-25	--	--	--	273	10	--	C, 10	255e	--	Irr	22	
10H2	L. J. Ritzinger	Dr	1955	30	8	30	P, 26-30	--	--	--	273	14	--	C, 7	90e	--	Irr	17	
10N1	R. T. Blankenbaker	Dr	1948	21	6	21	P, 18-21	--	--	--	275	12-15	--	--, 5	120e	--	Irr	11.25	
11E1	J. C. Turner	Dr	1947	28	8	28	P, 18-28	--	--	--	280	14	--	C, 7½	210e	--	Irr	17.4	
11E2	J. B. Henderson	Dr	1964	35	6	35	P, 25-35	23 27	4 5	Gravel, small to medium Boulders and gravel	275	16	8-19-64	--	20b	0	D	--	Li, FC, Pp 1 hr.
11F1	W. E. Meyer	Dr	1954	24	8	23½	P, 13-23	--	--	--	276	13	--	C, 10	140	22	Irr	21	
11F2	do.	Dr	1960	23	6	23	P, 13-22½	14	9	Gravel, coarse	276	6	5-12-60	--	60e	--	Irr	--	Lo, FC.
11H1	Gene Fallesen	Dr	1953	65	5	50	B	--	--	--	275	18	--	C, 2	40e	--	Irr	4	
11L1	Steve Helms	Dr	1965	30	10	30	P, 19-29	6	19	Gravel, coarse, and sand	275	16	7-19-65	--	200	6	Irr	--	Lo.
11M1	C. O. Pape	Dr	1940	37	8	30	P, 20-30	--	--	--	276	12	--	C, --	150e	--	Irr	26	
11Q1	L. L. Etzel	Dr	1951	45	8	45	P, 25-45	--	--	--	280	3	--	T, 15	105	40	Irr	43.13	

Table 1.--Records of representative wells in the lower Santiam River basin, Oregon--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		Type of pump and hp	Well performance		Use	Acres irrigated	Remarks
								Depth to top (feet)	Thickness (feet)	Character of material		Feet below datum	Date		Yield (gpm)	Drawdown (feet)			
11/2W-11R1	L. L. Etzel	Dr	1948	60	8	60	P, 40-60	--	--	--	280	8	--	T, 5	60	30	Irr	17.4	
14B1	Allen Wollam	Dg	1941	16	48	14	Wooden	--	--	--	285	6	--	C, 15	500e	12	Irr	19	
14B2	do.	Dr	1965	45	10	36	P, 28-35	18	14	Gravel and clay	285	15	7-21-65	--	50b	20	Irr	--	Li, FC, Pp 1/2 hr.
14C1	do.	Dr	1962	19½	10	19½	P, 15-19	--	--	--	280	--	--	C, 15	--	--	Irr	--	
14C2	Vernon Snoddy	Dr	1965	24	10	24	P, 18-24	14	10	Gravel and coarse sand	275	8	8-30-65	C, 15	225	1	Irr	--	Lo, Pp 1 hr.
14G1	R. C. Falk	Dr	1965	25	10	25	P, 18-25	18 20	2 5	Gravel, small, loose Gravel with clay streaks	280	10	7- 2-65	--	350	8	Irr	--	Lo, Pp 1 hr.
14G2	Clifford Whisenhunt	Dr	1965	23	10	23	P, 18-23	18	4	Gravel and coarse sand	285	10	7- 8-65	C, 10	300	1	Irr	10±	Lo, FC, Pp 1 hr.
14J1	do.	Dr	1965	23	10	20½	P, 18-20½	19 20	1 1	Gravel, small Gravel, coarse	285	5	7-21-65	C, 20	300	2	Irr	20±	Li, FC, Pp 1 hr.
14L1	Vernon Snoddy	Dr	1964	25	10	25	P, 18-24	14	11	Sand, coarse, and medium gravel	285	7	5-20-64	C, 20	100b	0	Irr	--	Lo, FC, Pp 1 hr, Temp 50.
15F1	R. L. Meyer	Dr	1959	27	10	26 3/4	P, 17-26	--	--	--	282	8	--	C, 10	600	9	Irr	34	
15F1	Mrs. W. H. Faulkner	Dr	1948	27	10	20	P, 13-20	14	13	Sand and gravel	280	8	--	C, 19	240e	--	Irr	20	Lo.
15G1	J. R. Peterson	Dr	1951	22	10	20	P, 15-20	--	--	--	280	10	--	C, 5	96e	--	Irr	29.5	
15K1	Swander Bros.	Dr	1952	22	8	22	P, 16-22	12	9	Gravel	285	11	--	C, 16	350	1	Irr	25	Li.
15L1	E. L. and J. R. Perry	Dr	1948	27	10	27	P, 22-27	--	--	--	280	9	--	C, 7½	1,500	8	Irr	41	
15L2	Gale Burkhart	Dr	1955	20	10	20	P, 14-20	--	--	--	285	12	--	C, --	600	3	Irr	59.5	
15M1	Mrs. W. H. Faulkner	Dr	1950	24	10	20	P, 14-20	18	6	Gravel	280	8	--	C, 19	240e	--	Irr	19	Lo.
15R1	L. W. Blacklaw	Dr	1949	25	8	25	P, 19-25	--	--	--	285	16	--	C, 15	400	5	Irr	24.9	
16B1	Webber Doughton	Dr	1945	35	4	35	--	--	--	--	273	8	--	C, 20	700	11	Irr	70	

Table 1.--Records of representative wells in the lower Santiam River basin, Oregon--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		Type of pump and hp	Well performance		Use	Acres irrigated	Remarks
								Depth to top (feet)	Thickness (feet)	Character of material		Feet below datum	Date		Yield (gpm)	Drawdown (feet)			
11/2W-16B2	Webber Doughton	Dr	1959	29	6	29	P, --	--	--	Gravel and sand	273	10	8- 2-59	C, 20	--	--	Irr	--	FC.
16D1	do.	Dr	1959	27	6	25	B	25	2	Gravel	272	2	3-30-59	--	80b	12	Irr	--	Li, Pp 2 hr.
16G1	do.	Dr	1962	20	10	19	P, 13-19	11 14	3 6	Gravel, very large Gravel, medium	274	7	7-19-62	C, 20	500	6	Irr	--	Lo, FC, Pp 2 hr, Temp 52.
16J1	do.	Dr	1954	35	6	35	P, 32-35	--	--	--	274	12	--	C, 20	300	13	Irr	30	
16Q1	A. J. Wilson	Dg	1928	9	42	--	Wooden timbers	3	6	Gravel	278	3.2	8- 3-28	C, --	120e	5±	Irr	--	Lo, FC, Pp 4 hr.
16R1	R. K. Wilson	Dg	1960	24	10	--	P, 17-23	17	6	Sand and gravel	276	6	4- 4-60	C, 25	550	4	Irr	±60	Li, FC, Pp continuously, Temp 52.
17R1	F. V. Kropf	Dr	1951	100	8	97	P, 20-25, 26-31, 41-56, 61-94	23 41 61	8 15 34	Gravel Gravel and sand do.	280	8	--	T, 5	110	45	Irr	5.4	Li.
18L1	M. E. Glaser	Dr	1952	105	8	105	P, 80-105	--	--	--	265	15	--	T, 15	260	55	Irr	38	
20J1	Spicer School	Dn	p1928	80	1½	70	B	80	--	Gravel	287	8.25	8- 2-28	Pitcher	< 3e	--	Inst	--	Li, FC, Temp 56.
21A1	Ira Beckler	Dr	1965	28	8	25 2/3	P, 19 2/3-25 2/3	19	7	Sand and gravel	280	10	10-29-65	--	550	3	Irr	--	Lo, FC, Pp 1 hr.
21G1	W. E. Barker	Dr	1933	40	6	40	P, 20-40	--	--	--	285	--	--	C, --	35e	--	Irr	19	
21H1	do.	Dr	1952	40	6	40	P, 20-40	--	--	--	285	3.5	--	C, 10	110e	--	Irr	19	
21H2	E. N. Dalby	Dr	1957	21	6	21	P, 12½-21	12	9	Gravel, brown, coarse	281	7	8-23-57	C, 5	45b	1	Irr	3	Li, FC, Pp 1 hr.
21J1	Santiam Valley Nurseries	Dr	1944	30	8	30	P, 18-30	--	--	--	290	9	--	C, 7½	200e	--	Irr	18	
21J2	Harold Lines	Dg	1945	32	8	32	P, 15-32	10	22	Gravel and boulders	290	10	--	C, 15	200 600	2/3 1	Irr	40	
21J3	George Hannaford	Dg	1955	15	120	--	--	--	--	--	295	6	--	C, 15	190e	--	Irr	56	
22A1	Myrtle Donovan	Dr	1952	22	8	22	P, 17-22	--	--	--	290	8	--	C, 10	200e	1	Irr	16.7	
22D1	Gale Burkhart	Dr	1954	20	10	20	P, 10-20	--	--	--	285	12	--	C, 15	600	3	Irr	84.6	

Table 1.--Records of representative wells in the lower Santiam River basin, Oregon--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		Type of pump and hp	Well performance		Use	Acres irrigated	Remarks
								Depth to top (feet)	Thickness (feet)	Character of material		Feet below datum	Date		Yield (gpm)	Drawdown (feet)			
11/2W-22G1	Swander Bros.	Dr	1952	21	8	20	P, 14-20	10	11	Sand and gravel	290	--	--	C, 16	350e	--	Irr	12	Lo.
22H1	Lauree Cunningham	Dr	1951	21	8	20	P, 14-20	14	7	Gravel and sand	290	7	--	C, 15	350	1	Irr	12	Lo, FC, CA, Temp 52.
22N1	Santiam Valley Nurseries	Dr	1959	27	8	27	P, 21-26	21	6	Sand and small gravel	292	14	8- 7-59	C, 26	450	10	Irr	--	Li, FC, Pp 2 hr, Temp 51.
23D1	C. E. Jones	Dr	1957	20 1/3	8	19 1/3	P, 14-19	9	8	Sand and gravel	290	9	8-16-57	N	--	--	U	--	Lo, FC.
23E1	Lauree Cunningham	Dr	1954	20	10	20	P, 12-20	10	11	do.	292	10	--	T, 15	450e	1½	Irr	25.4	Lo; well deepened to 25 feet in 1965.
23L1	C. G. and H. P. Lacer	Dr	1953	25	8	25	P, 20-25	--	--	--	292	12	--	C, 15	300e	3	Irr	21	
23M1	Lauree Cunningham	Dr	1964	23	10	23	P, 10-23	12	11	Gravel	295	6	5-22-64	--	650	1½	Irr	--	Lo, FC, Pp 1½ hr.
23P1	Max Burkhart	Dr	1952	25	8	25	P, 0-25	--	--	--	300	10	--	C, 15	700	2	Irr	31	
23P2	do.	Dr	1958	28	8	26	P, 15-26	17	7	Sand, coarse, and gravel	300	14	10-23-58	--	425	2	Irr	--	Li, FC, Pp 2 hr.
23Q1	H. A. Gregson	Dr	1954	24	10	24	P, 18-24	--	--	--	300	12	--	C, 5	250e	4	Irr	10.5	
23R1	do.	Dr	1954	24	10	24	P, 18-24	--	--	--	300	12	--	C, --	250e	4	Irr	11.8	
24B1	Griggs School	Dr	p1928	73½	4	--	--	--	--	--	305	5.15	8- 3-28	--	< 5e	--	Inst	--	FC, CA, Temp 54.
24Q1	G. W. Call	Dr	1951	22	4	22	P, 16-22	--	--	--	312	8	--	C, 20	500	12	Irr	25	
25N1	Jack Alley	Dr	1942	72	8	36	P, 20-36	--	--	--	310	--	--	C, 15	360e	--	Irr	27	
26A1	Roy Fitzwater	Dr	1942	57	8	57	P, 25-57	--	--	--	305	14	--	C, 20	400e	--	Irr	109.6	
26C1	D. G. Christenson	Dg	1948	14	60	12	Cement	8	6	Gravel	300	6	--	C, 3	150e	--	Irr	3	Lo.
26C2	Max Burkhart	Dr	1950	25	8	25	P, 0-25	--	--	--	302	10	--	C, 20	700	2	Irr	78	
26C3	H. M. Dummert	Dr	1952	23	6	23	P, 15-23	--	--	--	305	10	--	C, 2	40e	--	Irr	1.7	
26C4	F. M. Shores	Dg	1952	15	36	15	Wood	--	--	--	295	11	--	C, 30	84e	--	Irr	5.25	
26C5	C. J. Spires	Dg	1955	18	300	--	Pit	10	8	Gravel	300	10	--	C, 2	200e	2	Irr	4.5	Lo.
26C6	Gary Shanks	Dr	1958	23	10	22½	P, 18-22	15	18	do.	305	14	9-10-58	C, 5	100	0	D,Irr	4	Li, FC.

Table 1.--Records of representative wells in the lower Santiam River basin, Oregon--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		Type of pump and hp	Well performance		Use	Acres irrigated	Remarks
								Depth to top (feet)	Thickness (feet)	Character of material		Feet below datum	Date		Yield (gpm)	Drawdown (feet)			
11/2W-26D1	L. C. Carter	Dr	1961	23	6	23	P, 18-23	12	11	Sand and gravel	259	11	5-12-61	C, 5	100b	0	D,Irr	--	Lo, FC, Temp 52.
26E1	Max Burkhart	Dr	1950	30	10, 8	25	P, 0-25	--	--	--	300	--	--	C, 15	700	3	Irr	39.5	
26F1	Marvin Ufford	Dr	1942	20	8	20	P, 12-20	--	--	--	305	10	--	C, 15	600+e	--	Irr	52.4	
26F2	F. J. Luscher	Dr	1964	23	10	23	P, 18-23	18	5	Gravel, coarse, and sand	300	11½	9-29-64	C, 10	300	1	Irr	--	Li, FC, Temp 54.
26F3	do.	Dr	1964	34	10	--	--	12	11	Gravel and clay	300	--	--	N	90e	--	U	--	Li, FC, sealed and abandoned.
26G1	Myrtle Donovan	Dr	1943	25	8	25	P, 20-25	--	--	--	307	8	--	C, 10	200e	1	Irr	21.8	
26H1	L. W. Blacklaw	Dr	1950	25	10	25	P, 19-25	--	--	--	305	15	--	C, 15	500	3	Irr	12.2	
26H2	J. O. Andrews	Dr	1952	20	6	--	--	--	--	--	305	14	--	C, 2	40e	--	Irr	5	
26J1	L. W. Blacklaw	Dr	1952	25	10	25	P, 19-25	--	--	--	307	15	--	C, 10	350	4	Irr	7	
26J2	Mary Blacklaw	Dr	1952	25	10	25	P, 19-25	--	--	--	310	15	--	T, 25	1,000	4	Irr	74.7	
26L1	Marvin Ufford	Dr	1959	20	8	20	P, 11-20	--	--	--	305	9	9- 3-59	C, 10	--	--	Irr	25	FC.
26R1	L. C. Donovan	Dr	1957	25	8	25	P, 13-25	11 20	9 5	Sand and gravel Sand and gravel with yellow clay	312	11	11-30-57	C, 15	300	5	Irr	--	Li, Pp 5 hr, Temp 54.
27A1	Ivan Ayers	Dr	1960	30	8	25	P, 9½-25	5	20	Gravel	300	5	--	C, 15	60b	0	Irr	--	Li, FC, Temp 51.
27H1	Fred Hageman	Dr	1955	26	10	26	P, 14-26	--	--	--	305	13	--	C, 5	150e	--	Irr	17	
27J1	Ivan Ayers	Dg	1953	6	72	--	Wooden	--	--	--	310	5	--	--, 20	500e	--	Irr	53	
29H1	Neal Hollingsworth	Dr	1959	145	8	93	P, 50-87	40	50	Gravel and clay	290	2.41	6-14-66	T, 15	400	57	Irr	--	Li, FC, WL, Pp 3 hr, H.
30A1	R. V. Cox	Dr	1953	138	8	138	P, 104-107, 118-138	--	--	--	280	8	--	T, 20	200	100	Irr	50	
30E1	N. V. Bos	Dg	1946	8	48	--	Wooden	--	--	--	278	--	--	C, 10	190e	--	Irr	25	
34G1	Ira Beckler	Dr	1953	60	6	50	P, 40-50	--	--	--	312	15	--	C, 5	100e	--	Irr	6	
34J1	G. C. Mitchell	Dr	1951	26	10	24	P, 12-24	--	--	--	318	14	--	C, 25	750e	--	Irr	66.1	

Table 1.--Records of representative wells in the lower Santiam River basin, Oregon--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		Type of pump and hp	Well performance		Use	Acres irrigated	Remarks
								Depth to top (feet)	Thickness (feet)	Character of material		Feet below datum	Date		Yield (gpm)	Drawdown (feet)			
11/2W-34P1	C. M. Bryant	Dr	1958	118	6	118	P, 65-118	--	--	--	323	10	--	T, 15	220	50	Irr	30	
35A1	Sylva Carter	Dr	1942	89	8	89	P, 70-89	--	--	--	312	20	--	C, 20	400	5	Irr	26.1	
35B1	Edward Douglas	Dr	1952	26	10	26	P, 16-26	--	--	--	310	14	--	C, 20	500	16½	Irr	66.8	
35C1	G. H. Meyer	Dr	1952	45	6	45	P, 41-45	--	--	--	312	12	--	C, 7½	154e	2	Irr	20	
35C2	James Pesek	Dr	1957	20	6	20	P, 12-20	18	2	Sand and gravel	313	12	6-18-57	C, 5	96	0	Irr	24	Lo, FC, Pp 24 hr.
35D1	R. F. Meyer	Dr	1961	27	12	26	P, 20-26	10	14	Gravel, very coarse, with sand	312	10	4-28-61	C, 10	500	7	Irr	--	Li, Pp 2 hr, Temp 52.
								24	3	Gravel, coarse, with clay									
35E1	G. C. Mitchell	Dr	1951	32	10	32	P, 12-32	--	--	--	315	14	--	C, 20	350e	--	Irr	61.4	
35F1	A. C. Raines	Dr	1947	65	6	65	P, 20-65	--	--	--	312	11	--	C, 5	200	1½	Irr	7	
35G1	J. E. C. Fresner	Dr	1952	30	6	30	P, 15-30	--	--	--	312	14	--	C, 5	400	½	Irr	8	
35G2	Alfred Nofziger	Dr	1962	20	6	20	P, 18-20	17	3	Gravel	313	7½	4- 9-62	C, 5	120	1½	Irr	3-5	Li, FC, Pp 1 hr.
35J1	D. G. Christenson	Dr	1955	30	10	30	P, (?)-25	12	30	do.	320	25	--	C, 15	--	--	Irr	46	Lo, FC.
35J2	C. R. McCormick	Dr	1959	28	10	28	P, 23-27	17	11	Sand, brown, and gravel	325	15	5-13-59	--	600	4	Irr	--	Lo, FC, Pp 2 hr, Temp 51.
35K1	W. H. Long	Dr	1953	31	8	31	P, 15-31	--	--	--	324	14	--	C, 20	400	20	Irr	43.5	
35K2	C. H. Bicek	Dg	1953	25	39	25	Concrete tile	20	5	Gravel, coarse	320	18	--	C, 5	200e	4	Irr	10	
35P1	Sylva Carter	Dr	1952	29	8	29	P, 22-29	--	--	--	325	12	--	C, 15	400	4	Irr	44.9	
35R1	D. H. and Z. L. Morris	Dr	1951	45	8	45	P, 30-45	--	--	--	325	15	--	C, 5	200e	5	Irr	11	
36D1	Ethan Hull	Dr	1952	23	8	23	P, 13-23	--	--	--	314	13	--	C, 15	330	6	Irr	59	
36D2	C. A. Jackson	Dr	1953	23	6	23	P, 17-23	16	7	Gravel, coarse	314	11	--	C, 3	200e	1	Irr	5	Lo.
36E1	L. C. Donovan	Dr	1960	30	8	27	P, 15-27	9	16	Sand, brown, gravel and silt	318	9	4- 7-60	--	400	1	Irr	--	Li, Pp 3 hr.

Table 1.--Records of representative wells in the lower Santiam River basin, Oregon--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		Type of pump and hp	Well performance		Use	Acres irrigated	Remarks
								Depth to top (feet)	Thickness (feet)	Character of material		Feet below datum	Date		Yield (gpm)	Drawdown (feet)			
11/2W-36N1	C. R. McCormick	Dr	1959	24	10	--	P, --	16	8	Gravel, large	323	15	8-18-59	--	600	1	Irr	--	Lo, FC, Pp 2 hr.
11/3W-1D1	Russell Lines	Dr	1963	30	10	21	P, 11-21	8	13	Sand and gravel	235	2.18 8	4- -66 10-28-63	--	88b	6	Irr	--	Li, FC, Pp 1 hr.
2C1	C. L. Koehler	Dr	1961	65	6	27	B	24	9	Sandstone, brown, fine	235	15.46	11-11-65	J, 1/3	17b	--	D	--	Li, FC.
2E1	John Kohlnhofer	Dr	1951	40	8	--	--	--	--	--	230	--	--	C, 2	50e	--	Irr	22	
2H1	M. C. Kennell	Dr	1955	97	10	27	P, 13-27	--	--	--	230	6	--	C, 7½	50e	--	Irr	17.5	
3A1	William Conrady	Dr	1965	40	6	37	P, 31-37	8 20	12 17	Gravel Sand and gravel	228	8	--	--	50	4	D	--	Li, Pp 1 hr.
3D1	Enos Noah	Dr	1954	91	8	91	P, 71-91	--	--	--	220	4	--	T, 5	100e	63	Irr	17.9	
4A1	Cleo Hinkhouse	Dr	1952	50	6	50	P, 46-50	--	--	--	220	8	--	J, 1	30e	--	Irr	2.7	
4A2	J. H. Arnett	Dr	1955	45	5	45	P, 38-45	38	7	Gravel and sand	220	17	8-14-55	--	20b	4	Irr	--	Lo, Temp 48.
4C1	Albany Floral Co.	Dr	1928	44	1 3/4	44	--	27 33	1 8	Gravel, "tight" Gravel, loose	206	18	8- 2-28	--, 1	15e	--	Irr	--	FC; irrigates hot houses.
4C2	do.	Dr	1929	120	4	50(?)	--	30 60 114	3 3 6	Gravel do. Sand, black, with gravel	206	--	--	T, --	50e	35	--	--	FC.
4C3	Roy Snoderly	Dr	1947	90	8	90	--	--	--	--	210	5	--	C, 4½	50e	--	Irr	1	
4G1	A. M. Ropp	Dr	1961	59	6	59	B	57½	1½	Gravel, loose, and sand	215	7 12.82	1-21-61 11-10-65	J, ½ J, ½	40b	13	D	--	Li, FC, CA, WL, Pp 1 hr, Temp 57.
5J1	D. E. Nebergall Meat Co.	Dr	1923	430	12	78	B	80	--	Gravel	200	10	--	--, 5	16e	21+	Ind	--	FC.
5J2	do.	Dr	1936	96	8	96	P, 78-96	86	10	Sand, black	200	18	--	T, 7½	125	60	Ind	--	Li.
5J3	do.	Dr	1944	106	10	106	P, 94-106	85	21	Sand, brown, and gravel	200	32	--	T, 2	60	80	Ind	--	Lo.
5R1	Tops Restaurant	Dr	1958	50	6	50	P, 32-39	25	25	Sand and gravel	215	8	1-19-58	J, 3	40	12	Ind	--	Lo, FC, Pp 2 hr; used for air conditioning.

Table 1.--Records of representative wells in the lower Santiam River basin, Oregon--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		Type of pump and hp	Well performance		Use	Acres irrigated	Remarks
								Depth to top (feet)	Thickness (feet)	Character of material		Feet below datum	Date		Yield (gpm)	Drawdown (feet)			
11/3W-8D1	Mountain States Power Co.	Dr	1929	50	8	46	P, 28-41	28 46	14 1	Gravel do.	225	--	--	--	60-65e	12½	--	--	Li, FC.
8D2	do.	Dr	p1938	38	18	--	--	15	16	Sand and gravel	225	--	--	--	250e	--	--	--	Lo, FC.
8K1	M. L. Cooley	Dr	1949	89	8	75	P, --	19 49 65	4 6 10	Gravel do. Gravel, blue, and sand, with clay streaks	200	35	--	J, 2	48e	--	Irr	20	Li.
8N1	Allan Steen	Dr	1964	57½	6	56	P, 46-56	25	10	Sand, medium-fine	227	15	5-10-64	T, ½	45b	0	D	--	Li, FC.
8R1	C. B. Wells	Dr	1952	63	6	63	P, 53-63	--	--	--	228	14	--	--, 2	30e	--	Irr	5	
9G1	Eugene Spear	Dr	1961	70	6	70	P, 66-69	65	5	Sand, black, and gravel	223	10.69 11	11-10-65 4-20-61	J, 1	70	59	D	--	Li, FC, Pp 1 hr, Temp 53.
9K1	A. F. Armstrong	Dr	1958	45	6	45	P, --	33	12	Sand and gravel	228	16	9-15-58	J, 1	--	--	D,Irr	--	Lo, FC.
9L1	Oregon Truck Leasing	Dr	1963	115	8	103	B	111	4	Gravel, black, medium	228	16	3- 7-63	S, --	400b	29	D	--	Li, FC, Pp 6 hr.
9N1	LeRoy Hanna	Dr	1950	50	6	50	P, 20-22, 46-50	--	--	--	228	--	--	J, 3	55e	--	Irr	10	
9N2	J. A. Whitaker	Dr	1952	42	6	42	P, 36-42	--	--	--	228	10	--	J, 1½	60e	--	Irr	5	
9R1	Al Mitchell	Dr	1966	146	10	145	P, 63-82, 126-143	47 130	37 16	Clay, blue Gravel	230	11	5-12-66	--	275	63	Irr	--	Lo, Pp 3 hr.
10A1	J. G. Burkhart	Dr	1948	165	12	165	P, 15-165	--	--	--	235	8	--	C, 15	340e	60	Irr	29	
10A2	M. O. Salmon	Dr	1955	149	8	149	--	--	--	--	235	12	--	T, 15	300e	45	Ind	--	
10N1	E. L. Gates	Dr	1954	108	8	98	P, 79-94	--	--	--	235	10	--	J, 1	50	40	Irr	20.2	
10R1	L. A. Kropf	Dr	1957	82	8	74	P, 44-72	52	22	Sand, black, fine	240	14	5- 3-57	T, 15	100	30	Irr	--	Li, FC.
12L1	F. C. Finch	Dr	1952	97	6	97	P, 77-97	--	--	--	245	6	Summer	--, 5	15f 280e	12	Irr, S	30	
13A1	L. A. Nelson	Dr	1953	92½	6	92	P, 83-92	70	22	Sand and gravel	255	2.56	6-14-66	T, 3	450	18	Irr	17.3	Li, FC, CA, WL, Temp 55.
13M1	R. W. Muller	Dr	1952	92	8	92	P, 65-92	--	--	--	255	8	--	C, 7½	300e	--	Irr	19	

Table 1.--Records of representative wells in the lower Santiam River basin, Oregon--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	Type of pump and hp	Well performance: Yield (gpm)	Well performance: Drawdown (feet)	Use	Acres irrigated	Remarks
11/3W-14F1	W. W. Hardin	Dr	1963	40	6	38	P, 30-38	31 35	4 5	Gravel, red Sand and gravel	255	11	8-14-63	J, 1/4	10b	--	D	--	Li, FC.
15C1	Sam Kennel	Dr	1952	142	8	132	P, 75-132	123	9	Sand, dark, and gravel	243	18	--	T, 10	135	115	Irr	48	Li, FC, WL.
16K1	Walter Nelson	Dr	1946	100	10	95	P, --	--	--	--	245	18	--	T, 5	140e	--	Irr	30	
16M1	Percy Heyerly	Dr	1948	138	8	130	P, 20-130	--	--	--	235	24	--	C, 7½	215	10	Irr	22.5	
16M2	Ray Cheland	Dr	1950	125	6	90	P, 40-90	--	--	--	240	14	--	--, 1½	30e	--	Irr	3.5	
16Q1	Grand Prairie School	Dr	1959	86	8	80	B	72	10	Sand, black, and gravel	245	22	9-11-59	J, 2	85b	0	Inst	--	Li, FC.
16Q2	Dick Miller	Dr	1960	73	6	72	P, 57-58, 66-71	57 66	9 7	Clay and gravel Sand, black, and gravel	245	22	7-26-60	--, 3	24b	6	D,Irr	--	Li, FC, Pp 2 hr, Temp 54.
17A1	Richard Cushing	Dr	1951	84	6	84	P, 64-84	--	--	--	228	16	--	T, 5	120	60	Irr	13.4	
17C1	Gene Foley	Dr	1956	35	6	35	B	28 33	5 2	Gravel Sand	226	--	--	--	18	10	D	--	Lo, Pp 2 hr.
17F1	J. B. Yelton	Dr	1949	129	6	129	P, 109-129	--	--	--	226	21	--	C, 2	75e	--	Irr	5.5	
17F2	J. T. Anderson	Dr	1960	70	6	66	P, 32-38, 58-64	29	37	Sand and gravel	226	14.49	11- -65	C, 1½	40b	½	D,Irr	--	Li, FC, CA, WL, Pp 2 hr, Temp 56.
17G1	Bonita [illegible]. Nelson	Dr	1953	50	8	50	P, 20-48	--	--	--	226	--	--	C, 3	48e	--	Irr	12	
17J1	Irvin Klaus	Dr	1953	92	6	27	--	--	--	--	230	15	--	C, 3	55e	--	Irr	6.4	
18K1	G. A. Palmer	Dr	1961	63	6	60	--	54	6	Sand, black, fine	225	20	--	--	35	20	D	--	Li, Pp 2 hr.
20K1	Oliver Schmucker	Dr	1949	113	8	113	P, 50-113	--	--	--	235	25	--	C, 7½	183	28	Irr	20	
20L1	Ted Wealand	Dr	1959	70	6	--	P, --	35 55	20 15	Sand, dark-brown, and gravel Sand, black, and gravel	230	15	--	--	4	2	Irr	--	Li, Pp 2 hr, Temp 53; water is "medium hard."
21Q1	Earl Lansing	Dr	1945	114	6	114	--	--	--	--	249	21	--	J, 2	25e	--	Irr	8	

Table 1.--Records of representative wells in the lower Santiam River basin, Oregon--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		Type of pump and hp	Well performance		Use	Acres irrigated	Remarks
								Depth to top (feet)	Thickness (feet)	Character of material		Feet below datum	Date		Yield (gpm)	Drawdown (feet)			
11/3W-25D1	Dan Stutzman	Dr	1951	114	8	114	--	--	--	--	273	18	--	C, 10	150e	--	Irr	30	
25M1	G. F. Siver	Dr	1950	87	8	87	P, 67-87	--	--	--	277	19	--	J, 5	105	56	Irr	16	
25P1	Inez G. Gilbert	Dr	1960	38	6	38	--	25	13	Gravel and sand	278	12	--	J, 1	40	4	D	--	Li, FC, Pp 2 hr, Temp 52.
26A1	Leonard Roth	Dr	1952	151	8	151	P, 74-90, 112-120, 132-151	74 90 144	16 46 7	Gravel Gravel and clay do.	272	14	11- 6-52	T, 10	225 120	120 70	Irr	29	Li, FC, CA, WL, Temp 56.
27C1	Homer Schlegel	Dn	1927	48	1½	30	--	20	28	do.	262	9.7	8- 3-28	--, 3	10e	--	D,S	--	Lo, FC, Temp 57; water is "medium hard."
27L1	Norman Walker	Dr	1965	95	6	94	P, --	72	13	Sand, black, and gravel	255	22	10-20-65	S, ½	30	27	D	--	Li, FC, Pp 1 hr.
28C1	Merlin Foster	Dr	1965	66	8	64	P, 24-44, 54-64	19 38	19 28	Gravel, black, and sand Sand, blue, and gravel	245	5	6-15-65	T, 7½	50	17	Irr	--	Li, FC, Pp 2 hr.
29J1	W. A. Graupmann	Dr	1945 1951	52 72	8	72	P, 65-72	62	10	Sand, black	245	12	--	T, 5	125	32	Irr	22	Li.
31L1	J. L. McFarland	Dr	1936	42	8	42	P, 30-42	--	--	--	235	14	--	C, 5	150	28	Irr, S	52.7	
32B1	H. L. Kropf	Dr	1952	70	6	70	P, 60-70	--	--	--	245	--	--	T, 5	60e	--	Irr	7.5	
32C1	H. W. Ehrlich	Dr	1952	122	10	102	P, 27-29, 35-39, 55-59, 99-102	27 29 36 54 90 104 108	2 7 5 11 14 4 14	Clay Gravel Clay Gravel Gravel and clay Sand, black Gravel, loose	243	35	--	T, 10	300	57	Irr	24	Li.
36D1	Philip Roth	Dr	1952	135	8	120½	P, 102½-120½	114	5	Gravel	278	11	--	--	200 110	100 57	Irr	±35	Li.
11/4W-1N1	Mountain States Power Co.	Dr	1928	46	--	None	--	12 35	16 1	Sand with very little gravel Crevice(?) in dark-gray shale	190	12-15	--	N	--	--	U	--	Li, FC.
1P1	do.	Dr	1928	37	--	None	--	15	8	Gravel	190	12	--	N	--	--	U	--	Lo, FC.

