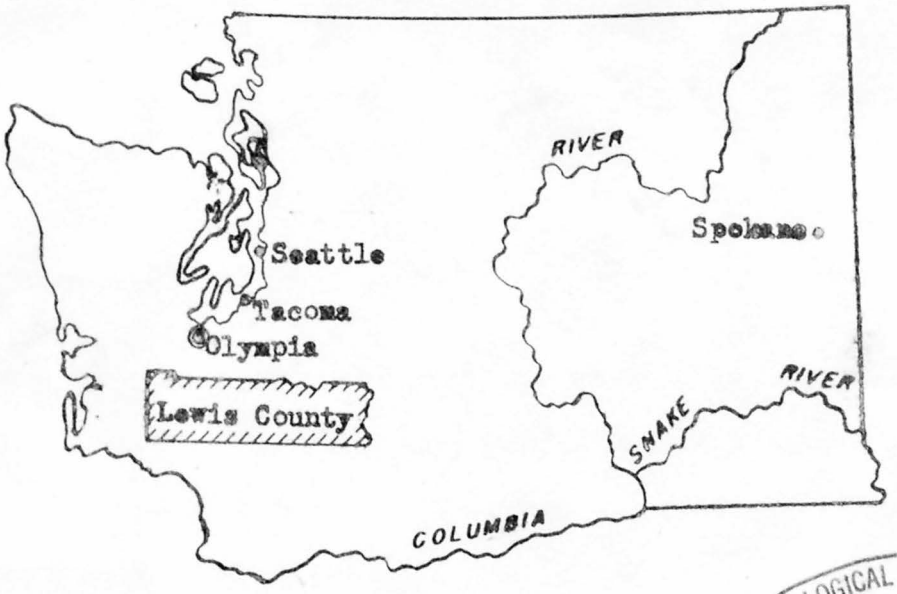
UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WATER RESOURCES DIVISION
GROUND WATER BRANCH

RECORDS OF WELLS AND SPRINGS, WATER LEVELS, AND QUALITY OF GROUND WATER IN LEWIS COUNTY, WASHINGTON

By

J. M. Weigle and R. L. Washburn



Prepared in cooperation with the
State of Washington
Department of Conservation and Development
Division of Water Resources

Open-file report. Not reviewed for conformance with stratigraphic nomenclature or editorial standards of the Geological Survey

August
1956

CONTENTS

ILLUSTRATIONS

TABLES

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INTRODUCTION

Location and Description of Area

Lewis County lies in southwestern Washington, 20 to 45 miles south of Puget Sound, and extends from the summit of the Cascade Range westward across the Puget Trough to the Coast Range. This report covers an irregularly shaped area of about 830 square miles in the west and central parts of Lewis County, including most of its populated part. The area mapped spans the county from north to south within the Puget Trough and includes valleys extending eastward and westward up the major streams (fig. 1.) The investigation was concentrated chiefly in the basins of the Cowlitz, Chehalis, and Newaukum Rivers.

Broadly, west-central Lewis County is a triangular basin whose corners are at Centralia, Vader, and Mayfield. This basin was partially filled with sand and gravel deposits of early Pleistocene age. Streams, at times fed by glaciers, subsequently discharged across this fill, cutting broad valleys, and in the process formed terraces and benches underlain by glacial outwash and alluvium. Present drainage is from uplands of Tertiary rocks though the basin and out by way of the Chehalis-Newaukum and Cowlitz Rivers, through gaps at Chehalis and southwest of Toledo, respectively. A low divide extending approximately west-southwestward across the center of the basin separates the drainage into the Cowlitz and the Chehalis-Newaukum River systems.