Table 1.--Records of representative wells in the lower Santiam River basin, Oregon--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		Type of pump and hp	Well performance		Use	Acres irrigated	Remarks
								Depth to top (feet)	Thickness (feet)	Character of material		Feet below datum	Date		Yield (gpm)	Drawdown (feet)			
11/4W-1R1	Albany Creamery Assoc.	Dr	1921	242	3	--	--	--	--	Shale	210	--	--	N	2½e	--	U	--	FC.
1R2	do.	Dr	1922	540	4 3	200 500	--	206	--	Sandstone in shale	210	26	7-27-28	N	2-15e	--	U	--	FC; salty taste.
1R3	do.	Dr	p1938	210	12	--	--	125	5	Shale with gravel	210	--	--	--	10e	--	--	--	Li, FC.
11F1	Heyman-Campbell Farms	Dr	1957	42	10	37	P, 23-37	22	14	Gravel	190	21½	11-15-57	--	200	2	Ind	--	Li, FC, Pp 1 hr.
12B1	Mountain States Power Co.	Dr	1928	95	6	None	--	12 38	12 < 1	do. "Rock"	195	12	--	N	75	--	U	--	Li, FC, Pp 8 hr.
12B2	do.	Dr	1928	46	--	--	--	12 35	12 1	Gravel Crevice(?) in black shale	195	12	--	N	--	--	U	--	Lo, FC.
12F1	Riverside Cemetery Assoc.	Dr	1957	125	8	43	G, 39-43	41 52 92 104	1 < 1 < 1 < 1	Sandstone, brown, fractured Crevice in blue rock do. do.	225	40	6-15-57	T, 5	97	45	Irr	--	Li, Temp 49.
12N1	Bonneville Power Adm.	Dr	1949	250	6	92	B	92	--	Shale	215	35	9-23-49	N	4	165	U	--	Li, FC.
12N2	do.	Dr	1949	36	6	35 1/3	--	30	4	Gravel	215	15	10- 3-49	T, 2	15	15	Inst	--	Lo, FC.
13C1	Pernal Dodele	Dr	1945	49	4	21	P, 17-21	--	--	--	215	18	--	T(?), ½	40e	--	Irr	1	
13C2	F. A. Weber	Dr	1950	92	4	45	B	--	--	--	218	20	--	J, 3/4	13e	--	Irr	1	
13F1	Tom Jackson	Dr	1956	40	6	32	G, 31-40	28	4	Gravel	210	--	--	--	30b	15	D	--	Li.
13J1	Albany Food Products, Inc.	Dr	1949	42	12	42	--	--	--	--	215	13	--	--, 25	25e	--	Ind	--	
13J2	Albany Frozen Food	Dr	1966	72	12	68	P, 43-68	20	52	Sand and gravel	215	14	7-18-66	T, 25	500	31	Ind	--	Li, Pp 12 hr, Temp 52.
13Q1	R. E. Chandler	Dr	1946	60	6	60	P, 50-60	--	--	--	210	--	--	C, 1½	20e	--	Irr	4	

Table 1.--Records of representative wells in the lower Santiam River basin, Oregon--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		Type of pump and hp	Well performance		Use	Acres irrigated	Remarks
								Depth to top (feet)	Thickness (feet)	Character of material		Feet below datum	Date		Yield (gpm)	Drawdown (feet)			
11/4W-14A1	Mountain States Power Co.	Dr	1929	104	--	--	--	15	17	Gravel, fine, and sand	200	14	--	N	--	--	U	--	Li.
15J1	Ed Roberts	Dr	1966	58	8	58	P, 46-57	48	10	Sand, black, and gravel	215	25	7-25-66	T, 3	90b	4	Irr	--	Li, FC, Pp 1 hr.
23K1	Northwest Natural Gas Co.	Dr	1960	250	10	211	B	38	5	Gravel	205	--	--	--	--	--	--	--	Li, FC; used as grounding bed.
23L1	F. H. Bowen	Dr	1959	44	6	42	P, 38-42	38	3	do.	210	12	12-10-59	--	25b	20	D	--	Lo, Pp 2 hr.
24B1	V. V. Ernston	Dr	1960	50	6	50	P, 47-49	43	7	do.	210	14	8-29-60	--	30b	15	D	--	Lo, Pp 2 hr.
24K1	Ray Maddy	Dr	1955	62	8	49½	P, 39-49	31 57	17 3	Gravel, partly cemented Gravel and sand	225	3	9-27-55	--	35b	10	Irr	--	Lo, FC, Temp 49.
25A1	Harold Shelton	Dr	1964	60	6	60	P, 55-59	55	5	Sand, medium, and gravel	225	15	6-17-64	T, 1/3	40b	30	D	--	Li, FC, Pp 2 hr.
34L1	Van Waters and Rogers	Dr	1966	51	6	50	P, 40-50	39	10	Gravel, medium	220	3	1-27-66	S, --	30b	10	Ind	--	Li, FC, Pp 1 hr.
35N1	O. H. Ehrlich	Dn	1916	31	1¼	30	--	31	--	Gravel	225	8.8 17.7	2- 2-29 10-21-28	N	< 3e	--	U	--	Li, FC.
36H1	McFarland School	Dn	p1928	26	1¼	--	--	23 40	3 --	Sand Gravel	235	13	8- 2-28	Suction	< 3e	--	Inst	--	Lo, FC, partial WL, Temp 54.
11/1-8L1	C. R. Duren	Dr	1963	85	6	18	B	67	18	Crevice in clay	555	14	8-19-63	S, ½	50b	All	D	--	Li, FC, Pp 1 hr.
29D1	Lacomb Brangus Farm	Dr	1964	250	6	91	B	180	10	Shale, black	800	30	8-31-64	S, 1	7b	120	D	--	Li, FC, WL, Pp 1 hr.
29N1	Fennie Cooper	Dr	1965	47	6	40	B	42	< 1	Top of blue clay	700	27	5-15-65	--	15	8	D	--	Li, Pp 1 hr, Temp 54.
12/1W-4P1	W. R. Gage	Dr	1965	148	6	20	B	35	78	Conglomerate, blue	440	12.77 19	4-13-66 6-27-65	N	8b	36	D	--	Li, FC, WL, Pp 1 hr, Temp 54.
7M1	Harry Gindhart	Dr	1947	64	6	6	B	--	--	"Rock"	440	30	--	--, 5	35e	15	Irr	9	
7P1	Reserve Oil & Gas Co.	Dr	1962	8,603	10	891	B	--	--	--	460	--	--	--	--	--	Test	--	Lo, FC; "Esmond 1" oil test well.
8H1	Lee Scott	Dr	1955	30	6	8	B	--	--	--	600	22	--	J, 1	25	22	Irr	6	

Table 1.--Records of representative wells in the lower Santiam River basin, Oregon--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		Type of pump and hp	Well performance		Use	Acres irrigated	Remarks
								Depth to top (feet)	Thickness (feet)	Character of material		Feet below datum	Date		Yield (gpm)	Drawdown (feet)			
12/1W-10C1	Hugh Clark	Dr	1946	146	6	24	B	--	--	--	450	143(?)	--	--, 5	125	80(?)	Irr	16	
11H1	Allan Todd	Dr	1965	92	6	35	B	70	20	Conglomerate, blue	490	27	10-25-65	S, ½	10b	18	D	--	Li, FC, CA, WL, Pp 1 hr, Temp 57.
19E1	Robert C. Sipe	Dr	1952	23	8	23	P, 18-23	--	--	Sand	365	14	--	--, 15	245 180	7 7	Irr	32.3	
19F1	J. J. Cramer	Dr	1949	81	6	20	B	--	--	--	375	--	--	C, 1½	20e	--	Irr	3.75	
19K1	C. M. King	Dr	1956	36	5	--	--	30	6	Gravel	380	--	--	--	110	1	U	--	Lo, FC, Pp 2 hr, Temp 52.
19L1	A. G. Bazant	Dr	1956	56	6	--	B	32	24	do.	375	8	--	--, ½	15	38	Irr	--	Li, FC, Pp continuously, Temp 52.
19Q1	Frank Kennedy	Dr	1958	23½	8	23½	P, 2-22	16	7½	Gravel	375	7 2/3	5- 1-58	--	350	0	Irr	--	Lo, Pp 1 hr.
21J1	Gary Kieper	Dr	1964	150	6	98	B	97	53	Sandstone and clay	405	8	9-20-65	S, 1	16b	110	D	--	Li, FC, WL, Pp 1 hr.
26B1	J. K. Lott	Dr	1958	75	5	75	P, 24-36	25 28 33	3 5 1	"Soapstone" Clay, blue "Soapstone"	435	4	4-14-58	--	18b	12	D	--	Li, Pp 1 hr.
26E1	Lyle Johnson	Dr	1953	60	6	60	P, 50-60	--	--	--	450	8	--	--, 2	40	48	Irr	5	
28N1	Lyle Bowers	Dg	1952	19	54	19	Wood	--	--	--	410	7	--	C, 3/4 C, 7	112	5	Irr	7.9	
28N2	do.	Dr	1964	19	8	19	B	14	5	Sand and gravel	410	11	1-28-64	C, 3/4	200	4	D,Irr	--	Li, FC, Pp 8 hr, Temp 52.
29D1	M. K. Grove	Dr	1946	63	6	63	P, 53-63	--	--	--	385	40	--	J, 1	50e	--	Irr	5	
29D2	C. A. Temple	Dg	1951	12	12	12	--	--	--	--	385	10	--	C, 1	45e	--	Irr	13	
29J1	George Vawter	Dr	1958	34	8	34	P, 20-34	32	2	Gravel	395	12	8-12-58	--	50	10	U	--	Lo, FC, Pp 1½ hr.
29N1	Pineway Golf Course, Inc.	Dr	1957	201	8	131	P, 80-120	100 136	4 15	Sand, soft Basalt, vesicular	410	8.56	5-12-66	C, 50 T, 40	700 225	100 70	Irr	--	Li, FC, CA, SpA, WL, Pp 3½ hr, Temp 55.

Table 1.--Records of representative wells in the lower Santiam River basin, Oregon--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		Type of pump and hp	Well performance		Use	Acres irrigated	Remarks
								Depth to top (feet)	Thickness (feet)	Character of material		Feet below datum	Date		Yield (gpm)	Drawdown (feet)			
12/1W-29P1	H. J. Griffiths	Dr	1958	60	6	54.7	P, 21-24	21 37	3 23	Boulders, cemented Gravel, fine, and sand	410	5	9- 6-58	S, --	40b	40	Irr	--	Lo, FC, WL, Pp 5 hr.
29Q1	Melvin Stenberg	Dr	1958	55	6	55	P, 35-38	36 52	4 3	Gravel do.	410	10	--	--	50	20	Irr	--	Lo, Pp 1½ hr.
30B1	Joe Reginbal	Dr	1966	60	10	60	P, 51-(?)	50	10	Sand, gravel, and yellow clay	375	18	10-21-66	--	60b	0	Irr	--	Lo, Pp 1 hr, Temp 52.
30R1	Pineway Golf Course, Inc.	Dr	1957	442	8	75½	B	219	10	"Rock," red	435	16.11	6-14-66	N	15½	108	U	--	Li, FC, WL, Pp 1 hr.
30R2	do.	Dr	1957	226	8	40 5/6	P, 20-40	-- 30 43	30 13 4	Sand and gravel "Rock, broken" "Rock," red	410	10	6- -57	--	30	96	Ind	--	Lo, FC, Pp 2½ hr.
30R3	J. A. Johnson	Dr	1958	130	6	42	B	42	88	Shale and limestone	480	42	4-30-58	--	7b	All	D	--	Lo, Temp 52.
33D1	G. C. Metcalf	Dn	1950	19	2	19	B	--	--	--	410	12	--	J, 1/2 J, 1/4	17e	--	Irr	3	
33D2	H. F. Guinn	Dr	1952	68	5	--	--	--	--	--	410	10	--	--, 1	15	40	D,Irr	5.5	
12/2W-2B1	W. W. Collins and others	Dr	1955	28	8	28	P, 22-27	19	6	Gravel, coarse	330	17	--	C, 10	200e	5	Irr	20	Lo.
2B2	Dillard, Lena	Dr	1957	26	8	26	P, 16-22	14	12	Gravel and sand	330	--	--	--	50	0	Irr	--	Lo, FC.
2C1	Kenneth Watters	Dr	1957	100	10	38	P, 20-23, 30-37	20 25 81	5 11 19	Clay, brown, and gravel Gravel, blue Sand, black, and gravel	335	21.48	6-14-66	T, 5	300	22	Irr	--	Li, FC, WL, Pp 3 hr, Temp 54, H.
2D1	W. H. Long	Dr	1942	69	8	50	B; P, 10-50	--	--	--	330	15	--	C, 20	640	18	Irr	32	
2F1	Kenneth Watters	Dr	1947	33	10	33	P, 18-33	--	--	--	335	18	--	C, 20	125e	28	Irr	29.3	Wells 12/2W-2F1 and 2F2 Pt.
2F2	do.	Dr	1949	92	10	92	P, 18-92	--	--	--	335	18	--	--	75e	28	Irr	--	Wells 12/2W-2F1 and 2F2 Pt.

Table 1.--Records of representative wells in the lower Santiam River basin, Oregon--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		Type of pump and hp	Well performance		Use	Acres irrigated	Remarks
								Depth to top (feet)	Thickness (feet)	Character of material		Feet below datum	Date		Yield (gpm)	Drawdown (feet)			
12/2W-2F3	R. C. Raines	Dr	1953	132	6	40	B; P, 10-40	--	--	--	330	20	--	T, 5	84	70	Irr	6	
2F4	Carlton Mary	Dr	1956	31	10	--	P, near bottom	15	16	Gravel	330	14	6- -56	--	600	4	Irr	--	Lo, FC, Pp 2 hr, Temp 51.
2H1	E. R. Liggett	Dr	1963	41	10	30	B	34	2	Sand, black	325	12.6	7-13-63	N	50b	13	U	--	Li, FC, Pp 1 hr.
2Q1	A. S. Baker	Dr	1964	27	8	27	P, --	1	26	Sand and gravel	335	½ 6	4-4-63 7-9-64	N	104	8	U	--	Lo, Pp 4 hr.
3A1	R. B. Alley	Dr	1958	65	10	36	P, 27-35	20 56	13 5	Gravel with sand Sand, black, and gravel	330	16½	5-29-58	C, 10	500	6	Irr	--	Li, Pp 3 hr, Temp 52.
3C1	L. A. LaFond	Dr	1960	86	6	83½	P, 74-83	82	4	Gravel	320	4	4-25-60	--	40b	20	Irr	--	Lo, Pp 1½ hr.
3G1	Glenn Hoston	Dr	1948	120	8	120	P, 20-45	--	--	--	330	--	--	J, 15	400e	--	Irr	19	
3J1	Sarah J. Morris	Dr	1953	28	8	28	P, 18-28	--	--	--	335	10	--	--	300e	--	Irr	26	
3R1	D. A. Reeves	Dr	1949	90	8	90	P, 20-60	--	--	--	335	--	--	T, 10	65	15	Irr	17.5	
4P1	E. R. Draper	Dr	1950	60	12	60	P, 50-60	--	--	--	320	16	--	T, 7½	200e	30	Irr	29	
7E1	C. N. Whitney	Dr	p1928	49	3	21½	B	--	--	Clayey gravel near bottom	310	--	--	--	--	--	D	--	Lo, FC.
10A1	Roy Walker	Dn	1928	61	1½	43	B	58	3	Gravel	337	8	8- 2-28	--	<3e	--	D	--	Li, FC.
10B1	Shell Oil Co.	Dr	--	67	4	31	--	60	7	Sand and gravel	335	--	--	--	--	--	Ind	--	Lo, FC.
10L1	William Holzfuss	--	1958	53	4	--	P, 22-51	20	29	do.	337	--	--	C, 1½	--	--	D, Irr	--	Lo, FC.
11L1	Sol Lindley	Dr	p1928	82	4	36	--	8	28	Gravel and sand	340	--	--	--	--	--	--	--	Li, FC.
11N1	Mountain States Power Co.	Dr	1918±	115	6	85	--	85	30	Sand, coarse	340	5	8- 2-28	--, ½	130	2	Inst	--	Lo, FC, CA, Temp 54.
12J1	A. E. Grobe	Dr	1959	126	6	19	B	101	9	Sand and gravel	455	52	9-13-59	J, 1	10b	20	D	--	Li, FC, Pp ½ hr.
13L1	J. D. Morse	--	1963	155	5½	--	--	--	--	--	440	93	12-23-63	S, 1½	30e	--	Irr	--	Lo, Temp 54.
14B1	S. H. Landstrom	Dg	1932±	16	60	--	Concrete	11±	2½±	Gravel, loose, coarse	346	7	1- 1-41	C, 1½	120-150e	--	Irr	80	Lo, FC, WL.

Table 1.--Records of representative wells in the lower Santiam River basin, Oregon--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		Type of pump and hp.	Well performance		Use	Acres irrigated	Remarks
								Depth to top (feet)	Thickness (feet)	Character of material		Feet below datum	Date		Yield (gpm)	Drawdown (feet)			
12/2W-14E1	McPherson Lumber Co.	Dr	1960	40	8	40	P, 0-40	39	1	Sand, brown, and gravel	345	1	3-23-60	--	40	18	Ind	--	Li, Pp 1 hr.
14K1	J. A. Viles	Dr	1960	42	6	42	P, 37-42	41	1	Gravel	355	15	8-29-60	J, 1½	40	12	Irr	--	Lo, FC, Pp 1½ hr.
14N1	J. W. and M. C. Alvin	Dr	--	63	8	--	--	--	--	--	355	--	--	T, ½	--	--	S, Irr	4.5	FC.
15B1	J. H. Irvine	Dr	1964	62	6	58	B	58	4	Sand, brown	340	14	7-29-64	--	20b	26	Irr	--	Li, Pp 1 hr; first water at 30 ft.
15M1	J. A. Anthony	Dr	1950	60	10	54	P, 37-39	--	--	--	345	--	--	C, 2½	60e	--	Irr	2	
16E1	Otta	Dr	1959	68	8	68	P, 35-68	34 48 60	7 3 8	Sand and gravel do. do.	325	8	8-18-59	J, ½	90b	12	D, Irr	--	Li, FC, Pp 2 hr.
16L1	J. C. Luscher	Dr	1952	54	12	50	P, 10-50	--	--	--	335	21	--	--, 7½	100e	--	Irr	16.8	
18C1	Henry DeManette	Dr	1958	175	10	92	B	86	21	"Rock, broken"	310	12	10- 2-58	T, 10	135	95	Irr	--	Li, FC, CA, WL, Pp 24 hr, Temp 56, H.
22F1	L. A. Muller	Dr	1964	95	6	84	P, 62-83	68 77	9 8	Sand, black, and gravel Gravel, black	355	4	3-10-64	--	50	3	Irr	--	Li, FC, Pp 1 hr.
23B1	Cascade Plywood Corp.	Dr	1957	171	6	171	--	--	--	--	360	4½	12-30-57	--	70	15	Ind	--	Li, FC, Pp ½ hr.
23B2	U.S. Plywood Corp.	Dr	1963	260	8	210	B	210 210	>1 48	Bottom of blue clay, sand, and gravel Sandstone	360	30	9-23-63	--	1½b	All	U	--	Li, FC; high salinity.
23B3	do.	Dr	1965	220	10	220	--	124	11	Sand and gravel	360	30 47	11-18-63 7-22-65	--	250	100	Ind	--	Lo, FC, Pp 3 hr, Temp 52; salt water below 183 ft.
23K1	Crowfoot School	Dr	1966	81	10	80	B	68 80	12 1	do. Sand, gravel, and clay	370	21	2-14-66	--	120	49	D, Irr	--	Lo, Pp 3 hr, Temp 52; pH 7.2.
23P1	J. T. Hermans	Dr	1950	70	8	70	P, 60-70	--	--	--	367	20	--	--, 5	100	10	Irr	32	
24C1	M. A. Richards	Dr	1952	19	10	19	P, 0-19	--	--	--	355	9	--	C, 5	120e	--	Irr	11	
24D1	A. Hetzendorf	Dr	1951	19	10	19	B	--	--	--	355	8	--	C, 5	150e	4	Irr	10.8	

Table 1.--Records of representative wells in the lower Santiam River basin, Oregon--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		Type of pump and hp	Well performance		Use	Acres irrigated	Remarks
								Depth to top (feet)	Thickness (feet)	Character of material		Feet below datum	Date		Yield (gpm)	Drawdown (feet)			
12/2W-24H1	C. G. Rogers	Dr	1959	61	6	60	B	56	5	Sand, brown	360	12	5-19-59	T, 5	40	9	Ind	--	Li, Pp 1 hr.
24H2	R. I. Brown	Dr	1961	24½	6	24	P, 12-24	--	--	Gravel and boulders	360	10	3- -61	--	--	--	Irr	1±	FC.
24H3	Carl Morrison	Dr	1965	27	8	27	P, 20-27	19 26	7 1	Sand and gravel, "hard" Sand and gravel, loose	360	13½	7- 9-65	--	60b	2	Irr	--	Lo, Pp 1 hr, Temp 54.
24K1	Harvey Duerksen	Dr	1953	35	6	35	P, 0-20	--	--	--	370	--	--	C, 5	100e	--	Irr	14	
25G1	E. H. Eilers	Dr	1958	42	6	29	B	38	4	Shale, broken	395	7	3- 3-58	--, 1	50b	11	D	--	Li, Pp 1 hr.
27K1	J. W. Miller	Dr	1962	129	6	70	B	100	27	Sand, black, "hard"	450	39	9-14-62	--	30b	3	S	--	Li, FC, Pp 1 hr, Temp 52.
12/3W-3A1	R. H. Murphy	Dr	1947	69	10	69	P, 8-69	--	--	--	270	4	--	T, 7½	150e	--	Irr	48.25	
4E1	T. L. Kuhns Co.	Dr	1966	108	6	108	P, 103-105	103	5	Sand, black, and gravel	252	3.5	4-21-66	--	40b	20	Ind	--	Li, FC.
5B1	H. J. Clement	Dr	1966	111	8	94	P, 81-92	75	15	Sand, brown, and gravel	248	13	7-30-66	--	100b	5	Irr	--	Li, Pp 1 hr.
5K1	G. N. and H. C. Chandler	Dr	1952	111	8	111	P, 58-111	58	53	Gravel, clay, and sand	252	20	--	T, 10	150 250	45 68	Irr	42	WL.
6E1	Woodward, Clyde, Sherard, and Associates	Dr	1965	88	8	88	P, 75-88	70	16	Sand, black, and gravel	245	17	10-19-65	--	365	67	Ind	--	Li, FC, Pp 2 hr.
7E1	City of Tangent	Dn	p1928	45	1½	36 or 40	Screen at base	42	3	Gravel	245	10.75	8- 2-28	--	30e	--	PS	--	Li, FC, CA, Pp 6-7 hr; water is hard.
7E2	Tangent Fire Dept.	Dr	1961	88	10	86	P, 72-86	79	8	Sand, black, and gravel	245	3 1/3	5-10-61	--	300	63	PS	--	Li, Pp 2 hr.
7M1	Tangent Elementary School	Dr	1965	90	8	88.4	P, 78-88	75	13	do.	245	17	8- 4-65	S, 3	85b	0	Inst	--	Lo, Pp 2 hr.
9R1	J. H. Swatzka	Dg	p1928	20	30	20	Dry brick	18	2	Gravel	273	9.6	7-28-28	--	--	--	D	--	Li, FC, partial WL.
11H1	C. G. Nofziger	Dn	1928	25	1½	25	Screen at base	20	5	do.	290	6	--	--	--	--	--	--	Li, FC.

Table 1.--Records of representative wells in the lower Santiam River basin, Oregon--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		Type of pump and hp	Well performance		Use	Acres irrigated	Remarks
								Depth to top (feet)	Thickness (feet)	Character of material		Feet below datum	Date		Yield (gpm)	Drawdown (feet)			
12/3W-12A1	G. L. Jackson	Dr	1962	157	10	125½	B	128	7	Sand, black, and gravel	295	2	7- 2-62	--	720	70	Irr	--	Li, FC, Pp 16 hr.
18F1	Jenks Hatchery	Dr	1950	95	6	95	P, 65-95	--	--	--	245	24	--	C, 5	100e	--	Irr	15	
12/4W-3C1	Chester Ludlow	Dr	1966	52	6	52	P, 45-52	44	8	Sand, brown	230	20	5-30-66	--	20b	10	Irr	--	Li, Pp 1 hr.
13/1W-3N1	Nylund Lumber Co.	Dr	1961	55	8	55	P, 45-55	33 54	21 2	Gravel, loose Gravel and brown sand, loose	470	3	3-27-61	T, 2	40b	18	Ind	--	Li, FC, WL, Pp 1 hr.
14M1	Boyd McCoy	Dg	1953	25	96	25	Lumber	--	--	--	463	20	--	J, ½	15e	--	Irr	4	
14M2	David Bowman	Dg	1955	37	48	37	--	--	--	--	462	20	--	J, ½	15e	--	Irr	1.5	
15H1	Kell Lumber Co.	Dr	1940	110	8	--	--	--	--	--	500	20	--	J, 3	25e	--	Ind	--	
15H2	do.	Dr	1947	29	8	21	P, --	--	--	--	470	11	--	--	60-100e	--	Irr, Ind	18	
15H3	do.	Dr	1947	84	8	40	B	--	--	--	475	20	--	S, 5	100e	--	Ind	--	
15P1	R. A. Bickford	Dr	1956	91	5	91	B	89	2+	Gravel	515	6	1- -56	--	8b	85	D	--	Li, Temp 52.
15Q1	Bill Edwards	Dr	1965	50	6	48	B	44	6	"Lime," black, broken	470	20 3/4	8- 8-65	J, 3/4	12b	20	D	--	Li, Pp 1 hr.
23G1	J. E. Miller	Dr	1952	41	10	41	P, 22-41	--	--	--	400	22	--	C, 10	200e	--	Irr	30	
23L1	G. W. Hill	Dr	1955	41	6	41	B	39	2	Sand and gravel, loose	500	--	--	--	--	--	Irr, D	--	Li, Temp 52; first water at 39 ft.
24E1	Dan Roth	Dr	1958	40	5	21	B	27	13	Limestone and shale	490	6	1-14-58	--	5b	All	D	--	Li.
26G1	Sweet Home Cemetery	Dr	1964	103	6	70	B	72	31	Sandstone, gray-blue	610	45	11-20-64	--	20b	10	D, Irr	--	Li, Pp 1 hr.
13/1-25E1	Harvey Reeser	Dr	1955	75	6	44½	B	45 75	>1 >1	Top of light shale Bottom of light shale	570	--	--	J, 2	25	25	D, Irr	4.7	Lo.
28Q1	Wallace Truax Oil Co.	Dr	1965	150	8	31½	B	31	119	Sandstone	615	42	6-20-65	--	30b	15	--	--	Li, FC, Pp 1 hr.

Table 1.--Records of representative wells in the lower Santiam River basin, Oregon--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		Type of pump and hp	Well performance		Use	Acres irrigated	Remarks
								Depth to top (feet)	Thickness (feet)	Character of material		Feet below datum	Date		Yield (gpm)	Drawdown (feet)			
13/1-28R1	U.S. Forest Service	Dr	1963	205	10 8	35 46½	B	45 46½	1½ 158½	Sand and gravel Claystone, sandy	625	16 11	6-18-65 12-23-63	S, 2	15	All	Ind	--	Li, FC, CA, SpA, Pp 4 hr, Temp 52; 50+ gpm in December 1964.
30N1	J. I. Greger	Dg	1937	4	60	--	--	10	4	"Rock"	580	10	--	C, 1½	20	All	Irr	2	Lo.
31A1	Lester Shingle	Dr	1959	70	8	67	P, 34-36, 42-44, 48-52	32	35	Sand and gravel	525	20	8-11-59	--	30b	12	Ind	--	Lo, Pp 1 hr.
31A2	Western Panel Co.	Dr	1959	71	8	62½	P, 56-62	15	47½	do.	530	16 2/3	11-17-59	--	25b	28	Ind	--	Lo, Pp 1 hr.
31H1	Union High School	Dr	1961	46	8	35	P, 26-34	20	[illegible]	do.	540	5 3/4	7- 1-61	--	20b	25	Irr	--	Lo, FC, Pp 1 hr.
31H2	do.	Dr	1961	41	8	35	P, 29-34	20	15	do.	540	7	7-13-61	--	30b	20	Irr	--	Li, FC, Pp 1 hr.
32A1	R. R. Graham	Dr	1963	70	8	44	B	40	7	Sandstone, gray	600	38	4-20-63	S, 3	80b	All	Ind	--	Li, FC, Pp 2 hr, Temp 52; pH 7; iron .003 ppm.
32A2	do.	Dr	1964	57	8	44 5/6	P, 32-44	32	13	Sand and gravel	600	14	9-21-64	--	50b	13	Ind	--	Lo, Pp 1 hr, Temp 52; pH 7.5
34B1	Sweet Home Cemetery	Dr	1961	235	6	17	B	34 136 163 194 228	5 3 3 4 3	Crevices in basalt do. do. do. do.	725	60	1- 7-61	--	40b	60	Irr	--	Li, Pp 2 hr.
34B2	do.	Dr	1964	100	6	44	--	42	58	Sandstone	725	39	12- 8-64	--	11b	45	Irr	--	Lo, Pp 1 hr.
35E1	Harvey Reeser	Dr	1965	230	6	20	B	4	226	Rock, sedimentary	610	10	1-16-65	--	23b	180	D	--	Lo, FC, Pp 1 hr.
35K1	Bobby Thedford	Dr	1963	122	6	23½	B	23½	98½	Sandstone	670	40.1	6-23-63	C, 1(?)	9b	75	D	--	Li, FC, CA, SpA, Pp 1 hr, Temp 55.
13/2-36Q1	U.S. Forest Service	Dr	1958	100	8	36	B	54	46	Tuff, lavender and green	795	7.5	3-19-58	--	32	82½	D	--	Li, FC, CA, SpA, Pp 8 hr, Temp 53.5.
14/1W-11B1	Don Leming	Dr	1962	63	6	18	B	14	4	Break in basalt	710	4 3/4	1- 9-63 6-28-65	S, ½	4½b	--	D	--	Li, FC, CA, SpA, Temp 56; slight taste.
14/1-10K1	J. Z. Kaufman	Dr	1957	150	8	41	B	39	111	Sandstone	1,020	30	9-25-57	--, 3/4	5b	120	D	--	Li.
12A1	R. C. Hodge	Dr	1960	60	6	--	P, 38-56	39	17	Sand	735	4 15½	1-26-59 9-29-60	--	20	30	D	--	Li, Pp 1 hr.

Table 2.--Drillers' logs of representative wells

8/1W-33N1. Santiam Golf Club. Altitude 410 ft. Drilled by R. Stadeli & Sons, 1965

Materials	Thickness (feet)	Depth (feet)
Soil	3	3
Cobblestones and clay, brown	33	36
Conglomerate, brown, medium-hard	34	70
Gravel, loose, and small boulders	6	76
Clay, brown	19	95
Claystone, gray, medium-hard	40	135
Claystone, dark-gray, hard	30	165
Claystone, dark-gray, medium-hard	20	185
Claystone, light-gray, medium-hard	28	213
Claystone, green, medium-hard	7	220
Basalt, black, hard	35	255
Claystone, black, soft	1	256
Basalt, black, medium-hard	44	300
Claystone, blue, medium-hard	5	305
Basalt, black, medium-hard	25	330

Casing: 10-in. to 100 ft, 8-in. 95-235 ft; perforated 18-80 ft, 102-165 ft.

9/1W-1E1. Etzel Bros. Altitude 510 ft. Drilled by Harry A. Robinson Well Drilling, 1958

Soil	3	3
Rock, "broken," weathered	13	16
Basalt, fresh, hard (60 gpm at 45 ft)	68	84
Basalt, vesicular, with wood fragments (water level dropped to 26½ ft at 84 ft)	12	96
Basalt or andesite, hard	27	123
Basalt, vesicular, with wood fragments, grading quickly into very hard rock (126 gpm at 161 ft)	54	177
Basalt or andesite, vesicular	12	189
Basalt, very hard	6	195
Basalt or andesite, vesicular	21	216
Basalt, very hard, with crevices	43	259

Casing: 8-in. to unknown depth; unperforated.

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

9/1W-1R1. Chris Cremer. Altitude 670 ft. Drilled by R. Stadeli & Sons, 1956

Materials	Thickness (feet)	Depth (feet)
Soil, reddish-brown	3	3
Dirt and boulders, reddish-brown; water at 38 ft	35	38
Rock, dark-gray, hard	41	79
Shale, brown	9	88
Rock, dark-gray, hard	15	103
Basalt, very hard	28	131
Rock, light-gray	19	150

Casing: 8-in. to 40 ft; perforated 20-40 ft.

9/1W-2C1. Fred Hottinger. Altitude 495 ft. Drilled by Harry A. Robinson Well Drilling, 1962

Soil and clay	2	2
Basalt, slightly weathered, badly fractured	134	136
Contact between two lava flows	3	139
Basalt, fresh, badly fractured	161	300

Casing: 10-in. to 80 ft; unperforated.

9/1W-2F1. A. Hassler. Altitude 470 ft. Drilled by Harry A. Robinson Well Drilling, 1956

Soil and clay	5	5
Gravel, coarse, and clay	10	15
Andesite, fresh, hard	75	90
Andesite, softer, water-bearing (7 gpm)	4	94
Andesite, fresh, hard	41	135
Andesite, vesicular, with sedimentary material in seams; water-bearing (500 gpm)	12	147

Casing: 8-in. to 16 ft; unperforated.

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

9/1W-2R1. Etzel Bros. Altitude 525 ft. Drilled by Miller-Robinson Well Drilling, 1962

Materials	Thickness (feet)	Depth (feet)
Soil	2½	2½
Clay, orange	1½	4
Tuff, light-brown	16	20
Tuff, blue	6½	26½
Basalt, fresh, crevices	88½	115
Tuff and claystone	14	129
Basalt, fresh	1½	130½
Sandstone, with wood and some leaf fossils; old land surface	5	135½
Basalt, fresh	4½	140
Basalt, fresh, very hard	32½	172½
Basalt, vesicular	1½	174
Basalt, fresh, hard	41	215
Basalt, vesicular	30	245
Claystone and siltstone, with wood fragments; old land surface	10	255
Basalt, vesicular	34½	289½

Casing: 10-in. to 69 ft; unperforated.

9/1W-4D1. Anton Mack. Altitude 410 ft. Drilled by Miller-Robinson Well Drilling, 1964

Former well	140	140
Claystone, blue	27	167
Basalt, brown, decomposed	16	183
Basalt, brown and black, decomposed, firm	54	237
Basalt, black, seamy, caving, water-bearing at 260 ft	25	262

Casing: 8-in. to 196 ft, 10-in. to 100 ft; perforated at unknown depth.

9/1W-4N1. Northwest Natural Gas Co. Altitude 420 ft. Drilled by Hanson Drilling Co.(?), 1963

Boulders and sand, water at 20-30 ft	30	30
Rock, gray, "broken"	15	45
Boulders and sand	92	137
Clay, gray	183	320
Sand, medium	15	335
Basalt, hard	27	362

Casing: 10-in. to 20 ft; unperforated.

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

9/1W-9P2. Mike Adams. Altitude 430 ft. Drilled by Pete Tolmasoff Well Drilling, 1965

Materials	Thickness (feet)	Depth (feet)
Soil	2	2
Cobbles, sand, and gravel, loose	6	8
Gravel, cemented	5	13
Gravel, silted	3	16
Gravel, cemented	16	32
Gravel and sand, loose	1	33
Sand, medium, compacted	2	35
Clay, red-brown, and gravel	1	36
Gravel, cemented	2	38
Gravel, rounded	2	40

Casing: 6-in. to 40 ft; unperforated.

9/1W-10C1. Regis High School. Altitude 447 ft. Harry A. Robinson Well Drilling, 1964

Soil	2	2
Gravel, cobbles, and boulders	100	102
Clay, light-brown	18	120
Clay, dark-brown	5	125
Clay, red cinder	35	160
Clay, gray-green	25	185
Siltstone	3	188
Rock, brown, hard	17	205
Rock, black, hard	45	250

Casing: 10-in. to 92 ft; perforated 45-70 ft.

9/1W-10M4. Stayton Canning Co. Coop. Altitude 440 ft. Drilled by J. W. Beck Well Drilling, 1954

Soil	4½	4½
Gravel, loose	27½	32
Gravel, cemented	287	319
Rock (basalt?)	12	331
Shale, brown	20	351
Shale, blue, hard and soft	129	480
Sand, green, with "quartz"	5	485

Casing: 12-in. to 319 ft; perforated 40-319 ft.

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

9/1W-10Q1. Frankies Wash & Dry. Altitude 445 ft. Drilled by Pete Tolmasoff Well Drilling 1964

Materials	Thickness (feet)	Depth (feet)
Gravel, coarse, and sand and clay	10	10
Gravel, coarse, and cobbles and clay	17	27
Gravel and coarse sand	3	30
Gravel and sand, compacted, water-bearing	10	40
Gravel and coarse sand, with clay	10	50
Gravel, medium, and coarse sand, water-bearing	2	52

Casing: 6-in. to 52 ft; perforated 30-50 ft.

9/1W-11C1. Walter Miller. Altitude 500 ft. Drilled by Miller-Robinson Well Drilling, 1965

Soil	2	2
Clay, brown	11	13
Clay, red	23	36
Clay, brown	10	46
Clay, orange	39	85
Rock, decomposed	7	92
Basalt, very hard	63	155
Rock, "honeycombed"	5	160
Claystone, blue	6	166
Rock, "honeycombed"	6	172
Basalt, very hard	85	257
Andesite, hard, "broken"	18	275

Casing: 6-in. to 95 ft; unperforated.

9/1W-11L1. Richard Schotthoefer. Altitude 470 ft. Drilled by Pete Tolmasoff Well Drilling, 1966

Soil	1	1
Gravel, cobbles, and clay	6	7
Gravel, cemented	5	12
Clay, gravel, and cobbles	2	14
Gravel and cobbles, cemented	5	19
Sand and gravel, loose	1	20
Gravel and boulders, cemented	15	35
Gravel, silted	5	40
Gravel, cemented	5	45
Clay and gravel, with large cobbles	5	50

Casing: 8-in. to 50 ft; perforated 20-50 ft.

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

9/1W-12B1. William Ripp. Altitude 690 ft. Drilled by R. Stadeli & Sons, 1963

Materials	Thickness (feet)	Depth (feet)
Soil, red	5	5
Basalt, reddish-brown, weathered	43	48
Rock, light-brown	3	51
Rock, light-brown, seamy, water-bearing	1	52
Rock, light-brown	10	62
Rock, gray	14	76
Rock, black, hard	26	102
Rock, black, hard, water-bearing	2	104
Rock, dark-gray, hard	6	110
Rock, black, medium-hard	30	140
Rock, black, hard	40	180
Rock, black, soft, water-bearing (26 gpm)	1	181
Rock, black, hard	4	185
Rock, black, very hard	12	197
Rock, gray, very hard	8	205
Rock, black hard	22 3/4	227 3/4
Basalt, gray, hard	19 1/4	247
Basalt, gray, medium-hard	13	260
Basalt, black, medium-hard	20	280
Basalt, black, hard	58	338
Basalt, black, medium-hard	4	342
Basalt, black, hard	26	368
Cavity (no change in water level; static level 135 ft)	2	370
Basalt, black	18	388
Basalt, black, very hard and abrasive (crevice at 408 ft; no change in water level)	35	423
Basalt, gray, hard	8	431
Basalt, gray, medium-hard, some water at 452 ft	21	452
Claystone, gray, medium-hard	10	462
Claystone, brick-red, firm	23	485
No record, caving	15	500
Clay, brown, sticky (drove plug and rocks into hole and left a depth of 460 ft)	6	506

Casing: 6-in. to 343 ft; perforated 40-53 ft. Water level dropped from 140 ft to 226 ft during winter 1962.

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

9/1W-13D1. Salem City Water Dept. Altitude 466 ft. Drilled by R. J. Strasser Drilling Co., 1939

Materials	Thickness (feet)	Depth (feet)
Gravel and sand, loose	6	6
Gravel, tight, cemented	10	16
Gravel, loose, water-bearing	3	19
Gravel, cemented	7	26
Gravel, loose, water-bearing	2	28
Gravel, dirty, fairly loose	7	35
Gravel, cemented, and boulders	25	60

Casing: 16-in. to 60 ft.

9/1W-14M1. W. E. Blum. Altitude 450 ft. Drilled by Long Drilling, 1959

Soil	2	2
Boulders and soil	8	10
Gravel	16	26

Casing: 6-in. to 26 ft; perforated 11-26 ft.

9/1W-14Q1. John Fery. Altitude 550 ft. Drilled by Miller-Robinson Well Drilling, 1964

Soil	2	2
Clay, orange	6	8
Boulders	2	10
Basalt, very hard	47	57
"Old land surface" (red clay)	3	60
Basalt, gray	18	78
Volcanic ash, blue, and "old land surface"	6½	84½
Basalt	15½	100
Basalt, angled fractures	80	180
Basalt, very hard	20	200
"Old land surface" (red clay)	5	205
Basalt, vesicular, "honeycombed"	10	215
Basalt, hard	9	224
Basalt, vesicular, "honeycombed"	3	227
Basalt, hard	5½	232½
Basalt, vesicular, "honeycombed"	1½	234
Basalt, hard	2	236
Basalt, vesicular, "honeycombed"	2	238
Basalt, hard	47	285

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

9/1W-14Q1--Continued

Materials	Thickness (feet)	Depth (feet)
Basalt, "broken," very hard	30	315
Basalt, very hard, crevices on angle	11	326

Casing: 10-in. to 19½ ft; unperforated.

9/1W-15F2. North Santiam Sand & Gravel. Altitude 435 ft. Drilled by Long Drilling, 1964

Soil	4	4
Gravel, small, and clay, mixed	13	17
Gravel, medium to large, and boulders	19½	36½

Casing: 6-in. to 36½ ft; perforated 24-36½ ft.

9/1W-16G1. City of Stayton. Altitude 420 ft. Drilled by Long Drilling, 1963

Soil	3	3
Gravel, medium, and soil, mixed	13	16
Boulders	2	18
Gravel, medium, and clay	7	25
Gravel, medium	5	30

Casing: 6-in. to 30 ft; perforated 23-30 ft.

9/1W-17E1. C. S. Schriner. Altitude 405 ft. Drilled by Pete Tolmasoff Well Drilling, 1965

Soil	4	4
Gravel, cemented, some water at 19 ft	16	20
Gravel and clay, firm	2	22
Gravel, cemented	12	34
Gravel, silted, firm	8	42
Gravel, pink, cemented, water-bearing	4	46
Gravel, tan, silted, water-bearing	4	50

Casing: 6-in. to 50 ft; unperforated.

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

9/1W-18R1. Raymond Schrock. Altitude 385 ft. Drilled by West Well Drilling, 1961

Materials	Thickness (feet)	Depth (feet)
Clay, brown, sandy	5	5
Sand and gravel to boulder size, unconsolidated, with considerable brown silt	11	16
Sand, gravel, and clay, partly cemented	6½	22½

Casing: 8-in. to 22 ft; perforated 11-22 ft.

9/1W-19M2. R. A. Hammer. Altitude 365 ft. Drilled by West Well Drilling, 1951

Sand, with dirt	6	6
Sand and small gravel	6	12
Clay, blue	1½	13½
Gravel, with sand	5½	19

Casing: 8-in. to 19 ft; perforated 9-19 ft.

9/1W-19N3. E. D. Glidewell. Altitude 370 ft. Drilled by West Well Drilling, 1959

Silt, sandy	8	8
Sand, gravel, and boulders, unconsolidated, water-bearing	13	21
Sand, coarse, and cemented gravel	2	23

Casing: 8-in. to 23 ft; perforated 12-23 ft.

9/1W-20H2. D. B. Gray. Altitude 380 ft. Drilled (driller unknown), 1955

Clay and loam	17	17
Sand and gravel	4	21
Gravel, cemented	7	28
Sand and gravel	3	31
Gravel, cemented	12	43
Sand and gravel	4	47

Casing: 10-in. to unknown depth.

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

9/1W-21J1. Bud Cook. Altitude 450 ft. Drilled by Long Drilling, 1965

Materials	Thickness (feet)	Depth (feet)
Soil	2	2
Gravel, medium, and clay, mixed	36	38
Gravel, medium	24	62

Casing: 6-in. to 62 ft; perforated 46-62 ft.

9/1W-24B2. Jim Adams. Altitude 685 ft. Drilled by R. Stadeli & Sons, 1966

Soil, brown	1½	1½
Basalt, very hard	30½	32
Claystone, gray	9	41
Basalt, black, hard, water (perched?) at 70 ft (2 gpm)	30	71
Claystone, gray	4	75
Basalt, black and red	15	90
Basalt, soft and hard layers	5	95
Claystone, green	6	101
Claystone, brown	2	103
Claystone, gray	2	105
Claystone, green	1½	106½
Basalt, black, water at 110 ft (4 gpm) and at 200 ft (1½ gpm)	100½	207
Claystone, green	5	212
Claystone, brown	4	216
Claystone, blue	4	220
Claystone, green	15	235
Claystone, brown	5	240
Claystone, blue	8	248

Casing: 6-in. to 19 ft; unperforated.

9/1W-28E1. Lyle Badkin. Altitude 420 ft. Drilled by West Well Drilling, 1960

Soil and clay, red	5	5
Clay, tan, sandy, with some gravel	21	26
Gravel, coarse, cemented with tan sandy clay; very large boulder at 46 ft; water at 30 ft	32	58
Clay, tan, sandy	7	65
Gravel, coarse, cemented	11	76

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

9/1W-28E1--Continued

Materials	Thickness (feet)	Depth (feet)
Clay, tan, sandy, with small gravel	5	81
Sand, black, and gravel, cemented tightly with blue clay; water at 87-102½ ft	21½	102½

Casing: 6-in. to 100 ft; unperforated.

9/1W-28M1. Albert Julian. Altitude 450 ft. Drilled by Barron & Strayer, 1962

Soil	4	4
Clay, yellow	21	25
Boulders and clay	15	40
Gravel and clay	35	75
Clay, blue	20	95
Basalt	5	100
Gravel, cemented	5	105
Clay	5	110
Gravel, cemented	5	115

Casing: 10-in. to 32 ft, 8-in. to 99 ft; perforated 80-90 ft.

9/1W-28R1. Fred Kronner. Altitude 530 ft. Drilled by R. Stadeli & Sons, 1960

Soil, reddish-brown	1	1
Dirt and rocks, brown (weathered basalt?)	11	12
Rock, bluish, medium-hard, "diced"	7	19
Shale, brown, medium-hard	13	32
Shale, gray, medium-hard	11	43
Shale, dark-gray, hard	10	53
Shale, grayish-green, medium-hard	12½	65½
Rock, black, hard, water-bearing (perched)	4½	70
Crevice at 70 ft		
Rock, black, hard	10	80
Rock, gray, very hard	44	124
Rock, gray, medium-hard	8	132
Rock, black, hard; completed well at 133 ft	9	141
Rock, gray, crevice; water level dropped from 52 ft to 110 ft	1	142
Rock, gray	8	150

Casing: 8-in. to 29 ft; unperforated.

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

9/1W-29K1. F. E. Becker. Altitude 400 ft. Drilled by West Well Drilling, 1954

Materials	Thickness (feet)	Depth (feet)
Soil and sand	6	6
Subsoil	5	11
Gravel, cemented	6	17
Gravel, loose, and sand	6	23
Gravel, cemented, and "caving material" (clay?)	57	80
Gravel, cemented, solid	20	100
Shale, hard	28	128

Casing: 8-in. to 80 ft; perforated 5-80 ft.

9/1W-29R1. John Tarr. Altitude 510 ft. Drilled by E. P. Brown Drilling, 1966

Clay	20	20
Clay and sand	20	40
Sand, coarse	9	49

Casing: 6-in. to 49 ft; unperforated.

9/1W-30D1. E. D. Glidewell. Altitude 370 ft. Drilled by West Well Drilling, 1940

Soil	8	8
Sand, "alluvial"	9	17
Gravel, uncemented, water-bearing	8	25

Casing: 8-in. to 25 ft; perforated 12-25 ft.

9/1W-31A1. Joe Slangal. Altitude 390 ft. Drilled by owner, 1964

Soil	5	5
Gravel, coarse	25	30
Clay, yellow, sandy	8	38
Sand, coarse	6	44
Gravel, fine, sandy	17	61
Clay, red	13	74
Clay, gray	31	105
Clay, gray-blue	31	136

Casing: 8-in. to 136 ft; perforated 22-26 ft, 40-50 ft, 60-70 ft, 80-90 ft, and 105-115 ft.

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

9/2W-4J1. Ollie Runions. Altitude 315 ft. Drilled by Pete Tolmasoff Well Drilling, 1964

Materials	Thickness (feet)	Depth (feet)
Soil	3	3
Cobbles and clay	6	9
Cobbles and gravel, cemented	5	14
Sand and clay	4	18
Cobbles, cemented, and clay	7	25
Cobbles, large, and clay	1	26
Sand and gravel, compacted (cemented?)	11	37
Sand and gravel, silted, water-bearing	13	50
Sand, coarse, and gravel, water-bearing	7	57
Cobbles, small, and coarse, clean, loosely packed sand, water-bearing	9	66

Casing: 10-in. to 66 ft; perforated 40-64 ft.

9/2W-5E1. A. S. Drager. Altitude 301 ft. Drilled by Duffield Bros. Well Drilling, 1950

"Dug hole"	9	9
Gravel and sand, cemented	2	11
Gravel and sand, loose	7	18
Sand, "hard-packed," with occasional gravel	16	34
Gravel and sand, cemented	12	46
Clay, blue	8	54
Sand, loose, water-bearing	12	66
Gravel and sand, loose	3	69
Sand, loose, water-bearing	21	90
Gravel and sand, water-bearing	2	92
Clay, green	2	94
Sandstone, red	18	112
Sand, "hard-packed," water-bearing	8	120
"Hard formation"	1	121

Casing: 8-in. to 94 ft; perforated at unknown depth.

9/2W-6E1. H. W. Vogel. Altitude 445 ft. Drilled by Duffield Bros. Well Drilling, 1965

Clay, red (weathered basalt?)	2	2
Clay, yellow	44	46
Basalt, "broken"	6	52
Basalt, gray, hard	85	137

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

9/2W-6E1--Continued

Materials	Thickness (feet)	Depth (feet)
Basalt, "fractured," water at 150 ft (4 gpm) ---------	14	151
Basalt, gray, hard ----------	12	163
Basalt, "fractured," water at 163-169 ft (8 gpm) -----	16	179

Casing: 6-in. to 52 ft; unperforated.

9/2W-10B1. M. W. Rea. Altitude 335 ft. Drilled by R. Stadeli & Sons, 1957

Soil, black, with gravel ----------	2	2
Dirt, sand, and cobblestones, gray ----------	18	20
Sand and gravel, gray, some water ----------	2	22
Cobblestones and dirt, grayish-brown ----------	8	30
Sand, dirty, and reddish-brown pea-sized gravel ------	1	31
Gravel, dirt, and sand, brown ----------	9	40
Gravel and sand, grayish-brown, water-bearing --------	2	42

Casing: 6-in. to 42 ft; unperforated.

9/2W-12N1. O. H. Coomes. Altitude 365 ft. Drilled by Harry A. Robinson Well Drilling, 1961

Gravel, coarse, and cobbles, sand, and clay ----------	27	27
Gravel, coarse ----------	56	83
Gravel, coarse, cemented with clay ----------	70	153
Clay, sandy ----------	12	165
Gravel, coarse, with clay ----------	1	166

Casing: 8-in. to 166 ft, 10-in. to 83 ft; perforated 17-26 ft, 83-138 ft.

9/2W-20D1. C. L. Harding. Altitude 680 ft. Drilled by R. Stadeli & Sons, 1963

Soil, brown ----------	1	1
Clay, brown ----------	2	3
Rock, brown, crumbly, soft ----------	11	14
Rock, blue, soft ----------	4	18
Basalt, black, medium-hard ----------	37	55
Sandstone, brown, medium-hard ----------	50	105
Basalt, black, hard ----------	90	195
Sandstone, brown, medium-hard ----------	30	225

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

9/2W-20D1--Continued

Materials	Thickness (feet)	Depth (feet)
Basalt, black, hard	6	231
Basalt, black, medium-hard	12	243
Basalt, black, medium-hard, crevices, water-bearing	47	290
Claystone, blue, medium-hard	35	325
Claystone, blue, soft	10	335

Casing: 12-in. to 250 ft, 8-in. to 335 ft; unperforated.

9/2W-23A2. C. L. Hatch. Altitude 355 ft. Drilled by Pete Tolmasoff Well Drilling, 1964

Soil and cobbles	4	4
Cobbles and clay	6	10
Gravel, cemented, and cobbles	5	15
Sand, coarse, and fine gravel	9	24
Gravel, cemented	1	25
Sand, coarse, and medium gravel	1	26
Gravel, cemented	4	30
Gravel and sand, coarse, silted	4	34
Sand and gravel, silted, firm	3	37

Casing: 8-in. to 34 ft; perforated 18-25 ft, 30-33 ft.

9/2W-24J2. R. E. Glidewell. Altitude 370 ft. Drilled by West Well Drilling, 1945

Soil	8	8
Sand, "alluvial"	5	13
Gravel, uncemented, water-bearing	8	21

Casing: 8-in. to 21 ft; perforated 10-21 ft.

9/2W-24L3. Boyd Hilton. Altitude 370 ft. Drilled by West Well Drilling, 1962

Soil, brown, sandy	6	6
Gravel, coarse to cobble-size, and brown sand, unconsolidated	17	23
Gravel, bright, coarse to cobble-size, and brown sand, cemented with tan clay	107	130

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

9/2W-24L3--Continued

Material	Thickness (feet)	Depth (feet)
Gravel, definite color change, brown and yellow layers, and "corroded" lighter brown sand, cemented with much clay	10	140

Casing: 10-in. to 138 ft; perforated 15-138 ft.

9/2W-24M2. Albert Krenz. Altitude 358 ft. Drilled by Pete Tolmasoff Well Drilling, 1963

Loam, sandy	4	4
Gravel, coarse, and sand and clay	11	15
Gravel, medium, and medium sand, cemented	9	24
Sand and gravel, fine, "packed," water-bearing	6	30
Clay and fine gravel	4	34
Sand, fine, "hard-packed," water-bearing	3	37
Gravel, fine, and clay	4	41
Sand, medium, and fine gravel	9	50
Gravel, fine, and coarse sand, water-bearing	4	54

Casing: 6-in. to 54 ft; perforated 50-53 ft.

9/2W-24P3. North Santiam School. Altitude 350 ft. Drilled by West Well Drilling, 1962

Clay, brown, sandy; "river bottom"	9	9
Sand and gravel to cobble size, with much brown silt, unconsolidated	28	37
Sand and gravel, unconsolidated	3	40

Casing: 6-in. to 40 ft; unperforated.

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

9/2W-25B2. Mrs. Hinkle. Altitude 353 ft. Drilled by West Well Drilling, 1964

Materials	Thickness (feet)	Depth (feet)
Sand, brown, and gravel to cobble size, with some silt, unconsolidated	20	20
Sand and gravel, coarse, partly cemented with brown clay	2	22
Sand and gravel, with much brown silt, unconsolidated	2	24

Casing: 8-in. to 24 ft; perforated 9-22 ft.

9/2W-25F1. William Towery. Altitude 345 ft. Drilled (driller unknown), 1946

Soil	6	6
Sand and gravel	5	11
Gravel, water-bearing	12	23

Casing: 8-in. to 23 ft; perforated 10-23 ft.

9/2W-25N1. L. C. Scofield. Altitude 330 ft. Drilled by Pete Tolmasoff Well Drilling, 1965

Soil	1	1
Gravel, rounded, and sand	8	9
Clay and gravel	8	17
Gravel and sand, water-bearing	4	21

Casing: 10-in. to 21 ft; perforated 18-21 ft.

9/2W-26K1. Merle Crane. Altitude 325 ft. Drilled by Pete Tolmasoff Well Drilling, 1965

Soil	6	6
Clay and gravel; "conglomerate"	8	14
Gravel, loose, clean, water-bearing	2	16
Gravel and medium sand, water-bearing	4	20
Sand and fine gravel, "packed"	1	21
Gravel, silted, and sand	1	22
Clay and gravel, "packed"	8	30
Gravel, fine, and coarse sand	1	31

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

9/2W-26K1--Continued

Materials	Thickness (feet)	Depth (feet)
Gravel and soft clay	1	32
Gravel, cemented	3	35

Casing: 10-in. to 33 ft; perforated 18-22 ft.

9/2W-26P1. Merle Crane. Altitude 325 ft. Drilled by Pete Tolmasoff Well Drilling, 1965

Soil, silted loam	2	2
Sand, gravel, and cobbles	8	10
Gravel, cemented	3	13
Gravel, water-bearing	2	15
Gravel, cemented, and cobbles	8	23
Gravel, loose layers, water-bearing	5	28
Sand, medium, packed	1	29
Gravel and clay	1	30

Casing: 10-in. to 30 ft; perforated 18-30 ft.

9/2W-27A2. Schermacher. Altitude 330 ft. Drilled by West Well Drilling, 1958

Soil and loose gravel	3	3
Gravel, partly consolidated	18	21
Gravel, coarse, and sand, loose, water-bearing	9	30
Gravel, lightly cemented, water-bearing	15	45
Clay, brown	3	48
Clay and gravel	2	50
Sand and gravel, loose, water-bearing	6	56
Gravel, cemented	4	60
Sand and gravel, loose, water-bearing	5	65
Gravel, cemented	17	82
Gravel, coarse, loose	6	88
Gravel, partly cemented	6	94
Clay, blue	3	97
Clay, blue, and cemented gravel	7	104
Gravel, cemented, with some loose layers, water-bearing	32	136
Clay, brown, sandy	8	144
Gravel, cemented, with clay layers	39	183
Gravel and sand, brown, unconsolidated mostly; strips of sandy clay of various colors; mineral stain; water-bearing	32	215

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

9/2W-27A2--Continued

Materials	Thickness (feet)	Depth (feet)
Gravel, rusty, rough, with clinging particles of clay and shale, water-bearing	7	222
"Volcanics"	133	355
Basalt, "broken"	30	385
Basalt, with some large fractures	110	495
Andesite, may be partly tuffaceous	235	730
Shale, blue, soft	8	738
Shale	44	782
Shale and interbedded sand	78	860
Shale, hard	205	1,065
Shale	184	1,249
Sand, black	20	1,269
Shale, silty	761	2,030
Shale, chalky, with a few thin sand interbeds	50	2,080
Shale, silty	339	2,419
Sandstone, fine, silty	7	2,426

Casing: 10-in. to 200 ft; perforated 50-200 ft.

9/2W-27J1. D. C. Jones. Altitude 327 ft. Drilled by owner, 1951, deepened by West Well Drilling, 1962

Soil	4	4
Clay and sand	6	10
Sand and gravel	44	54
Gravel, clean, water-bearing	3	57
Gravel, coarse, and sand, partly cemented with brown clay	20	77

Casing: 8-in. to 76 ft; perforated 17-76 ft.

9/2W-28G2. Dorsey Gray. Altitude 315 ft. Drilled by Duffield Bros. Well Drilling, 1961

Clay, gray, and gravel	15	15
Gravel and sand	3	18
Gravel, tightly cemented	17	35
Clay, light-brown, "granular"	37	72
Clay, brown, sticky, caving	28	100

Casing: 12-in. casing pulled; well abandoned.

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

9/2W-28H1. Dorsey Gray. Altitude 311 ft. Drilled by Duffield Bros. Well Drilling, 1961

Materials	Thickness (feet)	Depth (feet)
Clay, gray, with gravel	16	16
Gravel, small, with sand	36	52
Gravel and sand, cemented	11	63
Gravel and sand	6	69
Gravel and sand, cemented	4	73

Casing: 12-in. to 73 ft; perforated 38-73 ft.

9/2W-32A1. Floyd Davidson. Altitude 410 ft. Drilled by Duffield Bros. Well Drilling, 1959

"Surface" clay	4	4
Clay, yellow	39	43
Ash, volcanic	7	50
Basalt, black	1	51

Casing: 6-in. to 33 ft; unperforated.

9/2W-32H1. D. A. Betch. Altitude 525 ft. Drilled by Harry A. Robinson Well Drilling, 1955

Soil and boulders (weathered basalt)	18	18
Basalt, hard	16	34
Basalt, weathered	73	107
Basalt, hard	41	148
Shale, hard	32	180

Casing: 6-in. to 29 ft; unperforated.

9/2W-33C1. Southern Pacific Co. Altitude 295 ft. Drilled by Pete Tolmasoff Well Drilling, 1966

Soil; loam	7	7
Cobbles and clay	5	12
Clay and sand	2	14
Gravel, cemented	5	19
Gravel, silted	3	22
Gravel, cemented	8	30
Gravel, silted	2	32

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

9/2W-33C1--Continued

Materials	Thickness (feet)	Depth (feet)
Gravel, cemented	8	40
Gravel, rounded, loose, water-bearing	2	42

Casing: 6-in. to 42 ft; unperforated.

9/2W-33P2. William Grenz. Altitude 290 ft. Drilled by Pete Tolmasoff Well Drilling, 1966

Soil and gravel	2	2
Cobbles and sand, loose	6	8
Cobbles and clay, firm	7	15
Gravel, rounded, loose, clean, water-bearing	6	21
Sand, medium, "packed"	1	22
Gravel and clay, firm	1	23

Casing: 10-in. to 23 ft; perforated 18-23 ft.

9/2W-35B1. Robert Christenson. Altitude 320 ft. Drilled by Pete Tolmasoff Well Drilling, 1965

Loam, sandy	1	1
Cobbles and sand, loose	8	9
Gravel, cemented	6	15
Gravel and cobbles, silted	2	17
Gravel, coarse sand, and cobbles, loose, water-bearing	5	22
Gravel, silted	1	23

Casing: 10-in. to 23 ft; perforated 18-23 ft.

9/2W-36A1. G. E. Lynch. Altitude 365 ft. Drilled by Shafer & Gellatly, 1952

Clay and coarse gravel	20	20
Boulders	10	30
Gravel, coarse	16	46
Gravel and clay	24	70
Gravel and sand, brown	4	74
Sand, brown	8	82

No log below 82 ft

Casing: 6-in. to 95 ft; perforated 32-40 ft, 44-51 ft, 60-92 ft.

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

9/3W-1L1. Rufus Perry. Altitude 470 ft. Drilled by Harry A. Robinson Well Drilling, 1956

Materials	Thickness (feet)	Depth (feet)
Soil and clay, yellow	20	20
Shale, blue-gray	41	61
Basalt, "broken," grading into solid hard rock	39	100

Casing: 6-in. to 67 ft; unperforated.

9/3W-2H1. Vincent Pietrok. Altitude 549 ft. Drilled by Harry A. Robinson Well Drilling, 1956

Soil, red and yellow "decomposed lava"	30	30
Clay, red "hemetite" (weathered basalt)	10	40
"Lava, decomposed"	31	71

Casing: 6-in. to 69 ft; unperforated.

9/3W-5P1. J. L. Payne. Altitude 198 ft. Drilled by Duffield Bros. Well Drilling, 1966

Clay, tan	38	38
Clay, blue, sandy	6	44
Sand and gravel	22	66
Clay, blue, with some gravel	3	69
Claystone, gray, hard	11½	80½

Casing: 12-in. to 69 ft; perforated 45-65 ft.

9/3W-8C1. J. L. Payne. Altitude 202 ft. Drilled by Duffield Bros. Well Drilling, 1965

Clay, tan, silty	41	41
Gravel and sand, blue, lightly cemented	9	50
Gravel, small, and coarse sand	18	68
Clay, gray, with some gravel	4	72
Claystone, gray, hard	9	81

Casing: 12-in. to 74 ft; perforated 42-68 ft.

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

9/3W-8D1. G. E. Moss. Altitude 200 ft. Drilled by Art Clinton Well Drilling Co., 1962

Materials	Thickness (feet)	Depth (feet)
Soil, "Willamette"	1	1
Clay, brown	14	15
Clay, blue	15	30
Clay, blue, sandy	11	41
Gravel and clay	21	62
Gravel, medium, water-bearing	8	70
No log below 70 ft		

Casing: 12-in. to 74 ft; perforated 49-69 ft.

9/3W-9F1. Exec-House, Inc. Altitude 225 ft. Drilled by J. A. Sneed & Sons, 1965

Soil	2	2
Clay, yellow	12	14
Clay, blue, soft	8	22
Claystone, gray, firm	10	32
Basalt, weathered	28	60
"Claystone, broken," water-bearing	23	83
Claystone, solid, hard	17	100
Claystone, soft	1	101

Casing: 10-in. to 86 ft; perforated 63-84 ft.

9/3W-10R1. Oregon Highway Dept. Altitude 250 ft. Drilled by Roy Perkins, 1956

Soil	3	3
Clay, red, sticky	17	20
Shale, gray, hard	75	95
Shale, "broken," brittle, water-bearing	2	97
Shale, gray, hard	1	98
Shale, "fine," sandy, water-bearing	2	100
Shale, gray, hard	6	106

Casing: 6-in. to 44½ ft; unperforated.

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

9/3W-18D1. G. E. Lamp. Altitude 170 ft. Drilled by Art Clinton Well Drilling Co., 1961

Materials	Thickness (feet)	Depth (feet)
Soil	2	2
Clay, blue and brown	13	15
Sand and gravel	18½	33½

Casing: 12-in. to 33½ ft; perforated 20½-31½ ft.

9/3W-18L1. G. E. Lamp. Altitude 176 ft. Drilled by Art Clinton, 1957

Soil	2	2
Clay, yellow	22	24
Sand and gravel	22	46

Casing: 12-in. to 46 ft; perforated 30-42 ft.

9/3W-18N1. Louise H. Johnston. Altitude 177 ft. Drilled (driller unknown), 1953

Soil	3	3
"Hardpan"	1	4
Clay, blue	34	38
Silt and sand	3	41
Gravel	9	50
Clay, blue	5+	-

Casing: 10-in. to 50 ft; perforated 41-50 ft.

9/3W-19D1. William Krebs. Altitude 200 ft. Drilled by Pete Tolmasoff Well Drilling, 1966

Soil	2	2
Clay, brown, firm, heavy	18	20
Clay, brown, sandy	17	37
Gravel, loose, water-bearing	3	40
Gravel, sand, and clay	3	43
Gravel, cemented	5	48
Gravel, loose, water-bearing	1	49
Clay, blue, and gravel, "firm"	6	55
Clay, blue	5	60

Casing: 10-in. to 50 ft; perforated 40-50 ft.

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

9/3W-23R1. M. L. Vickery. Altitude 260 ft. Drilled (driller unknown), 1960

Materials	Thickness (feet)	Depth (feet)
Clay, blue	19	19
Clay, brown	36	55
Clay, blue	74	129
Sand and gravel	2	131
Sandstone	9	140

Casing: 6-in. to 135½ ft; unperforated.

9/3W-29M1. A. E. Cole. Altitude 180 ft. Drilled by Ace Drilling Co., 1953

Silt	12	12
Gravel, water-bearing	13	25

Casing: 8-in. to 25 ft; perforated 19-25 ft.

9/3W-30E1. Delmar Davidson. Altitude 175 ft. Drilled by Ace Drilling Co., 1959

Sand and sandy soil	16	16
Gravel and sand, coarse	14	30

Casing: 10-in. to 30 ft; perforated 24-29 ft.

9/3W-30H2. Lorin Hovin. Altitude 180 ft. Drilled by Ace Drilling Co., 1961

Clay	14	14
Sand, brown	2	16
Clay, sand, and gravel, brown	4	20
Gravel, medium-sized	9	29
Gravel and sand	2	31

Casing: 10-in. to 31 ft; perforated 22-30 ft.

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

9/3W-30L3. Delmar Davidson. Altitude 180 ft. Drilled by Ace Drilling Co., 1957

Materials	Thickness (feet)	Depth (feet)
Soil, sandy, and sand	16	16
Gravel and sand, coarse	14	30

Casing: 12-in. to 30 ft; perforated 24-29 ft.

9/3W-31K1. D. L. Turnidge. Altitude 176 ft. Drilled (driller unknown), 1948

Soil, loam	12	12
Gravel	8	20

Casing: 8-in. to 20 ft; perforated 12-20 ft.

9/3W-32A1. El Rancho Menta. Altitude 185 ft. Drilled by Ace Drilling Co., 1951

Soil and "lower soil"	12	12
Sand and small gravel	4	16
Gravel	11	27

Casing: 12-in. to 27 ft; perforated at unknown depth.

9/3W-33B1. L. C. Robertson. Altitude 190 ft. Drilled by Ace Drilling Co., 1963

Silt	5	5
Silt and clay, yellow	11	16
Gravel, water-bearing	11½	27½
Clay, yellow	-	27½+

Casing: 8-in. to 27½ ft; perforated 23-26½ ft.

9/3W-33R1. Oregon State Parks. Altitude 190 ft. Drilled by Miller-Robinson Well Drilling, 1966

Gravel, medium-sized, and silt	22	22
Gravel, medium-sized, loose	5	27
Gravel, medium-sized, and silt	13	40
Clay, brown, and medium-sized gravel	2	42

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

9/3W-33R1--Continued

Materials	Thickness (feet)	Depth (feet)
Gravel, small- to medium-sized, with sand	8	50
Clay, blue	2	52

Casing: 6-in. +5 to 52 ft; perforated 43½-49 ft.

9/3W-34J1. Posel. Altitude 210 ft. Drilled by Burr Rambo Well Drilling, 1961

Clay, yellow	30	30
Clay, blue	14	44
Sand, blue	4	48
Clay, blue	12	60
Clay, yellow	8	68
Shale, blue	222	290
Rock, blue	108	398

Casing: 8-in. to 72 ft; perforated 66-70 ft.

9/3W-34K3. Weldon Ferry. Altitude 200 ft. Drilled by Ace Drilling Co., 1959

Loam, sandy	3	3
Sand and gravel	8	11
Gravel and some brown clay	5	16
Gravel and sand	13	29

Casing: 8-in. to 29 ft; perforated 23-28 ft.

9/3W-34K4. Ralph Nelson. Altitude 200 ft. Drilled by N. Klause Drilling Co., 1960

Soil	1	1
Gravel	33	34

Casing: 8-in. to 33 ft; perforated at unknown depth.

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

9/4W-23R1. Gayle Gilmour. Altitude 173 ft. Drilled by Ace Drilling Co., 1962

Materials	Thickness (feet)	Depth (feet)
Clay, yellow	14	14
Sand, gravel, and clay, yellow	4	18
Gravel, golden, loose, varied in size	16	34

Casing: 10-in. to 34 ft; perforated 27-33 ft.

9/4W-24L1. J. W. Gilmour. Altitude 170 ft. Drilled by P. A. West, 1929

Soil and clay	18	18
Gravel	8	26
Shale	9	35

Casing: 8-in. to 35 ft; perforated 18-26 ft.

9/4W-25A1. D. A. Davidson. Altitude 174 ft. Drilled (driller unknown), 1945

Loam, sandy	12	12
Sand	2	14
Gravel	16	30

Casing: 10-in. to unknown depth.

9/4W-25M1. D. E. Turnidge. Altitude 174 ft. Drilled (driller unknown), 1935

Loam, sandy	14	14
Sand and gravel	13	27

Casing: 12-in. to 27 ft; perforated 19-27 ft.

9/4W-26A1. Gayle Gilmour. Altitude 170 ft. Drilled by Miller-Robinson & West, 1965

Clay, brown, sandy	14	14
Sand and gravel, loose; old river bottom	23	37
Clay, yellow	3	40

Casing: 8-in. to 40 ft; perforated 24-39 ft.

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

9/4W-26H3. D. E. Turnidge. Altitude 174 ft. Drilled (driller unknown), 1930

Materials	Thickness (feet)	Depth (feet)
Loam, sandy	12	12
Sand and gravel	15	27

Casing: 12-in. to 27 ft; perforated 17-27 ft.

9/4W-26Q2. D. A. Davidson. Altitude 170 ft. Drilled (driller unknown), 1947

Loam, sandy	10	10
Gravel	12	22

Casing: 10-in. to unknown depth.

9/4W-35B1. D. E. Turnidge. Altitude 174 ft. Drilled (driller unknown), 1938

Loam, sandy	14	14
Sand and gravel	16	30

Casing: 10-in. to 30 ft; perforated 15-30 ft.

9/4W-36E1. D. L. Turnidge. Altitude 175 ft. Drilled (driller unknown), 1943

Silt	12	12
Gravel	18	30

Casing: 12-in. to 30 ft; perforated 15-30 ft.

9/4W-36G2. Glen Edwards. Altitude 175 ft. Drilled by Ace Drilling Co., 1957

Loam	4	4
Sand, gravel, and clay	6	10
Gravel, with a little sand	11	21

Casing: 8-in. to 20 ft; perforated 15-20 ft.

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

9/1-3E1. Etzel Bros. Altitude 1,160 ft. Drilled by Harry A. Robinson Well Drilling, 1964

Materials	Thickness (feet)	Depth (feet)
Clay, red	25	25
Clay, yellow	15	40
Tuff, gray	18	58
Basalt, fresh	62	120
Basalt, with volcanic ash; "old land surface" (red clay)	14	134
Basalt, fresh	149	283
"Old land surface" (red clay)	7	290
Basalt, fresh	68	358
Gravel and sand, "buckshot," cemented in volcanic ash	33	391
Clay, brown	9	400

Casing: 10-in. to 60 ft; unperforated.

9/1-5N1. Della C. Boedigheimer. Altitude 885 ft. Drilled by Harry A. Robinson Well Drilling, 1965

Soil and clay	2½	2½
Basalt, fresh	142½	145
"Old land surface" (red clay)	20	165
Vegetation, decomposed	5	170
Gravel, "buckshot," and clay	25	195
Sandstone, brown	35	230
Sandstone, black	13	243
Andesite or basalt, very hard	109	352

Casing: 10-in. to 19 ft; unperforated.

9/1-6N1. Florence Bental. Altitude 740 ft. Drilled by R. Stadeli & Sons, 1956

Soil, reddish-brown	3	3
Rock, black, hard	34	37
Shale, green, hard	11	48
Rock, hard, water-bearing (1¼ gpm at 60 ft)	12	60
Rock, gray, hard, water-bearing (60 gpm at 72 ft)	18½	78½

Casing: 8-in. to 8 ft; unperforated.

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

9/1-7E1. J. L. Apple. Altitude 510 ft. Drilled by J. L. Klundt, 1955

Materials	Thickness (feet)	Depth (feet)
Gravel, large	5	5
Sand, gravel, and boulders, cemented	18	23
Sand and gravel, cemented	4	27
Sand and gravel, loose	12	39
Sand and gravel, with shale	11	50

Casing: 8-in. to 47 ft; perforated 8-45 ft.

9/1-7F1. A. D. Ware. Altitude 530 ft. Drilled by J. L. Klundt, 1955

Boulders and clay	5	5
Sand, gravel, and boulders	25	30
Gravel and boulders	10	40
Sand, cemented	5	45
Clay, blue	5	50

Casing: 8-in. to 47 ft; perforated 3-45 ft.

9/1-12R1. R. O. Adams. Altitude 720 ft. Drilled by Harry A. Robinson Well Drilling, 1955

Boulders in clay	23	23
Tuffstone	29	52

Casing: 6-in. to 23 ft; unperforated.

9/1-16B1. L. B. Janota. Altitude 550 ft. Drilled by Long Drilling, 1965

Soil	2	2
Gravel, medium-sized, and boulders	8	10
Gravel, small, and clay	4	14
Gravel, medium-sized, and clay	15	29
Gravel, medium-sized	11	40

Casing: 6-in. to 40 ft; perforated 28-40 ft.

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

9/1-25E1. Ervin Robertson. Altitude 1,465 ft. Drilled by Long Drilling, 1965

Materials	Thickness (feet)	Depth (feet)
Soil	3	3
Clay, yellow	9	12
Clay, tan, and rock	1	13
Rock, black, hard	35	48
Rock, gray, hard	3	51
Rock, dark-gray, "broken"	3	54
Tuffstone, gray, hard	16	70
Tuffstone, brown, hard	5	75
Tuffstone, gray, hard	12	87
Rock, dark-gray, medium-hard	13	100
Rock, black, hard	23	123
Tuffstone, gray, hard	2	125
Rock, black, hard	95	220
Rock, black, "broken"	20	240
Tuffstone, hard	33	273

Casing: 6-in. to 20 ft; unperforated.

9/1-31A1. Dale Kirsch. Altitude 805 ft. Drilled by West Well Drilling, 1960

Soil, brown, sticky, and tan sandy clay	13	13
Tuffstone, blue-gray	29	42
Coal or shale, carboniferous; partly burned shiny black cuttings leave a yellow ash	8	50
Tuffstone, blue-gray	50	100

Casing: 6-in. to 20 ft; unperforated.

9/2-18A1. Mehama Egg Co. Altitude 705 ft. Drilled by Pete Tolmasoff Well Drilling, 1964

Soil, dark	4	4
Cobbles (4-in. to 10-in. diam)	4	8
Cobbles, boulders, and gravel, cemented	12	20
Gravel, cemented	3	23
Sand, coarse, and medium-sized gravel, water-bearing	7	30
Gravel and cobbles, cemented	8	38
Gravel, coarse, and sand, packed	2	40
Gravel and cobbles, cemented	12	52
Boulders, black, hard, in shale	13	65
Shale, blue, firm	3	68

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

9/2-18A1--Continued

Materials	Thickness (feet)	Depth (feet)
Shale, green, firm	2	70
Shale, reddish-brown, firm	7	77
Shale, dark-gray, firm	3	80
Shale, purple to blue-green	10	90
Shale, dark-gray, with soft wood	5	95
Shale, gray; 1/2-in. layers of white claystone at 1-ft intervals	10	105
Shale, dark-gray	13	118
Shale, dark-gray, with thin firm layers of white vesicular lava, water-bearing (saline)	4	122

Casing: 8-in. to 60 ft; perforated 28-30 ft, 56-58 ft.

9/2-18D1. Texaco, Inc. Altitude 660 ft. Drilled by Long Drilling, 1964

Boulders and large "fill material"	10	10
Gravel, small to medium, and clay, "mixed"	25	35
Boulders, large	10	45
Gravel, medium	3	48
Tuffstone	47	95

Casing: 6-in. to 50 ft; perforated 38-48 ft.

9/2-20R1. Simpson Redwood Co. Altitude 710 ft. Drilled (driller unknown), 1951

No record	69	69
Gravel	8	77
Rock, "broken"	8	85
Rock, "broken," and shale	83	168
Sandstone	7	175
Shale, blue	278	453

Casing: 12-in. to unknown depth.

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

9/2-20R2. Simpson Redwood Co. Altitude 715 ft. Drilled (driller unknown), 1951

Materials	Thickness (feet)	Depth (feet)
Clay	7	7
Boulders	23	30
"Sandrock" (sandy shale?), yellow	6	36
"Sandrock" (sandy shale?), gray	13	49
Shale, blue	4	53
"Sandrock" (sandy shale?), black	12	65
Shale, blue	54	119

Casing: 6-in. to 34½ ft; unperforated.

9/2-21H2. Martin Jepsin. Altitude 960 ft. Drilled by R. Stadeli & Sons, 1957

Soil, brown	2	2
"Dirt," brown	40	42
Shale, brown, hard	3	45
Shale, brown, hard, water-bearing	1	46
Shale, brown, hard	11	57
Shale, blue, firm	73	130
Shale, gray	38	168

Casing: 6-in. to 48½ ft; perforated at unknown depth.

9/2-21N1. J. L. Wright. Altitude 720 ft. Drilled by J. L. Klundt, 1955

Soil and clay, brown	3	3
Sand, gravel, and boulder	17	20
Sand and gravel, cemented	13	33
Sand and gravel	14	47

Casing: 6-in. to 45 ft; unperforated.

9/2-26F1. A. L. Bryant. Altitude 775 ft. Drilled by J. L. Klundt, 1955

Soil and clay	5	5
Sand and gravel	15	20

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

9/2-26F1--Continued

Materials	Thickness (feet)	Depth (feet)
Sand and gravel, cemented	5	25
Gravel and sand, water-bearing	10	35

Casing: 6-in. to 35 ft.

9/2-27D1. North Santiam Plywood Co. Altitude 760 ft. Drilled by Miller-Robinson Well Drilling, 1966

Clay, brown	6	6
Clay, brown, with some gravel	12	18
Gravel, medium	3	21
Gravel, coarse	2	23
Gravel, medium	17	40
Clay, brown	3	43
Sand, coarse	2	45
Gravel, medium, and sand	7	52
Clay, blue	3	55
Gravel, medium, and sand	3	58
Clay, blue	7	65
Tuffstone, brown	21	86
Gravel, medium, and sand	4	90
Claystone, blue	91	181
Tuffstone, brown	71	252

Casing: 12-in. to 94 ft; perforated 35-40 ft, 43-58 ft, 86-90 ft.

9/2-27F1. North Santiam Plywood Co. Altitude 775 ft. Drilled by Miller-Robinson Well Drilling, 1966

Soil	3	3
Gravel, medium, and clay	15	18
Gravel, medium	14	32
Sand and gravel	4	36
Gravel, medium	4	40
Clay, brown	2	42
Gravel, coarse	4	46
Gravel, cemented	4	50
Gravel, medium, and sand	30	80
Clay, brown	11	91
Gravel, small, and coarse sand	16	107
Clay, brown	2	109
Gravel, medium	6	115
Clay, brown, with gravel	19	134

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

9/2-27F1--Continued

Materials	Thickness (feet)	Depth (feet)
Claystone, gray	11	145
"Silt," brown	24	169
Gravel, medium	6	175
Sand, brown, coarse	7	182
Gravel, cemented	12	194

Casing: 12-in. to 189 ft; perforated 36-80 ft, 91-115 ft, 169-182 ft.

9/2-36A1. North Santiam Plywood Co. Altitude 850 ft. Drilled by Harry A. Robinson Well Drilling, 1962

Gravel and boulders, "glacial"	89	89
"Silt," gray	21	110
"Silt," brown	17	127
Gravel	13	140
Gravel, with clay	9	149

Casing: 12-in. to 149 ft; perforated 64-87 ft, 130-149 ft.

9/3-30J1. Howard Fenner. Altitude 850 ft. Drilled by West Well Drilling, 1961

Sand, brown	5	5
Gravel, coarse to boulder-size	5	10
Tuffstone, blue-gray	184	194

Casing: 6-in. to 9 ft; unperforated.

10/1W-3D1. Cecil Leffler. Altitude 625 ft. Drilled by Edward Beagley, 1957

Clay, red, with boulders (weathered basalt)	6	6
"Bedrock," hard (basalt)	18	24
Slight break, seamy	1	25
"Bedrock," dark, hard, seamy (basalt)	33	58

Casing: 8-in. to 6 ft; unperforated.

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

10/1W-4J1. Carl Limbeck. Altitude 675 ft. Drilled by Edward Beagley, 1957

Materials	Thickness (feet)	Depth (feet)
Soil	2	2
"Bedrock," hard	22	24
Shale, blue, soft	11	35
Shale and black sand	15	50
Basalt, hard	5	55
Shale, sandy	5	60
Basalt, dark, hard, seamy	30	90
Basalt, hard, seamy, and boulder	12	102
Shale, dark, soft	3	105
Shale, blue	2	107
Shale, dark, "broken," and wood	2	109
"Rock," black, hard	1	110
Basalt, seamy	2	112
Basalt	9	121
Basalt, hard	3	124
Basalt, hard, seamy	8	132
Shale, dark, hard	1	133
Sand, black	4	137
Basalt, black, hard	2	139

Casing: 6-in. to 4 ft; unperforated.

10/1W-4M1. A. B. Leffler. Altitude 555 ft. Drilled by R. J. Strasser Drilling Co., 1941

Rock	10	10
Clay	18	28
Rock, red	25	53
Rock, blue	45	98
Rock, "honeycombed"	8	106

Casing: 6-in. to 51 ft; perforated 45-51 ft.

10/1W-5L1. A. M. Hendrickson. Altitude 400 ft. Drilled by E. J. S. Studebaker, 1951

Soil	4	4
Shale, harder with depth	106	110
Rock; gravel in rock, water-bearing at 147 ft and 218 ft	115	225

Casing: 10-in. to 110 ft; perforated 0-110 ft.

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

10/1W-7P1. Karl Tomasek. Altitude 310 ft. Drilled by Marvin Long, 1955

Materials	Thickness (feet)	Depth (feet)
Soil	3	3
Gravel, rounded	10	13
Sand, black, fine	14	27
Shale, blue	2	29
Sand, black, coarser	16	45
Shale, blue	11½	56½

Casing: 6-in. to 45½ ft; unperforated.

10/1W-19R1. John Lowers. Altitude 465 ft. Drilled by Long Drilling, 1964

Soil	2	2
Clay, tan	3	5
Claystone, yellow	31	36
Sandstone, blue, hard	24	60
Claystone, gray, mixed with red clay	25	85
Claystone, brown	7	92
Claystone, blue	30	122
Claystone, gray, hard, sticky	5	127
Claystone, gray	23	150

Casing: 6-in. to 40 ft; unperforated.

10/1W-28F1. Grant Farris. Altitude 340 ft. Drilled by Long Drilling, 1958

Soil	3	3
Clay	5	8
Gravel and clay	10	18
Gravel, cemented	7	25
Shale, blue	25	50
Sandstone	100	150
Shale, dark-blue	22	172

Casing: 8-in. to 27 ft; unperforated.

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

10/1W-29D1. K. E. Mott. Altitude 425 ft. Drilled by Bob's Well Drilling, 1966

Materials	Thickness (feet)	Depth (feet)
Soil, black	2	2
Clay, yellow	5	7
Sand, gravel, and hard yellow clay	12	19
Sandstone, gray, hard	66	85
Sand, gray	5	90

Casing: 4-in. to 20 ft; unperforated.

10/1W-33R1. O. L. Wood. Altitude 320 ft. Dug by owner, 1958

Soil	4	4
Gravel, fine	4	8
Gravel, coarse (7.3-in. diam)	4	12
Boulders (12-in. diam)	-	12

Casing: Unknown.

10/1W-35H1. Christian Rebman. Altitude 355 ft. Drilled by Long Drilling, 1964

Former well	105	105
Claystone, dark-blue, hard	5	110
Claystone, brown	3	113
Claystone, gray	5	118
Coal, black, hard	1	119
Claystone, gray	31	150
Claystone, tan, sticky	30	180
Rock, mixed colors of white, brown, and black	10	190
Claystone, tan, sticky	18	208

Casing: 8-in. to 19 ft; unperforated.

10/2W-1A1. Southern Pacific Co. Altitude 355 ft. Drilled by W. A. Slate, 1928

Soil, gravelly, hard, and clayey	28	28
Gravel, loose, water-bearing	5	33
Clay	18	51
Rock, hard, water-bearing at base	-	51

Casing: 6-in. to 34 ft; perforated 28-34 ft.

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

10/2W-1B1. Alice Music. Altitude 342 ft. Drilled by E. P. Brown Drilling, 1966

Materials	Thickness (feet)	Depth (feet)
Clay and gravel	25	25
Gravel, cemented	10	35

Casing: 6-in. to 35 ft; unperforated.

10/2W-4C1. Gale Hart. Altitude 285 ft. Drilled by West Well Drilling, 1959

Soil, sandy, and clay	7½	7½
Sand and gravel to boulder size, unconsolidated; much silt and some clay in gravels	28½	36

Casing: 8-in. to 36 ft; perforated 21-36 ft.

10/2W-5P2. Ernest Pletzer. Altitude 276 ft. Drilled by Pete Tolmasoff Well Drilling, 1964

Soil, sandy	1	1
Cobbles and coarse sand and gravel	7	8
Gravel, cemented	5	13
Sand, coarse, loose	5	18
Gravel, cemented	2	20
Gravel, "heavy," silted	1	21
Gravel, cemented	6	27
Sand, coarse, and gravel, water-bearing	5	32
Gravel, cemented	5	37
Sand, coarse, loose, silted	2	39
Gravel, coarse, "hard-packed" (cemented?)	6	45
Sand, coarse, and gravel	2	47
Sand, medium	3	50

Casing: 8-in. to 48 ft; perforated 18-48 ft.

10/2W-5Q1. Ernest Pletzer. Altitude 278 ft. Drilled by G. A. Pruitt Well Drilling, 1958

Soil	1	1
Gravel, cemented	9	10
Boulders, 2-in. to 8-in. diam, in yellow clay	21	31
Clay, yellow, soft	5	36

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

10/2W-5Q1--Continued

Materials	Thickness (feet)	Depth (feet)
Gravel and clay	2	38
Clay, blue	-	38

Casing: 8-in. to 38 ft; perforated 28-38 ft.

10/2W-6C1. O. A. Hall. Altitude 260 ft. Drilled by West Well Drilling, 1952

Soil	8	8
Gravel	14	22

Casing: 10-in. to 22 ft; perforated 10-22 ft.

10/2W-6J1. J. K. Kihs. Altitude 274 ft. Drilled by C. A. Studebaker, 1945

Soil	2	2
Gravel, "hard," water-bearing	53	55
Clay, sandy, no water	14	69

Casing: 6-in. to 64 ft; unperforated.

10/2W-7N3. D. T. Henion. Altitude 245 ft. Drilled by West Well Drilling, 1957

Silt and sand	8	8
Gravel, coarse, and boulders and sand, unconsolidated	7	15
Gravel, blue, coarse, and brown sand, water-bearing	5	20
Gravel, small, loose, and sand; rust stain	3	23

Casing: 8-in. to 23 ft; perforated 11-23 ft.

10/2W-8E1. Gary Barna. Altitude 250 ft. Drilled by Pete Tolmasoff Well Drilling, 1965

Soil	1	1
Clay, brown, "heavy," firm	13	14
Gravel, cemented	9	23
Clay, soft, and gravel	4	27
Gravel, cemented	8	35

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

10/2W-8E1--Continued

Materials	Thickness (feet)	Depth (feet)
Clay, soft, and gravel	2	37
Gravel, cemented	20	57
Gravel, silted	4	61

Casing: 6-in. to 61 ft; perforated 55-60 ft.

10/2W-8N2. William Uppstad. Altitude 253 ft. Drilled by Ace Drilling Co., 1957

Soil and sand	4	4
Gravel	5	9
Basalt boulders	8	17
Gravel and sand, water-bearing	4	21

Casing: 10-in. to 21 ft; perforated 15-20 ft.

10/2W-9D2. P. F. and E. L. Platzer. Altitude 273 ft. Drilled (driller unknown), 1956

Silt, "river-bottom," and fine brown sand	8	8
Sand, coarse, and gravel, unconsolidated, dry	5	13
Sand, coarse, loose, and 5-6-in.-diameter gravel, with some silt, water-bearing	15	28

Casing: 8-in. to 28 ft; perforated 15-28 ft.

10/2W-10R1. G. L. Thurston. Altitude 301 ft. Drilled (driller unknown), 1949

Soil	5	5
Gravel, cemented	25	30
Sand	4	34
Clay, blue, sandy	6	40
"Alluvium, young" (sand and gravel), water-bearing	15	55
Gravel, cemented	5	60
"Alluvium, young" (sand and gravel), water-bearing	4	64

Casing: 10-in. to 62 ft; perforated 40-62 ft.

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

10/2W-12N1. West Scio Fertilizer Co. Altitude 305 ft. Drilled by Pete Tolmasoff Well Drilling, 1965

Materials	Thickness (feet)	Depth (feet)
Soil	1	1
Clay, gray, "heavy"	11	12
Gravel, cemented	13	25
Clay, brown, soft	2	27
Clay, gravel, and cobbles	9	36
Gravel, cemented, water-bearing	22	58
Shale, brown, hard	4	62
Shale, green, hard	1	63

Casing: 6-in. to 60 ft; perforated 42-58 ft; backfilled to 61 ft.

10/2W-14E1. Frank Senz. Altitude 285 ft. Drilled by G. A. Pruitt Well Drilling, 1961

Soil	3	3
Clay, brown	13	16
Gravel, coarse, with clay	22	38
Sand and gravel, fine, with some clay, water-bearing	6	44
Clay, brown, soft	8	52
Clay, with coarse gravel	30	82
Clay, brown, sandy	10	92
Clay, blue, soft	8	100

Casing: 10-in. to 82 ft; perforated 35-45 ft, 62-82 ft.

10/2W-15F1. Mrs. W. H. Faulkner. Altitude 285 ft. Drilled by Ace Drilling Co., 1948

Loam, sandy	2	2
Gravel, hard, and clay	15	17
Sand and gravel	10	27

Casing: 10-in. to 20 ft; perforated 13-20 ft.

10/2W-17D1. Tessa Watkins. Altitude 251 ft. Drilled by Ace Drilling Co., 1962

Clay	6	6
Clay, yellow, and gravel	9	15

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

10/2W-17D1--Continued

Materials	Thickness (feet)	Depth (feet)
Clay, yellow, and sand and gravel	5	20
Gravel, large	7	27

Casing: 10-in. to 27 ft; perforated 21-26 ft.

10/2W-18E3. A. W. Winslow. Altitude 240 ft. Drilled by West Well Drilling, 1964

Soil and silt	3	3
Sand, coarse, and some gravel and silt, unconsolidated	14	17
Gravel, loose, coarse, with brown sand	7	24

Casing: 8-in. to 24 ft; perforated 11-24 ft.

10/2W-19C2. Dale Eisenmann. Altitude 240 ft. Drilled by West Well Drilling, 1957

Silt, sandy	4	4
Sand, coarse, and gravel to boulder size, unconsolidated	18	22
Clay, blue	½	22½
Gravel, small, and sand, unconsolidated	4½	27
Clay, yellow, changing to soft blue shale	3	30

Casing: 8-in. to 27 ft; perforated 15-27 ft.

10/2W-19Q2. N. D. Bradley. Altitude 230 ft. Drilled by Pete Tolmasoff Well Drilling, 1966

Soil, sandy	8	8
Gravel, cemented	5	13
Gravel, silted, "packed"	2	15
Gravel, rounded, and sand, loose, water-bearing	1	16
Clay and gravel	3	19
Gravel, rounded, and sand, water-bearing	3	22
Sand, silted, "packed"	-	22

Casing: 10-in. to 22 ft; perforated 18-22 ft.

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

10/2W-21R1. H. C. Robertson. Altitude 262 ft. Drilled by Harry A. Robinson Well Drilling, 1960

Materials	Thickness (feet)	Depth (feet)
Clay, "heavy"	4	4
Clay, sand, with some gravel	4	8
Sand, cemented, and coarse gravel	24	32
Sand and gravel, loose, water-bearing	2	34
Gravel, cemented with layers of tan clay	7	41
Gravel, partly cemented, with layers of clean gravel	7	48
Clay	7	55
Sand and gravel, unconsolidated	4	59
Clay, blue, with sandy layers	35	94

Casing: 8-in. to 60 ft; perforated 25-59 ft.

10/2W-22G1. Scio Ranches, Inc. Altitude 265 ft. Drilled by Miller-Robinson Well Drilling, 1966

Clay, brown	5	5
Clay and gravel, brown	6	11
Clay, blue	7	18
Gravel, small to medium, and sand	11	29
Clay, brown	6	35
Gravel, small to medium	9	44
Clay, brown	2	46
Sand and gravel, brown	13	59
Claystone, blue	60	119
Sand and gravel	7	126
Gravel, cemented	1	127
Gravel, small to medium	3	130
Gravel, cemented	3	133
Gravel, small to medium	2	135
Claystone, blue	30	165

Casing: 12-in. to 141 ft; perforated 35-44 ft, 46-59 ft, 119-135 ft.

10/2W-29L2. D. W. Blakely. Altitude 245 ft. Driven (driver unknown), 1945

Soil	4	4
Sand and clay	6	10
Clay, blue	1	11
Gravel and boulders	13	24

Casing: 3½-in. to 24 ft; perforated 18-24 ft.

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

10/2W-30N1. Zelma Bond. Altitude 230 ft. Drilled by Merle Warren Well Drilling, 1965

Materials	Thickness (feet)	Depth (feet)
Soil	3	3
Clay	11	14
Clay and gravel	11	25
Gravel	10	35
Clay, blue, and gravel	10	45
Sand and gravel, black	6	51
Clay, blue, and gravel	1	52
Clay, blue	30	82
Clay, brown	9	91
Clay, blue	49	140

Casing: 10-in. to 52 ft; perforated 39-52 ft.

10/2W-30R1. Harry Bose. Altitude 245 ft. Drilled by Merle Warren Well Drilling, 1966

Soil	9	9
Gravel	10	19
Clay, brown, and gravel	36	55
Clay, brown	3	58
Clay, brown, and gravel	2	60
Gravel, "washed"	8	68
Clay, blue	3	71
Sand and gravel, black	4	75
Clay, blue	4	79
Sand and gravel, black	15	94
Clay, dark-brown	11	105
Clay, blue	8	113
Clay, green, and shale	2	115
Clay, dark-brown	2	117
Sand, black	8	125
Clay, blue	2	127

Casing: 10-in. to 121 ft; perforated 109-121 ft.

10/2W-32F1. Clarence Cox. Altitude 247 ft. Drilled by Ace Drilling Co., 1956

Soil and clay	8	8
Gravel and sand	7	15
Gravel, water-bearing	11	26

Casing: 8-in. to 26 ft; perforated 16-25 ft.

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

10/2W-33A1. L. C. Stucker. Altitude 251 ft. Drilled by Ace Drilling Co., 1959

Materials	Thickness (feet)	Depth (feet)
Soil and clay, "heavy"	16	16
Sand, gravel, and clay, brown	4	20
Gravel, loose	4	24
Clay, brown, and small gravel	4	28

Casing: 10-in. to 28 ft; perforated 22-27 ft.

10/3W-1A2. Gerald Sheffield. Altitude 250 ft. Drilled by Pete Tolmasoff Well Drilling, 1965

Soil	2	2
Cobbles, small, and clay	5	7
Gravel, cemented	8	15
Sand, loose, and gravel and clay	5	20
Gravel, cemented	3	23
Gravel, loose, and sand	2	25
Clay, blue, firm	1	26

Casing: 4-in. to 25 ft; perforated 23-25 ft.

10/3W-1N1. Jefferson High School. Altitude 226 ft. Drilled (driller unknown), 1952

Rock and gravel, loose	53	53
Clay, blue	137	190
Clay, red, and soft rock, with pieces of wood	10	200

Casing: No casing; abandoned.

10/3W-2B1. Lewis Earll. Altitude 226 ft. Drilled by Pete Tolmasoff Well Drilling, 1964

Soil	3	3
Cobbles, small, and clay	9	12
Clay, brown, soft	11	23
Sandstone, brown, firm, water-bearing	7	30
Clay, blue, soft	135	165
Shale, brown	5	170
Shale, blue, firm layers	50	220
Shale, brown, firm, water-bearing	5	225
Shale, gray, firm to hard	55	280

Casing: 6-in. to 208 ft; perforated 29-30 ft.

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

10/3W-2M1. F. H. Miller. Altitude 215 ft. Drilled (driller unknown), 1940

Materials	Thickness (feet)	Depth (feet)
Loam, sandy	15	15
Gravel	10	25
Unrecorded	5	30

Casing: 8-in. to 30 ft; perforated 15-25 ft.

10/3W-3B2. D. L. Turnidge. Altitude 205 ft. Drilled by Ace Drilling Co., 1959

Loam, sandy	3	3
Clay, sandy	4	7
Sand and gravel	9	16
Gravel, clean, water-bearing	15	31

Casing: 10-in. to 31 ft; perforated 25-30 ft.

10/3W-3M1. William Schwab. Altitude 201 ft. Drilled (driller unknown), 1942

Soil	8	8
Sand, fine	8	16
Sand, coarse	2	18
Rock (gravel?), water-bearing	5	23

Casing: 10-in. to 23 ft; perforated 18-23 ft.

10/3W-4G2. Carl Tonack. Altitude 200 ft. Drilled by J. A. Sneed & Sons, 1960

Soil	2	2
Gravel, 3-in.-diameter	2	4
Clay, yellow	2	6
Sand, fine-grained	3	9
Gravel, cemented	3	12
Gravel, 3-in.-diameter, water-bearing	10	22
Gravel, 2-in.-diameter, water-bearing	4	26

Casing: 8-in. to 26 ft; perforated 12-23½ ft.

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

10/3W-5K4. Jack Pesheck. Altitude 180 ft. Drilled by Ace Drilling Co., 1959

Materials	Thickness (feet)	Depth (feet)
Loam, sandy	6	6
Clay, sandy	3	9
Sand	3	12
Sand and gravel	7	19
Gravel, large	3	22
Gravel, small	3	25

Casing: 6-in. to 25 ft; perforated 21-24 ft.

10/3W-6P2. L. D. Cook. Altitude 178 ft. Drilled by Ace Drilling Co., 1962

Clay	12	12
Gravel, large, and yellow clay	2	14
Gravel and sand, mixed sizes	8	22
Gravel and sand, medium-large, layered	9	31

Casing: 10-in. to 31 ft; perforated 25-30 ft.

10/3W-7A2. M. W. Fletcher. Altitude 178 ft. Drilled by Merle Warren Well Drilling, 1966

Soil	10	10
Sand and gravel	10	20
Gravel, coarse	12	32
Clay, blue	3	35

Casing: 10-in. to 34 ft; perforated 23-34 ft.

10/3W-7P1. Walter Mangell. Altitude 195 ft. Drilled by Merle Warren Well Drilling, 1959

Soil	3	3
Clay, yellow	23	26
Sand, dirty, and gravel	3	29
Gravel, coarse, water-bearing	8	37
Sand, fine	1	38

Casing: 8-in. to 38 ft; perforated 22-38 ft.

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

10/3W-8A3. David Harnisch. Altitude 190 ft. Drilled by Merle Warren Well Drilling, 1965

Materials	Thickness (feet)	Depth (feet)
Soil	2	2
Sand	2	4
Sand and gravel	19	23
Gravel, coarse	5	28

Casing: 8-in. to 28 ft; perforated 18-28 ft.

10/3W-9B1. N. V. Shelby. Altitude 200 ft. Drilled by Ace Drilling Co., 1959

Loam, sandy	13	13
Sand and gravel	7	20
Gravel, water-bearing	6	26

Casing: 10-in. to 26 ft; perforated 20-25 ft.

10/3W-9F1. David Harnisch. Altitude 202 ft. Drilled by Merle Warren Well Drilling, 1962

Soil	6	6
Boulders	9	15
Gravel, dirty	5	20
Gravel, water-bearing	10	30
Sand and gravel	4	34
Gravel	6	40

Casing: 8-in. to 40 ft; perforated 28-40 ft.

10/3W-9Q2. L. A. Drager. Altitude 205 ft. Drilled by Merle Warren Well Drilling, 1965

Soil	9	9
Sand and gravel	9	18
Gravel, coarse	17	35
Clay, blue	2	37

Casing: 10-in. to 37 ft; perforated 23-37 ft.

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

10/3W-10J2. H. J. Miller. Altitude 215 ft. Drilled by Ace Drilling Co., 1960

Materials	Thickness (feet)	Depth (feet)
Clay and soil	3	3
Clay, sandy, and sand	4	7
Gravel, water-bearing	11½	18½

Casing: 10-in. to unknown depth; perforated 12-17 ft.

10/3W-11N3. Clara C. Kizer. Altitude 215 ft. Drilled by Ace Drilling Co., 1957

Loam, sandy	6	6
Sand, gravel, and clay	4	10
Sand and gravel, water-bearing	12½	22½

Casing: 10-in. to 22½ ft; perforated 17-22 ft.

10/3W-12E1. Alva Riddle. Altitude 230 ft. Drilled by Merle Warren Well Drilling, 1958

Soil	2	2
Clay	10	12
Gravel	6	18
Boulders	4	22
Gravel	4	26
Sand and gravel	4	30
Clay, blue	2	32

Casing: 6-in. to 28 ft; perforated 20-28 ft.

10/3W-12N3. Town of Jefferson. Altitude 227 ft. Drilled (driller unknown), 1951

Sand and gravel	33	33
Shale, soft	32	65
Rock, hard, sedimentary (sandstone?)	55	120
Shale, hard	4	124

Casing: 8-in. to unknown depth; perforated 24-30 ft.

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

10/3W-13B2. N. D. Bradley. Altitude 240 ft. Drilled by Ace Drilling Co., 1960

Materials	Thickness (feet)	Depth (feet)
Soil and clay	5	5
Sand, brown	5	10
Sand, brown, and gravel	5	15
Rock (gravel?), large, water-bearing	9½	24½
Clay	-	-

Casing: 10-in. to 24½ ft; perforated 17-23 ft.

10/3W-14B2. Scravel Hill Water Coop. Altitude 220 ft. Drilled by Ace Drilling Co., 1961

Clay	7	7
Clay, yellow, with hard gravel	2	9
Gravel, coarse, clean	19	28
Sand and gravel	½	28½

Casing: 8-in. to 28½ ft; perforated 23-27½ ft.

10/3W-14N1. Raymond Fordham. Altitude 340 ft. Drilled by Merle Warren Well Drilling, 1963

Soil	2	2
Clay	1	3
Sandstone	32	35
Shale, gray	35	70
Shale, black	10	80
Shale, gray	34	114
Gravel, medium-sized, rounded	2	116
Shale, gray	76	192

Casing: 6-in. to 95 ft; unperforated.

10/3W-15A1. Ed Ammon. Altitude 220 ft. Drilled by Merle Warren Well Drilling, 1962

Soil	3	3
Clay, brown	7	10
Boulders	5	15
Sand and gravel	15	30

Casing: 8-in. to 30 ft; perforated 22-30 ft.

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

10/3W-15M1. Peterson. Altitude 310 ft. Drilled by Ace Drilling Co., 1959

Materials	Thickness (feet)	Depth (feet)
Soil and clay	5	5
"Rock, shelf"	30	35
Shale, hard, with soft streaks	205	240
Sand, black	5	245
Shale, gray	10	255

Casing: 6-in. to 40 ft; unperforated.

10/3W-15P1. G. K. Miller. Altitude 465 ft. Drilled by Willamette Irrigation & Equipment Co., 1965

Soil	1½	1½
Clay, yellow, sticky	26½	28
Clay, gray, very sticky	19	47
Sandstone, dark-gray, very hard	4	51
Sandstone, yellow	19	70

Casing: 8-in. to 50 ft; unperforated.

10/3W-16Q2. B. J. Silveira. Altitude 220 ft. Drilled by Klaus & Beagley Drilling Co., 1958

Soil	6	6
Clay, yellow	7	13
Clay and gravel	6	19
Gravel, cemented	6	25
Clay, red, sandy	1	26
Clay, blue	13	39
Sand, "hard" (cemented?)	2	41
Sand, brown, fine	2	43
Clay, blue	28	71
Sand, black	7	78
Clay, gray	14	92
Clay, gray, with very fine sand	23	115
Clay, green, sandy	15	130
Boulder and coarse gravel	3	133
Shale, white, soft	17	150

Casing: 6-in. to 130 ft; perforated 40-65 ft, 70-76 ft, 90-95 ft, 122-128 ft.

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

10/3W-17K1. Ernest Henschel. Altitude 210 ft. Drilled by Merle Warren Well Drilling, 1964

Materials	Thickness (feet)	Depth (feet)
Soil	2	2
Clay, yellow	26	28
Gravel, dirty	16	44
Gravel, water-bearing	2	46
Sandstone, gray	2	48

Casing: 6-in. to 47 ft; perforated 38-47 ft.

10/3W-18D1. G. E. Weber. Altitude 180 ft. Drilled by Ace Drilling Co., 1956

Soil and gravel	5	5
Gravel and some clay, water-bearing	11	16
Gravel, water-bearing	15½	31½

Casing: 10-in. to 31½ ft; perforated 24-30½ ft.

10/3W-18K3. G. L. Rohner. Altitude 185 ft. Drilled by Merle Warren Well Drilling, 1962

Soil	2	2
Clay	14	16
Gravel, dirty	6	22
Sand and gravel	18	40
Gravel, coarse	11	51
Clay, blue	9	60

Casing: 8-in. to 54 ft; perforated 44-54 ft.

10/3W-19D1. William Brennon. Altitude 201 ft. Drilled by Klaus & Beagley Drilling Co., 1958

Soil, "light" (colored?)	6	6
Clay, yellow	21	27
Gravel, "light" (colored?), water-bearing	5	32
Sand, dark, fine	7	39
Boulder, large, mixed with blue clay	1	40
Clay, blue	10	50

Casing: 10-in. to 40 ft; perforated 17-39 ft.

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

10/3W-19K1. Lester Conser. Altitude 199 ft. Drilled by C. E. Gardenier prior to 1929

Materials	Thickness (feet)	Depth (feet)
Soil	3	3
Clay, yellow	22	25
Gravel	7	32
Clay, blue	8	40
"Sandrock" (sandy clay?), blue	50	90
Sandstone, porous, water-bearing, salty	1	91
Sandstone, blue	69	160
Water-bearing, very saline	-	160

Casing: Casing pulled; well abandoned.

10/3W-19M1. Robert Groshong. Altitude 200 ft. Drilled by N. Klaus Drilling Co., 1960

Soil	3	3
Clay	22	25
"Hardpan" (cemented gravel?)	8	33
Gravel, coarse	6	39

Casing: 8-in. to 39 ft; perforated 33½-38½ ft.

10/3W-20K1. Eldon Chowning. Altitude 227 ft. Drilled by Hamilton Drilling Co., 1959

Clay	26	26
Sand and clay	19	45
Sand	1	46
Clay, sandy	100	146
Clay, blue	4	150

Casing: 6-in. to 150 ft; perforated 105-110 ft, 120-126 ft, 142-148 ft.

10/3W-20R1. Dick Draper. Altitude 228 ft. Drilled by Merle Warren Well Drilling, 1964

Soil	2	2
Clay and gravel	26	28
Clay, yellow	10	38
Shale	24	62

Casing: 6-in. to 44 ft; perforated 36-44 ft.

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

10/3W-21F1. W. K. Powell. Altitude 235 ft. Drilled by Ace Drilling Co., 1962

Materials	Thickness (feet)	Depth (feet)
Clay	16	16
Clay, with gravel, "mixed"	12	28
Clay, sand, and gravel	7	35
Sand and gravel	4	39
Clay, blue	11	50
Shale and conglomerate, dark-gray to light-gray, soft and hard streaks	117	167

Casing: 6-in. to 80 ft; perforated 35-39 ft, 55-59 ft, 75-79 ft.

10/3W-21Q1. Engineering Management, Inc. Altitude 235 ft. Drilled by Merle Warren Well Drilling, 1962

Soil	3	3
Clay	14	17
Gravel	9	26
Clay, blue	41	67
Clay, brown	8	75
Clay, yellow	10	85
Sand, gray	40	125
Clay, brown	50	175
Sandstone, gray	1	176
Clay, brown	15	191
Clay, hard	3	194
Sandstone	3	197
Clay, brown	9	206
Sandstone, gray	4	210
Clay, brown	40	250

Casing: 6-in. to 154 ft; perforated 17-26 ft, 144-154 ft.

10/3W-23L1. E. W. McDaniels. Altitude 365 ft. Drilled by Merle Warren Well Drilling, 1960

Soil	3	3
Clay, brown	16	19
Sandstone, gray	21	40
Clay, blue	3	43
Shale, blue	22	65

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

10/3W-23L1--Continued

Materials	Thickness (feet)	Depth (feet)
Boulder, black	2	67
Shale, blue	38	105
Sand and shale, black	10	115
Shale	5	120

Casing: 6-in. to 25 ft; unperforated.

10/3W-24K1. Jim Towery. Altitude 225 ft. Drilled by Pete Tolmasoff Well Drilling, 1966

Soil, sandy	2	2
Sand, clean	3	5
Sand, silted	6	11
Gravel, cemented	5	16
Gravel, small, and sand	1	17
Gravel, rounded, and sand, water-bearing	2	19
Gravel and fine sand, blue	3	22
Clay and gravel, hard	-	-

Casing: 10-in. to 22 ft; perforated 18-22 ft.

10/3W-25D1. I. C. Pinkston. Altitude 290 ft. Drilled by Ace Drilling Co., 1961

Clay	12	12
Shale	23	35
Shale, gray	25	60
Shale, dark-gray	38	98
Shale, very dark-gray	14	112
Shale, black, and gravel	4	116

Casing: 6-in. to 58 ft; unperforated.

10/3W-26M1. Lester Kropf. Altitude 247 ft. Drilled by Merle Warren Well Drilling, 1956

Soil	5	5
Clay, sandy	25	30

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

10/3W-26M1--Continued

Materials	Thickness (feet)	Depth (feet)
Gravel, cemented	10	40
Gravel, water-bearing	6	46

Casing: 6-in. to 45½ ft; perforated 37-45 ft.

10/3W-27J1. Clover Ridge School. Altitude 250 ft. Drilled by Merle Warren Well Drilling, 1965

Soil	3	3
Clay	15	18
Clay and gravel	10	28
Clay, sandy	8	36
Sand and gravel	12	48
Clay, blue	13	61

Casing: 8-in. to 52½ ft; perforated 43-52½ ft.

10/3W-28K1. Tidewater Oil Co. Altitude 245 ft. Bored by Andy M. Jannsen Well Drilling, 1959

Clay, dry	24	24
Clay, blue, wet	4	28
Clay, blue	23	51
"Hardpan"	9	60
Clay, blue	15	75
Clay, blue, and sand	10	85
"Rock" (shale?), sandy	1	86

Casing: 6-in. to 24 ft; unperforated.

10/3W-28Q1. Shell Oil Co. Altitude 225 ft. Drilled by Robinson Drilling & Supply, 1959

Clay, yellow	7	7
Clay, light-brown	3	10
Clay, orange	3	13
Clay, light-brown	10	23
Clay, orange	7	30
Clay, dark-brown, with wood fragments and leaves	2	32

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

10/3W-28Q1--Continued

Materials	Thickness (feet)	Depth (feet)
Clay, blue	25	57
Clay, dark-gray	3	60
Clay, blue	10	70
Sandstone, light-blue, soft, water-bearing at 100 ft (2½ gpm)	75	145
Clay, black, with wood fragments	25	170
Clay, brown	8	178
Clay, gray	7	185

Casing: 6-in. to 185 ft; unperforated.

10/3W-33K2. C. Bean. Altitude 210 ft. Drilled by Merle Warren Well Drilling, 1963

Soil	3	3
Clay	7	10
Gravel	32	42
Clay, sandy	18	60
Clay, blue	17	77
Sand, brown, and gravel	8	85
Sandstone	5	90

Casing: 6-in. to 77 ft; perforated 70-77 ft.

10/3W-34H1. J. L. Crisp. Altitude 230 ft. Drilled by Merle Warren Well Drilling, 1959

Soil	3	3
Clay, yellow	19	22
Gravel, dirty	12	34
Gravel, bright	4	38
Sand, dark	6	44
Gravel, coarse	4	48
Clay, yellow	2	50

Casing: 8-in. to 49 ft; perforated 37-49 ft.

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

10/3W-36C1. George Lines. Altitude 245 ft. Driven by William Slate, 1959

Materials	Thickness (feet)	Depth (feet)
Soil	1½	1½
Clay, blue, and sand	18½	20
"Hardpan," blue, with soft red streaks	6	26
Gravel, yellow	24	50

Casing: 1¼-in. to 50 ft; unperforated.

10/4W-1G2. Ammon Bros. Altitude 175 ft. Drilled by Merle Warren Well Drilling, 1959

Soil	7	7
Gravel, dirty	11	18
Gravel, water-bearing	21	39

Casing: 10-in. to 39 ft; perforated 27-39 ft.

10/4W-1R2. L. D. Cook. Altitude 175 ft. Drilled by Ace Drilling Co., 1956

Soil and clay	8	8
Gravel, with clay	8	16
Sand and gravel	4	20
Gravel, water-bearing	7½	27½

Casing: 10-in. to 27½ ft; perforated 18-27½ ft.

10/4W-11A1. A. A. Chambers. Altitude 170 ft. Drilled by N. Klaus Drilling Co., 1960

Soil	4	4
Sand	8	12
Gravel	20	32

Casing: 8-in. to 32 ft; perforated 21-31 ft.

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

10/4W-12A1. L. F. Michele. Altitude 177 ft. Drilled (driller unknown), 1947

Materials	Thickness (feet)	Depth (feet)
Soil	2	2
Sand	12	14
Gravel	9½	23½

Casing: 10-in. to 23½ ft; perforated 14½-23½ ft.

10/4W-12L1. M. C. Hoefer. Altitude 185 ft. Drilled by Ace Drilling Co., 1948

Soil	10	10
Gravel, medium, water-bearing	25	35
Clay, blue	-	35+

Casing: 10-in. to 35 ft; perforated 26-33 ft.

10/4W-12P2. Gordon Hoefer. Altitude 184 ft. Drilled by Ace Drilling Co., 1963

Soil and clay	6	6
Clay and sand, brown	12	18
Gravel, medium	13	31
Clay, brown	1	32

Casing: 10-in. to 31 ft; perforated 25-30 ft.

10/4W-13C3. James Grate. Altitude 183 ft. Drilled by Burr Rambo Well Drilling, 1963

Soil, black	3	3
Clay, yellow	17	20
Gravel and yellow clay, "fine," "mixed"	12	32
Clay, blue	8	40

Casing: 10-in. to 30 ft; perforated 21-29 ft.

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

10/4W-24K1. Clifford Chambers. Altitude 192 ft. Drilled by Burr Rambo Well Drilling, 1963

Materials	Thickness (feet)	Depth (feet)
Soil, black	2	2
Clay, brown	23	25
Gravel, with green clay	16	41

Casing: 6-in. to 41 ft; perforated 28-38 ft.

10/1-7E1. J. L. Klundt. Altitude 440 ft. Drilled by J. L. Klundt, 1956

Clay, brown and red	8	8
Boulders	12	20
Shale, blue	9	29
"Rock," blue	8	37

Casing: 6-in. to 37 ft; unperforated.

10/1-9L1. Bennie Silbernagel. Altitude 740 ft. Drilled by R. Stadeli & Sons, 1960

Soil, brown	1½	1½
Dirt, brown	2½	4
Sandstone, brown	6	10
Sandstone, brown, mixed with some cobbles	5	15
Sandstone, brown, medium-hard	20	35
Rock, dark-blue, medium-hard, water-bearing at 40 ft	5	40
Rock, dark-blue, hard	3	43
Tuffstone, bluish-gray, medium-hard	71	114
Tuffstone, dark-gray, hard	3	117
Tuffstone, grayish-brown and occasionally a lavender tint	98	215
Tuffstone, gray, soft, with streaks of coal	3	218
Shale, gray, medium-hard, mixed with some coal	19	237
Rock, black, hard	2	239
Rock, black, very hard	1	240

Casing: None installed.

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

10/1-9L2. Bennie Silbernagel. Altitude 740 ft. Drilled by R. Stadeli & Sons, 1960

Materials	Thickness (feet)	Depth (feet)
Soil, brown	1½	1½
Dirt, brown	1½	3
Sandstone, medium-brown	5	8
Sandstone and cobblestones, medium-brown	12	20
Sandstone, light-brown, soft	25	45
Sandstone, light-brown, medium-hard, water-bearing at 53 ft (13 gpm)	10	55
Shale, bluish-gray, sandy, soft	3	58
Tuffstone, dark-gray, medium-hard	42	100
Tuffstone, dark-gray, hard	10	110
Shale, grayish-brown, mixed with pieces of coal	14	124
Shale, grayish-green, soft	3	127
Tuffstone, medium-gray, hard	10	137
Tuffstone, gray, hard	1	138
Tuffstone, gray, medium-hard	17	155
Tuffstone, gray, soft, water-bearing at 158 ft (5 gpm)	12	167
Tuffstone, light-gray, medium-hard	3	170
Shale, gray, medium-hard, mixed with small pieces of coal	20	190
Shale, gray, soft	6	196
Shale, gray, medium-hard, water-bearing at 210 ft (6 gpm)	21	217
Shale, brick-red, medium-hard	4	221

Casing: 6-in. to 52 ft; unperforated.

10/1-15G1. A. L. Way. Altitude 810 ft. Drilled by West Well Drilling, 1959

Rock, "broken," and boulders in tan clay (weathered basalt?)	8	8
Tuffstone, bluish-gray	41	49
Tuffstone, "broken," caving, with some reddish material, water-bearing	2	51

Casing: 6-in. to 21 ft; unperforated.

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

10/1-16J1. E. R. Burton. Altitude 560 ft. Drilled by R. Stadeli & Sons, 1961

Materials	Thickness (feet)	Depth (feet)
Soil, brown	3	3
Soil, sandy, and brown clay	12	15
Tuffstone, gray	35	50

Casing: 6-in. to 22 ft; unperforated.

10/1-21K1. Luley Bros. Lumber Co. Altitude 580 ft. Drilled by R. M. Tomlinson, 1963

Clay, dark	18	18
Claystone, purple	7	25
Clay, sandy	3	28
Sandstone	7	35
Claystone, black, hard	75	110
Sand and gravel, medium-hard	1	111

Casing: 6-in. to 40 ft; unperforated.

11/1W-2C1. George Rice. Altitude 355 ft. Drilled by Long Drilling, 1962

Soil	4	4
Gravel, medium-sized, and clay	14	18
Sandstone, black, medium-hard	56	74
Claystone, gray and green	6	80
Sandstone, black, medium-hard	3	83
Claystone, brown	1	84
Sandstone, gray, medium-hard	3	87
Claystone, brown	1	88

Casing: 6-in. to 25 ft; unperforated.

11/1W-14H1. William Ede. Altitude 510 ft. Drilled by H & H Drilling, 1965

Former well	34	34
Claystone, brown	5	39
Claystone and clay, gray	61	100

Casing: 6-in. to 32 ft; unperforated.

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

11/1W-19M1. Wimer Logging Co. Altitude 327 ft. Drilled by W. R. Davis, 1960

Materials	Thickness (feet)	Depth (feet)
Soil	3	3
"Rock," dirt, and boulders	21	24
Clay, blue	33	57
"Rock," soft	8	65
Clay, blue	85	150

Casing: 8-in. to 140 ft; perforated 52-72 ft.

11/1W-20N1. Seth Downer. Altitude 365 ft. Drilled by H & H Drilling, 1963

Soil	1	1
Clay, tan, and fine gravel	15	16
Clay, rusty, and gravel	4	20
Clay, blue	12	32
Clay, brown	43	75
Clay, brown and blue	15	90
Clay, blue	10	100
Sand, black, coarse, with preserved wood	1	101
Clay, blue, and sand	3	104
Clay, brown	16	120
Clay, brown and blue	10	130
Clay, blue	12	142
Clay, blue, and sand	5	147
Clay, blue	38	185
Claystone, blue	27	212
Clay, blue, and silt	6	218
Sand and gravel, mixed, with preserved wood	5	223
Clay, blue	2	225

Casing: 6-in. to 221 ft; unknown finish.

11/1W-25C1. Archie Wolfenberger. Altitude 650 ft. Drilled by Bob's Well Drilling, 1961

Soil, red	16	16
Clay, yellow, and boulders	6	22
Clay, gray, and "hard" (cemented?) sand	28	50
Sand and gravel, loose	4	54

Casing: 6-in. to 53 ft; unperforated.

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

11/1W-25K1. V. H. Jensen. Altitude 610 ft. Drilled by Willamette Irrigation & Equipment, 1957

Materials	Thickness (feet)	Depth (feet)
Soil, clay, and gravel	12	12
Sand, brown, cemented	5	17
Shale	8	25
Gravel, cemented	5	30
Shale	4	34
Sand, cemented	4	38
Sand and gravel, cemented	12	50
Shale	7	57
Sand and gravel, cemented	7	64
Gravel, cemented	4	68
Shale	10	78
Conglomerate, white	4	82
"Glacier marble"	3	85

Casing: 5-in. to 82 ft; unperforated.

11/1W-27P1. Salt Lake Dist. School. Altitude 374 ft. Drilled by H. E. Evans, prior to 1928

Soil and clay	4	4
Boulder and clay, slightly water-bearing	81	85
"Rock," soft, water-bearing	1	86

Casing: 4-in. to 85 ft; unperforated.

11/1W-29M1. Bingenheimer. Altitude 355 ft. Drilled by H. E. Evans, prior to 1928

Soil	3	3
Clay, soft, and 4-in.-diameter boulders	17	20
"Surface water" (infiltration)	4	24
Boulder, clay, and "hardpan" (cemented gravel?), very hard	15	39
Clay, blue, alternating hard and swelling layers	101	140
Clay, red	6	146
Clay, blue	30	176
Boulders and coarse gravel; no sand	17	193

Casing: 4-in. to 78 ft; unperforated.

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

11/1W-29R1. Ivan Runkle. Altitude 350 ft. Drilled by Willamette Irrigation & Equipment, 1958

Materials	Thickness (feet)	Depth (feet)
Soil	1	1
Clay, white	20	21
Clay, yellow	22	43
Shale, yellow	11	54
Shale, brown	15	69
Sandstone, black, hard	1	70

Casing: 6-in. to 70 ft; unperforated.

11/2W-2M1. R. F. Kleinschmit. Altitude 270 ft. Drilled by Merle Warren Well Drilling, 1965

Clay	13	13
Boulders	3	16
Gravel	7	23
Clay and gravel	3	26
Clay	4	30

Casing: 8-in. to 25 ft; perforated 7-25 ft.

11/2W-3C1. Sam Looney. Altitude 265 ft. Drilled by Klaus & Beagley Drilling Co., 1957

Former well	33	33
Sand and gravel, water-bearing	8	41
Shale, brown, soft	7	48

Casing: 10-in. to 41 ft; perforated 31-41 ft.

11/2W-3D1. Sam Looney. Altitude 260 ft. Drilled by Klaus & Beagley Drilling Co., 1957

Soil	10	10
Clay	20	30
Gravel, cemented	8	38
Gravel, fine	32	70
Gravel, coarse, and boulders	37	107

Casing: 10-in. to 107 ft; perforated 0-107 ft.

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

11/2W-4P1. Arthur Schmidt. Altitude 255 ft. Drilled by Valley Well Drillers, 1965

Materials	Thickness (feet)	Depth (feet)
Soil	4	4
Boulders, large, and sand	14	18
Sand, coarse, and gravel, water-bearing	12	30

Casing: 10-in. to 30 ft; perforated 21-29 ft.

11/2W-5C6. K. B. Folsom. Altitude 251 ft. Drilled by Ace Drilling Co., 1961

Clay	7	7
Gravel, "mixed"	9	16
Clay, yellow, sandy	1	17
"Rock," medium-sized	5	22
"Rock," mixed with clay	½	22½

Casing: 10-in. to 21½ ft; perforated 16-21 ft.

11/2W-5P1. George Dwyer. Altitude 260 ft. Drilled by Pyle & Salisbury, 1966

Soil	5	5
Gravel, cemented	23	28
Sand and gravel	4	32
Sand and clay, brown	3	35
Sand and gravel, brown	13	48
Sand and gravel, blue	4	52
Sand and gravel, black	53	105
"Limestone"	13	118
Mud seam, blue	4	122
"Limestone"	4	126

Casing: 8-in. to 99½ ft; unperforated.

11/2W-6B1. G. C. Scheler. Altitude 249 ft. Drilled by Merle Warren Well Drilling, 1956

Soil	4	4
Clay, sandy	14	18

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

11/2W-6B1--Continued

Materials	Thickness (feet)	Depth (feet)
Gravel, rounded, medium-sized	3	21
Gravel, tightly packed	49	70
Gravel, water-bearing	4	74

Casing: 8-in. to 74 ft; perforated 62-74 ft.

11/2W-7H1. Wilson Young. Altitude 265 ft. Drilled (driller unknown), 1952

Loam	18	18
Gravel, water-bearing	4	22
Clay, sandy	9	31
Gravel, water-bearing	69	100
Clay	-	100+

Casing: 8-in. to 80 ft; perforated 20-80 ft.

11/2W-8B2. R. J. Brevig. Altitude 260 ft. Drilled by Klaus & Beagley Drilling Co., 1958

Soil	8	8
Gravel, with yellow clay	9	17
Gravel, cemented	7	24
Boulder, large, and clay	3	27
Gravel, large	5	32

Casing: 6-in. to 32 ft; perforated 25-31 ft.

11/2W-8E1. R. L. Jackson. Altitude 265 ft. Drilled by Shafer & Gellatly, 1952

Clay	4	4
Gravel, brown, and sand	27	31
Clay, sandy	14	45
Clay and gravel	15	60
Gravel and clay	10	70
Gravel and sand	10	80
Gravel and clay	10	90

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

11/2W-8E1--Continued

Materials	Thickness (feet)	Depth (feet)
"Hardpan"	16	106
Sand and clay	9	115
Clay	3	118

Casing: 10-in. to 90 ft; perforated 20-31 ft, 45-90 ft.

11/2W-9E1. Arvid Backman. Altitude 265 ft. Drilled by West Well Drilling, 1957

Sand and gravel, unconsolidated, rusty, and containing much silt	25	25
Gravel, cemented, with layers of tan clay	11	36
Sand and gravel, unconsolidated, rusty, and silty	4	40
Gravel, tan, cemented	2	42
Clay, blue	3	45
Sand and gravel, black, lightly cemented with blue clay, water-bearing	21	66
Clay, blue	2	68
Gravel, cemented with blue clay	3	71
Clay, blue	23	94
Sand and gravel, black, unconsolidated, water-bearing	3	97
Sand, black, cemented with blue clay	7	104
Sand and gravel, black, unconsolidated, water-bearing	3	107
Clay, brown	13	120

Casing: 10-in. to 108 ft; perforated 50-70 ft, 92-108 ft.

11/2W-9H1. Clariol Hayes. Altitude 271 ft. Drilled by Fred Meloum, 1957

Loam, yellow	8	8
Gravel and yellow clay	12	20
Gravel	4	24

Casing: 8-in. to 24 ft; perforated 14-24 ft.

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

11/2W-10C1. Lee Bender. Altitude 272 ft. Drilled by Merle Warren Well Drilling, 1964

Materials	Thickness (feet)	Depth (feet)
Loam, sandy	9	9
Sand and gravel	17	26
Gravel, coarse	12	38
Clay, blue	1	39

Casing: 10-in. to 36 ft; perforated 25-36 ft.

11/2W-11E2. J. B. Henderson. Altitude 275 ft. Drilled by Long Drilling, 1964

Soil	10	10
Soil and small gravel	13	23
Gravel, small to medium	4	27
Boulders and medium gravel	5	32
Sandstone, soft, and "mixed" gravel	2	34
Gravel, small	1	35

Casing: 6-in. to 35 ft; perforated 25-35 ft.

11/2W-14B2. Allen Wollam. Altitude 285 ft. Drilled by Pyle & Salisbury, 1965

Soil	18	18
Gravel and clay	14	32
Clay, blue	13	45

Casing: 10-in. to 36 ft; perforated 28-35 ft.

11/2W-14J1. Clifford Whisenhunt. Altitude 285 ft. Drilled by Pete Tolmasoff Well Drilling, 1965

Loam, sandy	7	7
Sand and soft blue clay	6	13
Clay and gravel, "firm"	4	17
Gravel, cemented	2	19
Gravel, small, loose, water-bearing	1	20
Gravel, coarse, rounded, water-bearing	1	21

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

11/2W-14J1--Continued

Materials	Thickness (feet)	Depth (feet)
Gravel, small, and red silt	1	22
Gravel and clay, gray, "firm"	1	23

Casing: 10-in. to 20½ ft; perforated 18-20½ ft.

11/2W-15K1. Swander Bros. Altitude 285 ft. Drilled by Ace Drilling Co., 1952

Sand	5	5
Clay and sand	7	12
Gravel, water-bearing	10	22

Casing: 8-in. to 22 ft; perforated 16-22 ft.

11/2W-16D1. Weber Doughton. Altitude 272 ft. Drilled by Valley Well Drilling, 1959

Soil, dark-brown	5	5
Sand and clay, light-brown	9	14
Sand, black, "heavy" (coarse?)	5	19
Clay, light-brown, soft	5	24
Sand and gravel, small	1	25
Gravel, large, rounded	2	27
Sandstone, light-brown	-	27

Casing: 6-in. to 25 ft; unperforated.

11/2W-16R1. R. K. Wilson. Altitude 276 ft. Drilled by Ace Drilling Co., 1960

Soil, "heavy"	1	1
Gravel and clay	7	8
Gravel and sand	14	22
Gravel and clay	2	24

Casing: 10-in. to unknown depth; perforated 17-23 ft.

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

11/2W-17R1. F. V. Kropf. Altitude 280 ft. Drilled (driller unknown), 1951

Materials	Thickness (feet)	Depth (feet)
Clay	6	6
"Hardpan" and gravel	17	23
Gravel, loose	2	25
Gravel	6	31
Clay, brown	10	41
Gravel and sand	15	56
Clay, gray	5	61
Gravel and sand	34	95
Wood, rotten, and clay	5	100

Casing: 8-in. to 97 ft; perforated 20-25 ft, 26-31 ft, 41-56 ft, 61-94 ft.

11/2W-20J1. Spicer School. Altitude 287 ft. Driven by W. A. Slate, prior to 1928

Soil, clayey and gravelly	28	28
Gravel, very hard, cemented	8	36
Gravel, water-bearing	4	40
"Hardpan"	3	43
Gravel, loose, streaks of "hardpan," highly water-bearing	27	70
"Hardpan," clayey	10	80
Gravel, water-bearing	-	80

Casing: 1¼-in. to 70 ft; unperforated.

11/2W-21H2. E. N. Dalby. Altitude 281 ft. Drilled by W. M. Slate, 1957

Soil	1	1
Clay, brown, sandy	4	5
Sand and gravel, cemented with brown clay	7	12
Gravel, brown, large, water-bearing	9	21

Casing: 6-in. to 21 ft; perforated 12½-21 ft.

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

11/2W-22N1. Santiam Valley Nurseries. Altitude 292 ft. Drilled by Ace Drilling Co., 1959

Materials	Thickness (feet)	Depth (feet)
Loam, "heavy"	1	1
Sand and gravel	13	14
Clay, yellow, and sand and medium-sized gravel	3	17
Gravel, with a little sand	4	21
Sand and small gravel	6	27

Casing: 8-in. to 27 ft; perforated 21-26 ft.

11/2W-23P2. Max Burkhart. Altitude 300 ft. Drilled by West Well Drilling, 1958

Soil and sandy clay	5	5
Sand and small gravel, unconsolidated	12	17
Sand and gravel to boulder size, unconsolidated	7	24
Sand and gravel, cemented	2	26
Clay, blue, or soft shale	2	28

Casing: 8-in. to 26 ft; perforated 15-26 ft.

11/2W-26C6. Gary Shanks. Altitude 305 ft. Drilled by Ace Drilling Co., 1958

Soil and sand	5	5
Gravel, black, large	10	15
Gravel, "mixed"	18	23

Casing: 10-in. to 22½ ft; perforated 18-22 ft.

11/2W-26F2. F. J. Luscher. Altitude 300 ft. Drilled by R. C. Gellatly, 1964

Loam	2	2
Gravel, sand, and clay	16	18
Gravel, coarse, and sand	5	23

Casing: 10-in. to 23 ft; perforated 18-23 ft.

11/2W-26F3. F. J. Luscher. Altitude 300 ft. Drilled by R. C. Gellatly & R. S. Witham, Well Drilling, 1964

Soil	5	5
Clay, dark-brown	7	12
Gravel and clay	11	23
Clay, gray	11	34

Casing: 10-ft. to unknown depth; abandoned.

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

11/2W-26R1. L. C. Donovan. Altitude 312 ft. Drilled by West Well Drilling, 1957

Materials	Thickness (feet)	Depth (feet)
Silt, sandy	5	5
Sand, unconsolidated, and small to coarse gravel	15	20
Sand, consolidated, and some yellow clay, becoming blue at bottom	5	25

Casing: 8-in. to 25 ft; perforated 13-25 ft.

11/2W-27A1. Ivan Ayers. Altitude 300 ft. Drilled by Willamette Irrigation & Equipment, 1960

Gravel	25	25
Sand, black	5	30

Casing: 8-in. to 25 ft; perforated 9½-25 ft.

11/2W-29H1. Neal Hollingsworth. Altitude 290 ft. Drilled by Art Clinton Well Drilling Co., 1959

Soil	2	2
Clay, brown	6	8
Boulders	32	40
Gravel and clay	50	90
Clay, blue	55	145

Casing: 8-in. to 93 ft; perforated 50-87 ft.

11/2W-35D1. R. F. Meyer. Altitude 312 ft. Drilled by Ace Drilling Co., 1961

Clay	4	4
Sand, gravel, and clay	6	10
Gravel, very large, with some sand	14	24
Gravel, large, and clay	3	27

Casing: 12-in. to 26 ft; perforated 20-26 ft.

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

11/2W-35G2. Alfred Nofziger. Altitude 313 ft. Drilled by Bob's Well Drilling, 1962

Materials	Thickness (feet)	Depth (feet)
Soil	1	1
Sand and gravel	16	17
Gravel	3	20

Casing: 6-in. to 20 ft; perforated 18-20 ft.

11/2W-36E1. L. C. Donovan. Altitude 318 ft. Drilled by West Well Drilling, 1960

Clay, brown, "heavy" at top to sandy near gravel bed	9	9
Sand, brown, and gravel and silt of all colors, unconsolidated, water-bearing	16	25
Gravel, cemented, and tan clay	2	27
Clay, blue	3	30

Casing: 8-in. to 27 ft; perforated 15-27 ft.

11/3W-1D1. Russell Lines. Altitude 235 ft. Drilled by Merle Warren Well Drilling, 1963

Soil	3	3
Clay	5	8
Sand and gravel	13	21
Clay, yellow	9	30

Casing: 10-in. to 21 ft; perforated 11-21 ft.

11/3W-2C1. C. L. Koehler. Altitude 235 ft. Drilled by H & H Drilling, 1961

Soil	6	6
Clay	6	12
Sand and gravel	12	24
Sandstone, brown, fine	9	33
Claystone, gray, hard	32	65

Casing: 6-in. to 27 ft; unperforated.

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

11/3W-3A1. William Conrady. Altitude 228 ft. Drilled by Merle Warren Well Drilling, 1965

Materials	Thickness (feet)	Depth (feet)
Soil	2	2
Clay	6	8
Gravel	12	20
Sand and gravel	17	37
Clay	3	40

Casing: 6-in. to 37 ft; perforated 31-37 ft.

11/3W-4G1. A. M. Ropp. Altitude 215 ft. Drilled by West Well Drilling, 1961

Soil, brown clay, and small gravel	5	5
Sand and gravel, unconsolidated, with brown silt and a few thin layers of clay	30	35
Sand and gravel, cemented with brown clay	7	42
Clay, tan, sandy	15½	57½
Gravel, clean, and sand, loose, water-bearing	1½	59

Casing: 6-in. to 59 ft; unperforated.

11/3W-5J2. D. E. Nebergall Meat Co. Altitude 200 ft. Drilled (driller unknown), 1936

Clay	10	10
Clay and gravel	32	42
Sand and gravel	28	70
Shale	16	86
Sand, black	10	96

Casing: 8-in. to 96 ft; perforated 78-96 ft.

11/3W-8D1. Mountain States Power Co. Altitude 225 ft. Drilled by W. A. Slate, 1929

Soil, changing to clay	17	17
Gravel, caving with lots of clay	11	28
Gravel	14	42
Sand, black	1	43

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

11/3W-8D1--Continued

Materials	Thickness (feet)	Depth (feet)
Clay, black	3	46
Gravel	1	47
Clay, blue	3	50

Casing: 8-in. to 46 ft; perforated 28-41 ft.

11/3W-8K1. M. L. Cooley. Altitude 200 ft. Drilled by C. A. Shafer, 1949

Clay	13	13
Conglomerate	6	19
Gravel, water-bearing	4	23
Gravel and clay	26	49
Gravel, water-bearing	6	55
Clay, blue	10	65
Gravel and sand,blue, with clay streaks, water-bearing	10	75
Clay, sandy	14	89

Casing: 8-in. to 75 ft; perforated at unknown depth.

11/3W-8N1. Allan Steen. Altitude 227 ft. Drilled by Frank Wagy Well Drilling, 1964

Soil, brown, loose	3	3
Clay, gray	22	25
Sand, medium-fine, water-bearing	10	35
Gravel, medium, and coarse sand, black	22½	57½

Casing: 6-in. to 56 ft; perforated 46-56 ft.

11/3W-9G1. Eugene Spear. Altitude 223 ft. Drilled by Ace Drilling Co., 1961

Clay and gravel	10	10
Gravel, medium-sized	24	34
Clay, blue	10	44
Sand and gravel	11	55
Clay, dark	10	65
Sand and gravel, black	5	70

Casing: 6-in. to 70 ft; perforated 66-69 ft.

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

11/3W-9L1. Oregon Truck Leasing. Altitude 228 ft. Drilled by Ace Drilling Co., 1963

Materials	Thickness (feet)	Depth (feet)
Clay	16	16
Sand, with gravel	4	20
Gravel, black, small	18	38
Gravel and clay, dark-brown	19	57
Clay, dark-brown	23	80
Clay, black, sandy	7	87
Gravel and fine sand, slightly water-bearing	14	101
Clay, black, firm	10	111
Gravel, black, medium-sized, clean	4	115

Casing: 8-in. to 103 ft; unperforated.

11/3W-10R1. L. A. Kropf. Altitude 240 ft. Drilled by Klaus & Beagley Drilling Co., 1957

Loam, black, silty	6	6
Clay, yellow	10	16
Gravel, dark, cemented	20	36
Shale, green	16	52
Sand, black, fine, silty	22	74
Shale, blue, soft	8	82

Casing: 8-in. to 72 ft; perforated 44-72 ft.

11/3W-13A1. L. A. Nelson. Altitude 255 ft. Drilled (driller unknown), 1953

Soil	2	2
Clay	6	8
Clay and gravel	16	24
Sand and gravel	2	26
Clay and shale	24	50
Clay, sandy	10	60
Clay and gravel	10	70
Sand and gravel	16	86
"Sandrock" (sandy shale?)	6½	92½

Casing: 6-in. to 92 ft; perforated 83-92 ft.

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

11/3W-14F1. W. W. Hardin. Altitude 255 ft. Drilled by Merle Warren Well Drilling, 1963

Materials	Thickness (feet)	Depth (feet)
Soil	5	5
Clay	8	13
Gravel	10	23
Gravel, cemented	8	31
Gravel, red	4	35
Sand and gravel	5	40

Casing: 6-in. to 38 ft; perforated 30-38 ft.

11/3W-15C1. Sam Kennel. Altitude 243 ft. Drilled (driller unknown), 1952

Clay, light-colored	14	14
Gravel and clay, light-colored	19	33
Sand, gravel, and clay, light-colored	16	49
Clay, dark	31	80
Sand and clay, dark	15	95
Clay, dark	28	123
Sand, dark	7	130
Gravel, dark	2	132
Clay and gravel, dark	10	142

Casing: 8-in. to 132 ft; perforated 75-132 ft.

11/3W-16Q1. Grand Prairie School. Altitude 245 ft. Drilled by Merle Warren Well Drilling, 1959

Soil	3	3
Clay, yellow	13	16
Clay, blue	4	20
Gravel, dirty	5	25
Gravel, coarse	23	48
Sand, brown, and gravel	6	54
Clay, blue	18	72
Sand, black, and gravel	10	82
Clay, blue	4	86

Casing: 8-in. to 80 ft; unperforated.

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

11/3W-16Q2. Dick Miller. Altitude 245 ft. Drilled by Hamilton Drilling Co., 1960

Materials	Thickness (feet)	Depth (feet)
Soil, "heavy," and clay	18	18
Gravel, large, and clay	10	28
Sand and gravel	2	30
Clay and gravel	21	51
Sand and gravel, water-bearing (small yield)	2	53
Clay, dark layer	4	57
Clay and gravel	9	66
Gravel, black, small, and sand, water-bearing	7	73

Casing: 6-in. to 72 ft; perforated 57-58 ft, 66-71 ft.

11/3W-17F2. J. T. Anderson. Altitude 226 ft. Drilled by Hamilton Drilling Co., 1960

Clay	29	29
Sand and gravel	37	66
Clay, blue	4	70

Casing: 6-in. to 66 ft; perforated 32-38 ft, 58-64 ft.

11/3W-18K1. G. A. Palmer. Altitude 225 ft. Drilled by Valley Well Drillers, 1961

Soil, dark-brown	2	2
Clay, dark-yellow	13	15
Clay, dark-brown, and fine sand	3	18
Clay, blue, and boulders	4	22
Clay, brown, and fine sand and gravel	16	38
Clay, blue, and medium-sized sand and gravel	11	49
Clay, blue, and fine sand and gravel	5	54
Sand, black, fine, water-bearing	6	60
Clay, dark-gray, and fine sand	3	63

Casing: 6-in. to 60 ft; unknown finish.

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

11/3W-20L1. Ted Wealand. Altitude 230 ft. Drilled by Ace Drilling Co., 1959

Materials	Thickness (feet)	Depth (feet)
Soil and clay	22	22
Clay, brown, and gravel	13	35
Sand, dark-brown, and gravel	20	55
Sand, black, and gravel	15	70

Casing: 6-in. to unknown depth; perforated at unknown depth.

11/3W-25P1. Inez G. Gilbert. Altitude 278 ft. Drilled by Ace Drilling Co., 1960

Soil and clay	15	15
Gravel and clay	10	25
Gravel and sand	13	38

Casing: 6-in. to 38 ft; unknown finish.

11/3W-26A1. Leonard Roth. Altitude 272 ft. Drilled (driller unknown), 1952

Clay, light-colored	11	11
Clay and gravel, light-colored	31	42
Sand and clay	15	57
Clay, dark	17	74
Gravel, dark	16	90
Clay and gravel, dark	46	136
Sand and clay, dark	8	144
Gravel and clay, dark	7	151

Casing: 8-in. to 151 ft; perforated 74-90 ft, 112-120 ft, 132-151 ft.

11/3W-27L1. Norman Walker. Altitude 255 ft. Drilled by Merle Warren Well Drilling, 1965

Soil	3	3
Clay, yellow	13	16
Clay and gravel	22	38
Boulders	4	42
Sand and gravel	11	53

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

11/3W-27L1--Continued

Materials	Thickness (feet)	Depth (feet)
Clay, sandy	15	68
Clay, blue	4	72
Clay, sandy	13	85
Sand, black, and gravel	10	95

Casing: 6-in. to 94 ft; perforated at unknown depth.

11/3W-28C1. Merlin Foster. Altitude 245 ft. Drilled by Frank Wagy Well Drilling, 1965

Soil, brown	2	2
Dirt, brown	10	12
Dirt, with some "rock" (cemented gravel?)	7	19
Gravel, rounded, medium-sized, and coarse black sand with some "rock" (cemented gravel?)	19	38
Sand, blue, and rounded medium-sized gravel	28	66

Casing: 8-in. to 64 ft; perforated 24-44 ft, 54-64 ft.

11/3W-29J1. W. A. Graupmann. Altitude 245 ft. Drilled (driller unknown), 1945 and 1951

Soil, "heavy," and brown clay	26	26
Gravel, small, and yellow clay	17	43
Gravel and brown sand, water-bearing (small yield)	8	51
Gravel and clay, yellow	11	62
Sand, black	10	72

Casing: 8-in. to 72 ft; perforated 65-72 ft.

11/3W-32C1. H. W. Ehrlich. Altitude 243 ft. Drilled by R. C. Gellatly, 1952

Clay	16	16
"Hardpan" (cemented gravel?)	11	27
Clay	2	29
Gravel	7	36
Clay	5	41
"Hardpan" (cemented gravel?)	9	50
Gravel, loose	4	54

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

11/3W-32C1--Continued

Materials	Thickness (feet)	Depth (feet)
Gravel	11	65
Gravel and clay	20	85
Gravel, brown, and sand	5	90
Gravel and clay	14	104
Sand, black	4	108
Gravel, loose	14	122

Casing: 10-in. to 102 ft; perforated 27-29 ft, 35-39 ft, 55-59 ft, 99-102 ft.

11/3W-36D1. Philip Roth. Altitude 278 ft. Drilled (driller unknown), 1952

Clay, light-colored	10	10
Gravel and clay	45	55
Sand and gravel	12	67
Clay, dark	10	77
Gravel and clay	19	96
Clay	6	102
Gravel and clay	12	114
Gravel, "good" (water-bearing?)	5	119
Clay	16	135

Casing: 8-in. to 120½ ft; perforated 102½-120½ ft.

11/4W-1N1. Mountain States Power Co. Altitude 190 ft. Drilled by W. A. Slate, 1928

Soil	12	12
Gravel, with 2-in. sand layers, water-bearing	12	24
Clay or shale, black	11	35
Crevice(?), water-bearing	1	36
Clay or shale, black	10	46

Casing: None; unused.

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

11/4W-1R3. Albany Creamery Assoc. Altitude 210 ft. Drilled by A. M. Jannsen Drilling Co., prior to 1938

Materials	Thickness (feet)	Depth (feet)
Soil and clay	5	5
Sand, dry	18	23
Shale	102	125
Shale and a little gravel	5	130
Shale	80	210

Casing: 12-in. to unknown depth; unknown finish.

11/4W-11F1. Heyman-Campbell Farms. Altitude 190 ft. Drilled by Merle Warren Well Drilling, 1957

Soil	4	4
Sand	14	18
Gravel	18	36
Clay, blue	6	42

Casing: 10-in. to 37 ft; perforated 23-37 ft.

11/4W-12B1. Mountain States Power Co. Altitude 195 ft. Drilled by W. A. Slate, 1928

Soil	12	12
Gravel, water-bearing	12	24
"Rock" (cemented gravel?), harder than usual blue shale; some gravel enclosed, water-bearing at 38 ft	71	95

Casing: Pulled and abandoned.

11/4W-12F1. Riverside Cemetery Assoc. Altitude 225 ft. Drilled by W. M. Slate, 1957

Soil, gravelly	2	2
Gravel and sand, cemented with clay, water-bearing at 40 ft	39	41
Sandstone, brown, fractured	1	42

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

11/4W-12F1--Continued

Materials	Thickness (feet)	Depth (feet)
Sandstone, blue	8	50
Rock, blue, water-bearing at 52 ft, 92 ft, and 104 ft (last two give highest yields)	75	125

Casing: 8-in. to 43 ft; perforated 39-43 ft.

11/4W-12N1. Bonneville Power Admin. Altitude 215 ft. Drilled by A. M. Jannsen Drilling Co., 1949

Clay	24	24
Gravel	48	72
Shale, brown, with wood and bark	33	105
Shale, blue-gray	75	180
Shale, slate-colored	70	250

Casing: 6-in. to 92 ft; unperforated.

11/4W-13F1. Tom Jackson. Altitude 210 ft. Drilled by J. W. Beck Well Drilling, 1956

Soil	13	13
Gravel, cemented	15	28
Gravel	4	32
Clay, blue	8	40

Casing: 6-in. to 32 ft; unperforated; gravel pack 31-40 ft.

11/4W-13J2. Albany Frozen Food. Altitude 215 ft. Drilled by Valley Well Drillers, 1966

Soil	5	5
Clay, blue	15	20
Sand and gravel	52	72

Casing: 12-in. to 68 ft; perforated 43-68 ft.

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

11/4W-14A1. Mountain States Power Co. Altitude 200 ft. Drilled by W. A. Slate, 1929

Materials	Thickness (feet)	Depth (feet)
Soil, sandy	15	15
Gravel, fine, and sand, water-bearing	17	32
Shale, clayey, much wood 50-70 ft; no water	72	104

Casing: Unknown diameter and depth.

11/4W-15J1. Ed Roberts. Altitude 215 ft. Drilled by Merle Warren Well Drilling, 1966

Soil	4	4
Clay, brown	11	15
Clay, blue	15	30
Clay and gravel	18	48
Sand and gravel, black	10	58

Casing: 8-in. to 58 ft; perforated 46-57 ft.

11/4W-23K1. Northwest Natural Gas Co. Altitude 205 ft. Drilled by A. M. Jannsen Drilling Co., 1960

Clay, brown	27	27
Gravel, cemented	11	38
Gravel, loose, water-bearing	5	43
Gravel, gray, cemented	4	47
Clay, blue, sticky	49	96
Clay, brown, with wood	15	111
Clay, brown, mixed with blue clay	17	128
Clay, blue	28	156
Shale	94	250

Casing: 10-in. to 211 ft; unperforated.

11/4W-25A1. Harold Shelton. Altitude 225 ft. Drilled by Valley Well Drillers, 1964

Soil, dark-brown	3	3
Clay, brown	18	21
Clay, blue, and fine sand	14	35

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

11/4W-25A1--Continued

Materials	Thickness (feet)	Depth (feet)
Clay, brown, medium sand, and gravel, "packed" -------	17	52
Sand, fine, and gravel ----------	3	55
Sand, medium, and gravel ----------	5	60

Casing: 6-in. to 60 ft; perforated 55-59 ft.

11/4W-34L1. Van Waters and Rogers. Altitude 220 ft. Drilled by Long Drilling Co., 1966

Soil ----------	2	2
Clay, tan ----------	26	28
Gravel, small, sandy ----------	11	39
Gravel, medium ----------	10	49
Clay, sandy ----------	2	51

Casing: 6-in. to 50 ft; perforated 40-50 ft.

11/4W-35N1. O. H. Ehrlich. Altitude 225 ft. Driven by W. A. Slate, 1916

Former dug well ----------	13	13
"Hardpan" ----------	18	31
Gravel, water-bearing ----------	-	31

Casing: 1½-in. to 30 ft; unknown finish.

11/1-8L1. C. R. Duren. Altitude 555 ft. Drilled by Willamette Irrigation & Equipment, 1963

Soil ----------	1	1
Clay ----------	16	17
Rock, blue, hard (basalt?) ----------	50	67
Crevice, with clay ----------	18	85

Casing: 6-in. to 18 ft; unperforated.

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

11/1-29D1. Lacomb Brangus Farm. Altitude 800 ft. Drilled by Pyle & Salisbury, 1964

Materials	Thickness (feet)	Depth (feet)
Clay, red	40	40
Clay and gravel	10	50
Rock, brown, "broken"	35	85
Rock, brown	35	120
"Limestone," black, "broken," hard	20	140
"Limestone," gray, sandy	40	180
Shale, black; break	10	190
"Limestone," gray, sandy	60	250

Casing: 6-in. to 91 ft; unperforated.

11/1-29N1. Fennie Cooper. Altitude 700 ft. Drilled by H & H Drilling, 1965

Soil and red clay	27	27
Sand and gravel, cemented	15	42
Clay, blue	5	47

Casing: 6-in. to 40 ft; unperforated.

12/1W-4P1. W. R. Gage. Altitude 440 ft. Drilled by H & H Drilling, 1965

Soil and brown clay	6	6
Rock, blue	1½	7½
Claystone, blue, sandy	17½	25
Claystone, blue	10	35
Conglomerate, blue	78	113
Claystone, dark-brown	35	148

Casing: 6-in. to 20 ft; unperforated.

12/1W-11H1. Allan Todd. Altitude 490 ft. Drilled by H & H Drilling, 1965

Soil and brown clay	30	30
Rock, brown	28	58
Claystone, blue	12	70
Conglomerate, blue	20	90
Sandstone, white	2	92

Casing: 6-in. to 35 ft; unperforated.

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

12/1W-19L1. A. G. Bazant. Altitude 375 ft. Drilled by Carl Clark, 1956

Materials	Thickness (feet)	Depth (feet)
Loam, black	6	6
Gravel	24	30
"Rock," soft	2	32
Gravel	24	56

Casing: 6-in. to unknown depth; unperforated.

12/1W-21J1. Gary Kieper. Altitude 405 ft. Drilled by H & H Drilling, 1964

Soil and clay	3	3
Clay, brown	67	70
Clay, red and blue	10	80
Sandstone, dark-brown, soft	5	85
Sandstone, brown, crumbly	12	97
Sandstone, brown	20	117
Clay and sand, blue	3	120
Sandstone, brown	5	125
Clay, black	25	150

Casing: 6-in. to 98 ft; unperforated.

12/1W-26B1. J. K. Lott. Altitude 435 ft. Drilled by W. R. Davis, 1958

Soil	6	6
Dirt and cobbles	7	13
Clay, yellow	5	18
Clay, white	7	25
"Soapstone"	3	28
Clay, blue	5	33
"Soapstone"	5	38
Clay, blue	37	75

Casing: 5-in. to 75 ft; perforated 24-36 ft.

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

12/1W-28N2. Lyle Bowers. Altitude 410 ft. Drilled by Willamette Irrigation & Equipment, 1964

Materials	Thickness (feet)	Depth (feet)
Soil	9	9
Sand, coarse	5	14
Sand and gravel	5	19
Gravel	-	19+

Casing: 8-in. to 19 ft; unperforated.

12/1W-29N1. Pineway Golf Course, Inc. Altitude 410 ft. Drilled by Pyle & Salisbury, 1957

Sand and gravel	16	16
Sand and boulders, cemented	24	40
Sand and clay	40	80
Sandstone, dry	20	100
Sand, soft, and burnt wood, water-bearing	4	104
Rock, black, sandy	20	124
Rock, "broken," hard	7	131
Basalt, hard	5	136
Basalt, "broken," water-bearing	15	151
Basalt	50	201

Casing: 8-in. to 131 ft; perforated 80-120 ft.

12/1W-30R1. Pineway Golf Course, Inc. Altitude 435 ft. Drilled by J. A. Rucker, 1957

Soil	14	14
Rock, "broken"	46	60
Shale, green	10	70
Rock, blue, soft	147	217
Rock, black, hard	2	219
Rock, red; break (weathered basalt)	10	229
Basalt, hard	144	373
Shale, blue, muddy	69	442

Casing: 8-in. to 75½ ft; unperforated.

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

12/2W-2C1. Kenneth Watters. Altitude 335 ft. Drilled by Ace Drilling Co., 1957

Materials	Thickness (feet)	Depth (feet)
Soil and clay, sandy	11	11
Clay, brown, and gravel	14	25
Gravel, blue	11	36
Clay, dark-brown, and gravel	2	38
Clay, dark-brown	32	70
Clay, blue	11	81
Sand and gravel, black	19	100

Casing: 10-in. to 38 ft; perforated 20-23 ft, 30-37 ft.

12/2W-2H1. E. R. Liggett. Altitude 325 ft. Drilled by Pyle & Salisbury, 1963

Soil	5	5
Clay and gravel	10	15
Sand and gravel, cemented	9	24
Clay and sand	6	30
Shale, black, hard	4	34
Sand, black; break	2	36
Shale, black	5	41

Casing: 10-in. to 30 ft; unperforated.

12/2W-3A1. R. B. Alley. Altitude 330 ft. Drilled by Ace Drilling Co., 1958

Soil, "heavy"	6	6
Sand and clay, brown	5	11
Boulder, black, with clay	6	17
Boulder and sand	3	20
Gravel, clean, with sand layers	13	33
Boulder, black, with clay	3	36
Shale, black, "rotten," and sand	20	56
Sand and gravel, black	5	61
Clay, dark	4	65

Casing: 10-in. to 36 ft; perforated 27-35 ft.

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

12/2W-10A1. Roy Walker. Altitude 337 ft. Driven by W. A. Slate, 1928

Materials	Thickness (feet)	Depth (feet)
Soil, sandy	20	20
Gravel, loose, with some boulders	10	30
"Hardpan" (cemented gravel and boulders?)	6	36
Clay, black, hard	22	58
Gravel, marble-sized, water-bearing	3	61

Casing: 1¼-in. to 43 ft; unperforated.

12/2W-11L1. Sol Lindley. Altitude 340 ft. Drilled by W. A. Slate, prior to 1928

Loam, sandy	8	8
Gravel and sand, water-bearing	28	36
Clay, yellow, with enclosed boulders, ashy, no water	46	82
Rock, hard	-	82+

Casing: 4-in. to 36 ft; unknown finish.

12/2W-12J1. A. E. Grobe. Altitude 455 ft. Drilled by H & H Drilling, 1959

Basalt, with crevices	14	14
Basalt, solid, hard	75	89
Clay and shale, blue	12	101
Sand and gravel	9	110
Sandstone, blue	16	126

Casing: 6-in. to 19 ft; unperforated.

12/2W-14E1. McPherson Lumber Co. Altitude 345 ft. Drilled by Louis Crispin, 1960

Soil	9	9
Gravel, cemented	16	25
Clay, blue, and gravel	14	39
Sand and gravel, brown	1	40

Casing: 8-in. to 40 ft; perforated 0-40 ft.

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

12/2W-15B1. J. H. Irvine. Altitude 340 ft. Drilled by Pyle & Salisbury, 1964

Materials	Thickness (feet)	Depth (feet)
Boulders, sand, and clay	15	15
Sand and gravel, cemented	15	30
Sand, water begins at 30 ft	5	35
Sand and gravel	23	58
Sand, brown	4	62

Casing: 6-in. to 58 ft; unperforated.

12/2W-16E1. Otta. Altitude 325 ft. Drilled by Willamette Irrigation & Equipment, 1959

Soil	4	4
Gravel, cemented	30	34
Sand and gravel	7	41
Gravel, cemented	7	48
Sand and gravel, loose	3	51
Sand, cemented	9	60
Sand and gravel, loose	8	68

Casing: 8-in. to 68 ft; perforated 35-68 ft.

12/2W-18C1. Henry DeManette. Altitude 310 ft. Drilled by W. E. Pyle Drilling Co., 1958

Soil, sand, and clay	20	20
Gravel and clay	22	42
Shale, blue, and gravel	40	82
Sand and mud, water-bearing	4	86
Rock, "broken," water-bearing	21	107
"Soapstone"	17	124
Shale, green	25	149
Rock, blue	26	175

Casing: 10-in. to 92 ft; unperforated.

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

12/2W-22F1. L. A. Muller. Altitude 355 ft. Drilled by Bob's Well Drilling, 1964

Materials	Thickness (feet)	Depth (feet)
Soil, black	2	2
Clay, yellow	3	5
Clay, yellow, and sand, hard	15	20
Clay, yellow	4	24
Clay, blue	18	42
Clay, yellow, and sand, hard	20	62
Clay, blue, and sand, hard	6	68
Sand and gravel, black	9	77
Gravel, black, loose	8	85
Gravel, black, "hard" (cemented?)	10	95

Casing: 6-in. to 84 ft; perforated 62-83 ft.

12/2W-23B1. Cascade Plywood Corp. Altitude 360 ft. Drilled by A & H Drilling Co., 1957

Soil	1	1
Gravel	13	14
Soil, sandy	14	28
Sand	3	31
Sand and fine gravel	47	78
Sand	4	82
Sand and fine gravel	20	102
Sand	2	104
Sand and fine gravel	30	134
Rock, "broken," and black sand	6	140
Shale, blue	5	145
Sand and fine gravel	26	171

Casing: 6-in. to 171 ft; unknown finish.

12/2W-23B2. U.S. Plywood Corp. Altitude 360 ft. Drilled by Willamette Irrigation & Equipment Co., 1963

Soil	15	15
Sand, large boulders, and yellow clay	115	130
Sand and gravel	6	136
Clay, blue, and sand and gravel	74	210
Sandstone, hard	48	258
Lava	2	260

Casing: 8-in. to 210 ft; unperforated; unused because of salinity.

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

12/2W-24H1. C. G. Rogers. Altitude 360 ft. Drilled by Pyle & Salisbury, 1959

Materials	Thickness (feet)	Depth (feet)
Soil	6	6
Gravel, cemented	15	21
Sand, water-bearing (6 gpm)	3	24
Clay, sandy	32	56
Sand, brown, water-bearing (40 gpm)	5	61

Casing: 6-in. to 60 ft; unperforated.

12/2W-25G1. E. H. Eilers. Altitude 395 ft. Drilled by Willamette Irrigation & Equipment, 1958

Soil	1	1
Clay, yellow	4	5
Boulders, cemented with "light"(-colored?) clay	14	19
Gravel	3	22
Shale, blue-black, hard	16	38
Shale, "broken," water-bearing	4	42

Casing: 6-in. to 29 ft; unperforated.

12/2W-27K1. J. W. Miller. Altitude 450 ft. Drilled by Bob's Well Drilling, 1962

Soil, black	2	2
Clay, yellow	16	18
Clay, white	10	28
Clay, yellow	36	64
Clay, blue	6	70
"Stone," blue	30	100
Sand, black, hard, water-bearing	27	127
Clay, blue	2	129

Casing: 6-in. to 70 ft; unperforated.

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

12/3W-4E1. T. L. Kuhns Co. Altitude 252 ft. Drilled by Duffield Bros., 1966

Materials	Thickness (feet)	Depth (feet)
Soil, clayey	4	4
Clay, yellow	15	19
Sand, gravel, and clay, brown	19	38
Sand, brown	10	48
Sand, gravel, and clay, brown	15	63
Clay, brown, sandy	11	74
Boulders and large gravel with clay, brown	11	85
Clay, blue	18	103
Sand and gravel, black	5	108

Casing: 6-in. to 108 ft; perforated 103-105 ft.

12/3W-5B1. H. J. Clement. Altitude 248 ft. Drilled by Merle Warren Well Drilling, 1966

Soil	3	3
Clay	12	15
Clay and gravel	7	22
Boulders	4	26
Clay and gravel	19	45
Sand and gravel, brown	10	55
Clay and gravel	20	75
Sand and gravel, brown	15	90
Clay, brown	2	92
Clay, blue	19	111

Casing: 8-in. to 94 ft; perforated 81-92 ft.

12/3W-6E1. Woodward, Clyde, Sherard, and Associates. Altitude 245 ft. Drilled by Merle Warren Well Drilling, 1965

Soil	1	1
Clay	17	18
Clay and gravel	35	53
Clay, brown, and fine gravel	5	58
Clay, blue	9	67
Sand and gravel, brown	3	70
Sand and gravel, black	16	86
Sand, compacted	1	87
Clay, brown	1	88

Casing: 8-in. to 88 ft; perforated 75-88 ft.

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

12/3W-7E1. City of Tangent. Altitude 245 ft. Driven by W. A. Slate, prior to 1928

Materials	Thickness (feet)	Depth (feet)
Soil	20	20
"Hardpan"	11	31
Gravel, with clayey gravel, water-bearing (small yield)	4	35
"Hardpan" (cemented gravel)	7	42
Gravel, water-bearing (larger yield)	3	45

Casing: 1¼-in. to 36 or 40 ft; screen at base.

12/3W-7E2. Tangent Fire Dept. Altitude 245 ft. Drilled by Merle Warren Well Drilling, 1961

Soil	4	4
Clay	14	18
Gravel, dirty	16	34
Gravel, sandy	13	47
Gravel, water-bearing	22	69
Gravel, cemented	10	79
Sand, black	4	83
Gravel and sand, black	4	87
Clay, blue	1	88

Casing: 10-in. to 86 ft; perforated 72-86 ft.

12/3W-9R1. J. H. Swatzka. Altitude 273 ft. Dug by owner, prior to 1928

Soil	2	2
Clay, "tight"	2	4
Silt, yellow	9	13
Stream materials, coarse; 6-in. cobbles to clay matrix	5	18
Gravel, water-bearing	2	20

Casing: 30-in. dry brick to 20 ft. Did not dig to "second water" at about 60 ft.

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

12/3W-11H1. C. G. Nofziger. Altitude 290 ft. Driven by W. A. Slate, 1928

Materials	Thickness (feet)	Depth (feet)
Soil and clay	12	12
Gravel, cemented, very hard	8	20
Gravel, loose, water-bearing	5	25

Casing: 1¼-in. to 25 ft; screen at base.

12/3W-12A1. G. L. Jackson. Altitude 295 ft. Drilled by Pyle & Salisbury, 1962

Soil	5	5
Sand and gravel, cemented	20	25
Clay, brown, and large boulders	20	45
Clay, brown, and gravel, water-bearing (55 gpm)	10	55
Rock, blue, "broken"	20	75
Sand and gravel, brown, water-bearing (15 gpm)	6	81
"Lime," black, "broken"	24	105
Sand, black, water-bearing	23	128
Sand and gravel, black, and brown mud, water-bearing	7	135
"Lime," black	22	157

Casing: 10-in. to 125½ ft; unperforated.

12/4W-3C1. Chester Ludlow. Altitude 230 ft. Drilled by Frank Wagy Well Drilling, 1966

Clay, gray	18	18
Clay, blue	7	25
Sand and gravel	19	44
Sand, brown	8	52

Casing: 6-in. to 52 ft; perforated 45 to 52 ft.

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

13/1W-3N1. Nylund Lumber Co. Altitude 470 ft. Drilled by Louis Crispen, 1961

Materials	Thickness (feet)	Depth (feet)
"Fill"	4	4
Gravel, cemented	26	30
Gravel, loose	3	33
Gravel, cemented	21	54
Gravel, loose, and brown sand	2	56

Casing: 8-in. to 55 ft; perforated 45-55 ft.

13/1W-15P1. R. A. Bickford. Altitude 515 ft. Drilled by Willamette Irrigation & Equipment, 1956

Soil	6	6
Gravel	5	11
Clay, yellow	13	24
Gravel, cemented	13	37
Clay, yellow	2	39
Clay, blue	2	41
Clay, gray, with gravel	6	47
Clay and sand	5	52
Gravel, cemented	10	62
Gravel, water-bearing	5	67
Clay, blue	2	69
Clay and gravel, gray	6	75
Gravel, compacted	14	89
Gravel	2	91

Casing: 5-in. to 91 ft; unperforated.

13/1W-15Q1. Bill Edwards. Altitude 470 ft. Drilled by Pyle & Salisbury, 1965

Soil	10	10
Sand and clay	12	22
Sand and gravel, cemented	22	44
"Lime," black, "broken"	6	50

Casing: 6-in. to 48 ft; unperforated.

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

13/1W-23L1. G. W. Hill. Altitude 500 ft. Drilled by Willamette Irrigation & Equipment, 1935

Materials	Thickness (feet)	Depth (feet)
Soil	10	10
Gravel, water-bearing	4	14
Gravel, cemented	25	39
Sand and gravel, loose, water-bearing	2	41

Casing: 6-in. to 41 ft; unperforated.

13/1W-24E1. Dan Roth. Altitude 490 ft. Drilled by Willamette Irrigation & Equipment, 1958

Soil	9	9
Boulders, cemented	4	13
"Limestone" and shale	27	40

Casing: 5-in. to 21 ft; unperforated.

13/1W-26G1. Sweet Home Cemetery. Altitude 610 ft. Drilled by Jack Witcraft Well Drilling, 1964

Clay, red	35	35
Clay, brown	7	42
Clay, gray	10	52
Clay, sand and gravel, brown	20	72
Sandstone, blue-gray	31	103

Casing: 6-in. to 70 ft, unperforated.

13/1-28Q1. Wallace Truax Oil Co. Altitude 615 ft. Drilled by Jack Witcraft Well Drilling, 1965

Soil and small boulders	10	10
Gravel and small boulders	19	29
Sandstone, blue, fine	31	60
Sandstone, blue-gray, coarse	20	80
Sandstone, gray, fine	55	135
Sandstone, dark-gray, coarse	10	145
Sandstone, light-green	5	150

Casing: 8-in. to 31½ ft; unperforated.

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

13/1-28R1. U. S. Forest Service. Altitude 625 ft. Drilled by Willamette Irrigation & Equipment, 1963

Materials	Thickness (feet)	Depth (feet)
Soil	5	5
Sand and gravel	10	15
Clay, sand, and gravel	8	23
Sand and gravel, water-bearing	5	28
Clay, sand, gravel, and boulders	17	45
Sand and gravel, water-bearing	1½	46½
Claystone, sandy, or lava	158½	205

Casing: 10-in. to 35 ft; 8-in. to 46½ ft; unperforated.

13/1-31H2. Union High School. Altitude 540 ft. Drilled by Jack Witcraft Well Drilling, 1961

Soil	2	2
Clay, brown	6	8
Clay, with gravel and small boulders	12	20
Sand and gravel	15	35
Claystone, gray	6	41

Casing: 8-in. to 35 ft; perforated 29-34 ft.

13/1-32A1. R. R. Graham. Altitude 600 ft. Drilled by Willamette Irrigation & Equipment, 1963

Soil	3	3
Boulders and clay	14	17
Gravel, sand, and clay	8	25
Gravel and sand	3	28
Boulders, gravel, and clay	7	35
Boulders and clay	5	40
Sandstone, gray	7	47
Sandstone, blue-gray, hard	12	59
Sandstone, dark, hard	8	67
"Coal"	3	70

Casing: 8-in. to 44 ft; unperforated.

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

13/1-34B1. Sweet Home Cemetery. Altitude 725 ft. Drilled by Willamette Irrigation & Equipment, 1961

Materials	Thickness (feet)	Depth (feet)
Soil	14	14
Basalt, soft	20	34
Crevice	5	39
Basalt, hard	97	136
Crevice	3	139
Basalt, hard	24	163
Crevice	3	166
Basalt, hard	28	194
Crevice	4	198
Rock, blue-white	30	228
Crevice	3	231
Basalt, black	4	235

Casing: 6-in. to 17 ft; unperforated.

13/1-35K1. Bobby Thedford. Altitude 670 ft. Drilled by Jack Witcraft Well Drilling, 1963

Soil	2	2
Clay, brown, with gravel and boulders	12	14
Sand and gravel	6	20
Sandstone, dark blue-gray	30	50
Sandstone, gray	31	81
Claystone, dirty brown	5	86
Sandstone, gray	29	115
Sandstone, dark-gray	7	122

Casing: 6-in. to 23½ ft; unperforated.

13/2-36Q1. U. S. Forest Service. Altitude 795 ft. Drilled by Harry A. Robinson, 1958

Loam	4½	4½
Gravel and boulders, with yellow-brown clay, pressed in, water at 11-17 ft	14	18½
Ash, volcanic, light-brown, weathered	1½	20
Ash, volcanic, very light-gray	5	25
Ash, volcanic, lavender	5	30
Ash, volcanic, light gray	5	35

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

13/2-36Q1--Continued

Materials	Thickness (feet)	Depth (feet)
Tuffstone, lavender, firm	8	43
Tuffstone, lavender and green, softer	11	54
Tuffstone, lavender, firm	5	59
Tuffstone, beige	41	100

Casing: 8-in. to 36 ft; unperforated.

14/1W-11B1. Don Leming. Altitude 710 ft. Drilled by A & H Drilling Co., 1963

Soil, red	4	4
Rock, blue, broken	10	14
Basalt, black, broken	4	18
Basalt	45	63

Casing: 6-in. to 18 ft; unperforated.

14/1-10K1. J. Z. Kaufman. Altitude 1,020 ft. Drilled by Jack Witcraft Well Drilling, 1957

Clay	30	30
Sand and clay	9	39
Sandstone	111	150

Casing: 8-in. to 41 ft; unperforated.

14/1-12A1. R. C. Hodge. Altitude 735 ft. Drilled by Jack Witcraft Well Drilling, 1960

Soil	5	5
Boulders and gravel	14	19
Sand and gravel	20	39
Sand	17	56
Shale, blue-gray	4	60

Casing: 6-in. to unknown depth; perforated 38-56 ft.

Table 3.--Chemical analyses of water in the lower Santiam River basin, Oregon

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

Location number[1]	Source[2]	Depth of water-bearing zone(s) (feet)	Date of collection	Temperature (°F)	Parts per million[3]: 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)	Phosphate (PO_4)	Boron (B)	Arsenic (As)	Dissolved solids: Calculated	Dissolved solids: Residue on evaporation at 180°C	Hardness: As $CaCO_3$	Hardness: Noncarbonate	Sodium-adsorption-ratio (SAR)	Specific conductance (micromhos at 25°C)	pH	Color	Remarks[4]
7/3W-22Lr[5]	WR	--	11-27-50	48.5	17	--	--	4.0	2.1	[6]5.1	--	24	0	4.1	3.8	--	0.6	--	--	--	--	--	19	0	0.5	48	--	--	
8/1W-34L1	Ts and Tcr	182-317	4-10-61	--	41.5	0.42	<0.05	8.8	8.8	12	2.0	66	0	13.4	5.8	0.3	< .05	0.42	--	--	125	119	57.9	--	.7	136	7.3	2	OBH, turbidity 5, Tw/fluorine.
Do.	do.	182-317	6- 5-62	56	41	1.1	--	10	4.4	14	1.6	80	0	4.2	3.5	.4	0	.45	0.04	--	120	--	43	0	.9	143	7.8	--	
8/2W-28A1	Tcr and Tm	160-205	6- 8-62	57	44	.07	--	12	1.5	44	.6	126	0	23	3.8	.1	.0	.10	.00	--	191	--	36	0	3.2	253	7.5	--	
9/1W-2R1	Ts and Tcr	77-289	5-25-66	57	48	1.6	--	8.6	4.5	12	1.9	70	0	4.2	5.0	.2	.1	.42	.01	.00	121	--	40	0	.8	135	7.2	5	
13D1,2,3	Qal	12-25	6-14-51	64	17	.03	--	4.9	1.1	3.2	2.6	31	0	1.7	1.0	.0	.1	--	--	--	47	45	17	0	.3	54.4	7.3	5	Tw/chlorine and ammonia. Infiltration trench.
14Q1	Tcr	57-326	6-23-66	56	45	.48	--	5.7	3.6	9.9	1.3	60	0	2.8	1.0	.1	.1	.50	.03	.00	101	--	29	0	.9	102	7.5	5	
15B1	Qal	18	1-20-55	--	20	<.05	0	7.6	3.4	3.2	.5	27	0	1.7	2.8	.0	--	.05	--	--	56	63	25	--	.2	34	7.2	3	OBH, 60-ft infiltration trench. Specific conductance measured from 4-11-62 sample.
29R1	Qp	48-49	5-20-66	53	20	.22	--	2.7	1.2	2.5	1.0	12	0	.0	1.8	.1	7.5	.08	.04	.00	43	--	12	2	.3	41	6.2	5	
9/2W-24L3	Qt	15-140	6-23-66	52	26	.75	--	10	4.3	5.7	.8	46	0	2.4	4.0	.1	12	.12	.00	.00	89	--	43	6	.4	117	7.1	5	
9/3W-8C1	do.	41-68	6-17-66	55	31	.05	--	32	10	17	2.0	194	0	.0	3.5	.3	.1	3.5	.00	.00	194	--	121	0	.7	290	7.9	5	
18D1	Qal	15-33.5	6-24-66	54	46	.01	--	23	12	19	1.1	86	0	18	10	.2	52	.45	.02	.00	224	--	105	34	.8	303	7.3	0	
30L3	do.	16-30	5-19-66	51	36	.16	--	20	9.6	7.8	.6	80	0	13	3.5	.1	30	.08	.01	.00	160	--	90	24	.4	224	6.4	0	
34K4	do.	12-22	6-24-66	54	24	.01	--	17	6.6	7.7	.8	62	0	8.0	6.5	.0	21	.04	.05	.00	123	--	70	18	.4	183	6.6	5	
9/1-25E1	Tsa and Tlb	220-240	5-25-66	53	36	.32	--	18	5.5	21	3.2	136	0	5.4	1.2	.1	.3	.05	.00	.00	158	--	68	0	1.3	224	7.4	5	
9/2-18Er	NSR	--	3-13-51	--	--	--	--	--	--	--	--	19	0	2.8	2.5	--	--	--	--	--	--	--	11	0	--	41	7.1	--	

Table 3.--Chemical analyses of water in the lower Santiam River basin, Oregon--Continued

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

Location number[1]	Source[2]	Depth of water-bearing zone(s) (feet)	Date of collection	Temperature (°F)	Parts per million[3]: 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)	Phosphate (PO_4)	Boron (B)	Arsenic (As)	Dissolved solids: Calculated	Dissolved solids: Residue on evaporation at 180°C	Hardness: As $CaCO_3$	Hardness: Noncarbonate	Sodium-adsorption-ratio (SAR)	Specific conductance (micromhos at 25°C)	pH	Color	Remarks[4]
9/2-18Er	NSR	--	1-14-59	42	9.6	--	--	3.0	0.3	1.6	0.1	14	0	1.1	0.8	0.1	0.1	--	--	--	24	22	9	0	0.2	24	6.9	5	
Do.	do.	--	5-12-59	49	11	--	--	3.5	.4	1.5	.3	16	0	1.4	.5	.2	.2	--	--	--	27	27	10	0	.2	30	6.6	5	
Do.	do.	--	9- 4-59	52	16	--	--	4.0	.7	2.1	.6	22	0	1.2	.5	.1	.0	--	--	--	36	32	13	0	.3	38	7.3	0	
10/1W-4J1	Tcr	90-102, 110-112, 124-137	5-25-66	54	23	0.01	--	4.9	3.0	7.8	1.0	25	0	1.2	10	.1	8.8	0.13	0.00	0.00	72	--	24	4	.7	96	6.8	5	
10/2W-1B1	Qt	25-35	6-27-66	54	38	.01	--	9.3	4.7	7.9	2.1	72	0	.0	2.5	.1	.2	.49	.05	.00	100	--	42	0	.5	123	7.1	5	
8N2	Qal	17-21	5-18-66	50	20	.01	--	7.4	2.5	3.3	.4	32	0	3.8	1.5	.0	4.3	.14	.01	.00	59	--	29	3	.3	76	6.6	5	
19Q2	do.	19-22	6-24-66	52	24	.04	--	21	7.2	7.0	.9	62	0	18	5.5	.1	23	.03	.09	.00	138	--	82	31	.3	210	6.6	5	
10/3W-5K4	do.	19-25	6-23-66	--	22	.14	--	12	3.4	4.2	.7	46	0	7.8	1.8	.1	6.4	.05	.00	.00	82	--	44	6	.3	110	6.5	0	
11Jr	SR	--	11-27-50	47	13	--	--	--	--	--	--	24	0	2.3	3.5	--	.4	--	--	--	--	--	16	0	--	35.6	--	--	
Do.	SR	--	2-20-51	42	16	--	--	--	--	[6]4.2	--	24	0	2.5	1.8	--	.5	--	--	--	--	--	16	0	.2	40.8	--	--	
Do.	SR	--	4-21-60	45	12	--	--	4.0	.2	1.8	.4	18	0	1.0	.5	.0	.2	--	--	--	29	33	11	0	.2	36	7.1	10	Sampled during flood.
Do.	SR	--	6-15-60	57	13	--	--	4.0	.8	2.3	.5	22	0	1.2	1.0	.0	.1	--	--	--	34	37	13	0	.3	39	7.2	5	
Do.	SR	--	8-16-60	59	14	--	--	4.0	2.3	2.5	.5	23	0	3.2	.5	.0	.2	--	--	--	38	38	20	0	.2	48	7.2	5	
10/3W-12N1	Qal	Above 38	4-10-61	--	33.5	.08	<0.05	17.3	25.0	8.0	3.0	40	--	33.2	6.7	.1	10.2	<.02	--	--	161	223	146	--	.3	250	7.3	1	OBH, Tw/chlorine.
10/3W-12N2	do.	Above 40	4-10-61	--	34	.58	<.05	18.6	27.7	7.0	1.0	42	--	41	6.3	.1	12.3	<.02	--	--	174	223	160	--	.2	250	7.4	2	OBH, untreated.
10/3W-12N3	do.	24-30	4-10-61	--	33	1.78	<.05	16.2	25.0	9.0	1.0	41	--	39.6	7.7	.1	13.5	<.02	--	--	170	204	143	--	.3	250	7.5	2.5	OBH, Tw/chlorine.
10/3W-13F1	do.	8-21	6-17-66	52	22	.01	--	13	4.2	4.6	.8	47	0	10	2.0	.1	11	.05	.05	.00	91	--	50	12	.3	124	6.9	5	
10/3W-15M1	Tm	240-245	5-19-66	54	36	.02	--	24	13	11	1.1	153	0	6.2	5.0	.2	.1	.14	.00	.00	170	--	114	0	.1	260	7.5	0	

Table 3.--Chemical analyses of water in the lower Santiam River basin, Oregon--Continued

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

Location number[1]	Source[2]	Depth of water-bearing zone(s) (feet)	Date of collection	Temperature (°F)	Parts per million[3]: 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)	Phosphate (PO_4)	Boron (B)	Arsenic (As)	Dissolved solids: Calculated	Dissolved solids: Residue on evaporation at 180°C	Hardness: As $CaCO_3$	Hardness: Noncarbonate	Sodium-adsorption-ratio (SAR)	Specific conductance (micromhos at 25°C)	pH	Color	Remarks[4]
10/3W-15P1	Tm	51-70	5-25-66	55	35	13	--	2.9	2.1	7.9	1.1	16	0	0.8	11	.1	1.4	1.2	0.02	0.00	72	--	16	3	1	74	5.3	50	
20K1	do.	105-150	6-17-66	56	37	.79	--	13	7.7	10	1.3	80	0	14	7.0	.2	.0	.05	.05	.00	129	--	64	0	.5	171	6.9	15	
35Qs	Ti	--	5-20-66	56	14	.01	--	2	1.1	2.4	.1	12	0	0	2.5	.0	1.9	.03	.00	.00	30	--	10	0	.3	33	5.8	0	
36C1	Tm(?)	26-50	5-25-66	55	32	.44	--	38	15	37	2.4	288	0	0	4.0	.4	.6	1.6	.00	.00	273	--	156	0	1.3	445	7.3	5	
10/4W-11A1	Qal	12-32	6-23-66	53	30	.01	--	27	7.9	18	.8	74	0	19	28	.2	19	.14	.00	.00	186	--	100	40	.6	294	6.6	0	
14Jr	WR	--	4-27-61	--	17	.14	.0	5.5	1.5	3.4	.3	30	--	.2	1.8	.1	.1	--	--	--	--	50	20	0	.3	55	7.4	--	
Do.	do.	--	11- 7-61	--	16	.25	.0	5.0	1.8	3.9	.8	30	0	2.4	2.0	.1	.2	--	--	--	47	49	20	0	.4	59	7.0	15	Untreated, turbidity 25, total alkalinity 25, carbon dioxide (CO_2) 4.8 calculated.
Do.	do.	--	11- 7-61	--	15	.00	.0	14	1.7	3.9	1.0	34	2	10	8	.2	.3	--	--	--	73	74	42	10	.3	110	8.4	5	Tw/alum, lime, chlorine, and ammonia; turbidity 0; total alkalinity 31; carbon dioxide (CO_2) 0.2 calculated.
10/1-9L2	Tlb	53, 158, 210	6-24-65	54	28	.48	--	4.8	1.4	8.8	1.3	40	0	3.2	1.8	.1	.5	.11	.00	.00	70	82	18	0	.9	79	6.4	0	SpA.
11/1W-25C1	Qp	50-54	5-24-66	54	26	.01	--	8.3	3.8	5.1	1.0	24	0	0	9.2	.1	19	.10	.05	.00	85	--	36	16	.4	110	5.9	0	
11/2W-3D1	Qt	38-107	6-23-66	52	28	.03	--	19	6.9	15	.5	108	0	6.2	5.5	.1	5.5	.38	.02	.00	140	--	76	0	.7	214	6.8	0	
6B1	Qt	70-74	6-17-66	56	28	.83	--	13	6.5	37	1.9	122	0	1.2	27	.1	3.5	1.9	.26	.00	180	--	59	0	2.1	278	7.9	5	
22H1	Qal	14-21	5-24-66	52	26	.06	--	19	6.6	5.7	.5	74	0	14	3.7	.1	9.9	.13	.00	.00	121	--	74	14	.3	180	6.4	0	
24B1	Qt	Above 73	10-12-28	54	25	.93	--	7.1	3.5	38	2.2	132	0	3.0	5.5	--	1.0	--	--	--	150	150	32	--	2.8	--	--	--	
11/3W-4C1	Qt	33-41	10-12-28	--	38	.05	--	12	6.9	5.7	1.6	71	0	4.4	2.4	--	6.7	--	--	--	113	116	58	--	.3	--	--	--	

Table 3.--Chemical analyses of water in the lower Santiam River basin, Oregon--Continued

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

Location number[1]	Source[2]	Depth of water-bearing zone(s) (feet)	Date of collection	Temperature (°F)	Parts per million[3]: 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)	Phosphate (PO_4)	Boron (B)	Arsenic (As)	Dissolved solids: Calculated	Dissolved solids: Residue on evaporation at 180°C	Hardness: As $CaCO_3$	Hardness: Noncarbonate	Sodium-adsorption-ratio (SAR)	Specific conductance (micromhos at 25°C)	pH	Color	Remarks[4]
11/3W-4G1	Qt	57.5-59	5-24-66	57	42	.08	--	7.4	4.6	17	1.2	84	0	1.0	2.5	0.1	0.8	1.7	0.02	0.00	119	--	38	--	1.2	143	7.5	5	
6Nr	WR	--	11-27-50	48	18	--	--	4.2	1.8	[6]7.4	--	29	0	4.9	3.2	--	.8	--	--	--	55	--	18	0	.8	51.6	--	--	
Do.	do.	--	2-20-51	44	19	--	--	--	--	[6]5.1	--	30	0	3.5	2.3	--	.8	--	--	--	--	--	21	0	--	51.1	--	--	
Do.	do.	--	6- 8-52	--	16	--	--	--	--	--	--	30	0	--	--	.2	--	--	--	--	--	--	17	0	--	46.8	--	--	
13A1	Qt and Tm	70-92	6-23-66	55	23	.05	--	12	4.6	16	.7	98	0	.2	2	.1	.3	.43	.01	.00	85	--	49	0	1	158	7.7	5	SiO_2 from sample collected 12-10-66.
17F2	Qt	29-66	6-17-66	56	33	.37	--	33	17	14	1.0	213	0	1.4	4.5	.3	.2	.81	.11	.00	210	--	152	0	.5	330	7.8	5	
26A1	Qt	74-90, 144-151	6-17-66	56	30	.77	--	23	13	15	1.0	162	0	.6	6.0	.1	2.3	.35	.00	.00	172	--	111	0	.6	260	8.0	10	
12/1W-11H1	Tlb	70-90	6-17-66	57	23	.26	--	39	11	84	1.4	390	0	4.6	5.5	.2	.1	.20	.47	.08	362	--	142	0	3.1	580	8.2	5	
28Er	SSR	--	2-20-51	--	14	--	--	--	--	[6]4.4	--	22	0	3.0	1.6	--	.2	--	--	--	--	--	14	0	--	35.8	--	--	
29N1	Tlb	100-104, 136-151	6-24-65	55	60	3.6	--	10	6.8	51	2.4	154	0	2.0	26	.1	.2	.93	.65	.07	240	256	53	0	3.1	329	6.8	5	SpA.
12/2W-11N1	Qt and Tm	85-115	10-12-28	54	36	.03	--	12	5.1	6.3	1.4	74	0	3.5	2.0	--	.25	--	--	--	103	98	51	0	.4	--	--	--	
11R1	do.	--	4-14-58	56	38	.03	.10	9.6	1.9	27	1.0	96	0	4.1	6.0	0	0	.24	--	--	135	139	32	0	2.1	169	8.2	0	SpA.
18C1	do.	86-107	6-27-66	56	27	.02	--	11	5.0	23	1.0	98	0	1.6	9.5	.2	1.8	.52	.08	.00	129	--	48	0	1.4	189	7.9	5	
12/3W-7E1	Qt	42-45	4-18-29	51.4	35	.08	--	31	18	14	1.1	193	0	2.1	13	--	3.8	--	--	--	213	204	151	--	.5	--	--	--	
13/1-28R1	Tlb	45-205	6-18-65	56	31	.03	--	6.8	1.9	8.8	.4	49	0	.2	1.8	.1	3.3	.59	.01	.00	79	91	25	0	.8	88	7.6	0	SpA.
35K1	do.	23½-122	6-23-65	55	20	.01	--	13	.8	36	.3	132	0	1.4	3.2	.0	.0	.60	.09	.01	140	135	36	0	1.9	213	8.2	0	SpA.
13/2-15Cr	MSR	--	8-18-64	62	11	.53	--	5.0	1.5	2.8	.5	27	0	3.0	.5	.1	.2	.02	--	--	--	33	19	0	.3	52	7.4	5	Turbidity 0.

Table 3.--Chemical analyses of water in the lower Santiam River basin, Oregon--Continued

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

Location number[1]	Source[2]	Depth of water-bearing zone(s) (feet)	Date of collection	Temperature (°F)	Parts per million[3]																									Remarks[4]
					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)	Phosphate (PO_4)	Boron (B)	Arsenic (As)	Dissolved solids: Calculated	Dissolved solids: Residue on evaporation at 180°C	Hardness: As $CaCO_3$	Hardness: Noncarbonate	Sodium-adsorption-ratio (SAR)	Specific conductance (micromhos at 25°C)	pH	Color	
13/2-3601	Tsa	46-100	3-18-58	52	35	.60	0.01	46	9	200	2.1	414	0	25	164	0.2	0.3	--	1.1	--	683	--	152	0	7.1	1,170	6.9	0	
Do.	do.	46-100	6-23-65	54	34	1.6	--	80	17	257	2.6	443	0	43	300	.1	.0	.13	2.39	.12	956	965	270	0	6.4	1,670	7.0	5	SpA.
14/1W-11B1	Tcr and Tlb	14-63	6-28-65	56	14	.14	--	3.6	1.5	2.9	.2	24	0	.2	1.0	.1	1.7	.37	.01	.00	38	44	16	0	.3	46	6.3	5	SpA.

1/ Location number is the same as the well number. See p. for a description of the well-numbering system. The letter "s" indicates source is a spring; "r" indicates source is a river.

2/ Stream--WR, Willamette River; SR, Santiam River; NSR, North Santiam River; SSR, South Santiam River; MSR, Middle Santiam River. Aquifer--Qal, Recent alluvium; Qt, terrace alluvium; Qp, piedmont gravel, sand, and clay; Ts, andesitic lava, breccia, tuff; Tcr, basaltic lava flows; Tlb, volcanics; Tm, marine sediments; Ti, intrusives.

3/ < indicates less than amount shown.

4/ OBH, sample analyzed by the Oregon State Board of Health; Tw/, treated as indicated; SpA, spectrographic analysis included in table 4.

5/ Ten miles north of the Santiam River basin area.

6/ Includes potassium.

Table 4.--Spectrographic analyses of ground water in the lower Santiam River basin, Oregon

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

Location number[1]	Source[2]	Micrograms per liter[3]																		Micromicrocuries per liter[3]	
		Aluminum (Al)	Beryllium (Be)	Bismuth (Bi)	Cadmium (Cd)	Chromium (Cr)	Cobalt (Co)	Copper (Cu)	Gallium (Ga)	Germanium (Ge)	Iron (Fe)	Lead (Pb)	Manganese (Mn)	Molybdenum (Mo)	Nickel (Ni)	Titanium (Ti)	Uranium (U)	Vanadium (V)	Zinc (Zn)	Beta-gamma activity	Radium (Ra)
10/1-9L2	Tlb	13	< 0.57	< 0.29	< 1.4	< 1.4	< 1.4	34	< 5.7	< 0.29	40	< 1.4	13	1.4	0.51	1.4	--	1.4	429	--	--
12/1W-29K1	Tlb	7.4	< .57	< .29	< 1.4	< 1.4	< 1.4	< 1.4	< 5.7	< .29	6.9	< 1.4	4.9	≦ .29	≧ .29	< .57	--	.69	< 5.7	--	--
12/2W-11R1	Qt	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.3±0.1	--	--	< 7	< 0.1
13/1-28R1	Tlb	5.7	< .57	< .29	< 1.4	< 1.4	< 1.4	< 1.4	< 5.7	< .29	3.7	< 1.4	< 1.4	< .29	.37	< .57	--	12	> 1,000	--	--
13/1-35K1	Tlb	< 1.4	< .57	< .29	< 1.4	< 1.4	< 1.4	< 1.4	< 5.7	< .29	>1,000	< 1.4	< 1.4	≦ .29	≦ .29	34	--	< .29	< 5.7	--	--
13/2-36Q1	Tsa	8.3	< .57	< .29	< 1.4	< 1.4	< 1.4	< 1.4	< 5.7	≦ .29	1.2	< 1.4	> 1,000	≦ .29	≧ .29	< .57	--	.89	< 5.7	--	--
14/1W-11B1	Tcr and Tlb	19	< .57	< .29	< 1.4	< 1.4	< 1.4	86	< 5.7	< .29	36	< 1.4	18	< .29	.80	< .57	--	< .29	17,000	--	--

1/ See p. for a description of the well-numbering system.

2/ See footnote 2 for table 3.

3/ > more than amount indicated, ≧ more than or equal to amount indicated.

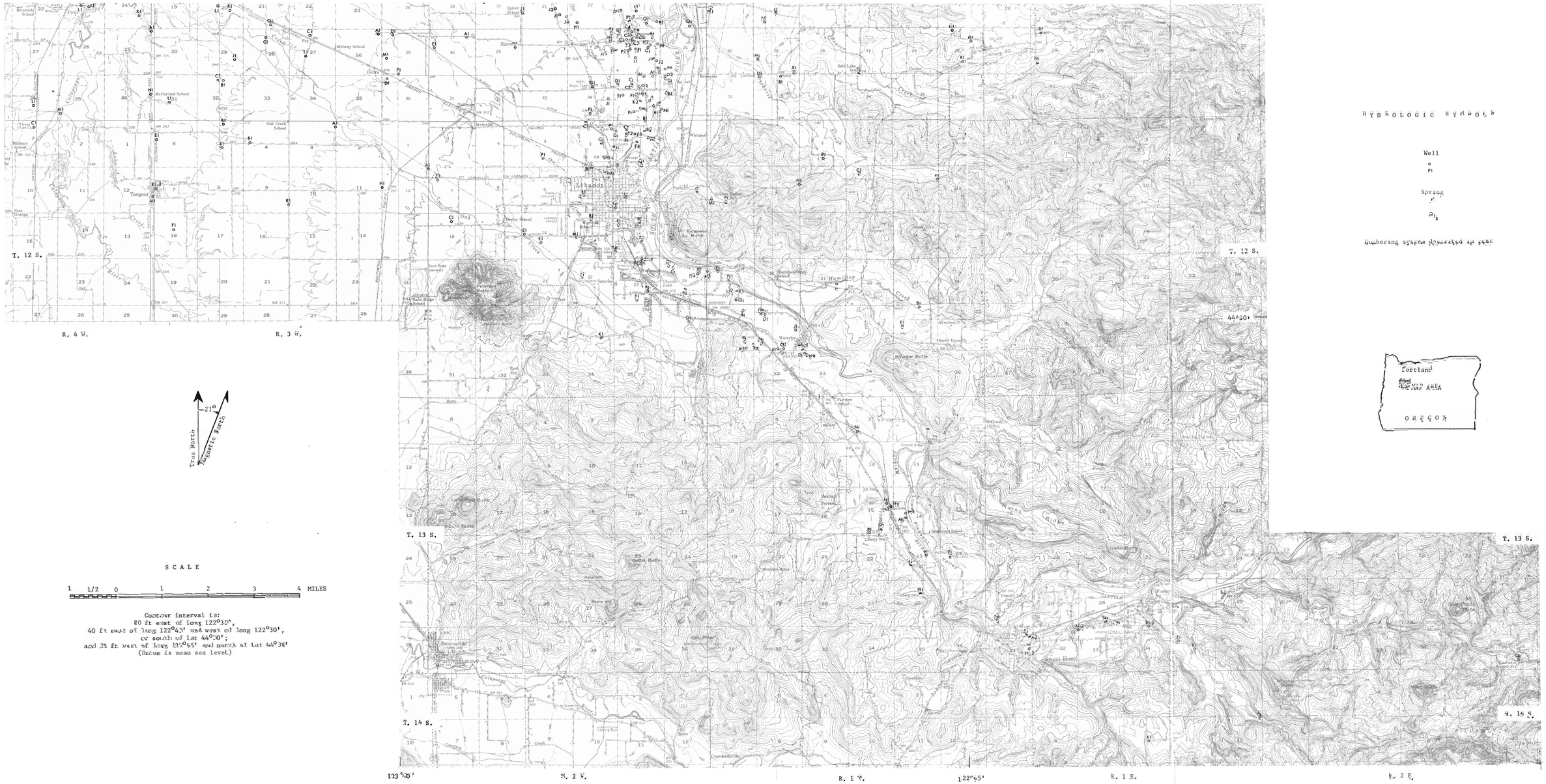
< less than amount indicated, ≦ less than or equal to amount indicated.

OREGON STATE ENGINEER

GROUND-WATER REPORT NO. 13

PLATE 1

NORTHERN HALF



SCALE

1 1/2 0 1 2 3 4 MILES

Contour interval is:
80 ft east of long 122°37',
40 ft east of long 122°45' and west of long 122°30',
or south of lat 44°30';
and 25 ft west of long 122°45' and north of lat 44°30'
(Datum is mean sea level)

Base from U.S. Geological Survey 15-minute topographic quadrangles: Albany, 1957; Brownsville, 1956; Lebanon, 1957; Lyons, 1951; Mill City, 1945; Quartzville, 1950; Salem, 1957; Snow Peak, 1951; Stayton, 1957; Sweet Home, 1951

Prepared in cooperation with the U.S. Geological Survey (1967)

SOUTHERN HALF

HYDROLOGIC SYMBOLS

Well
○
Pl

Spring
Pl_S

Numbering system described in text

MAP OF THE LOWER SANTIAM RIVER BASIN, OREGON,

showing the locations of representative wells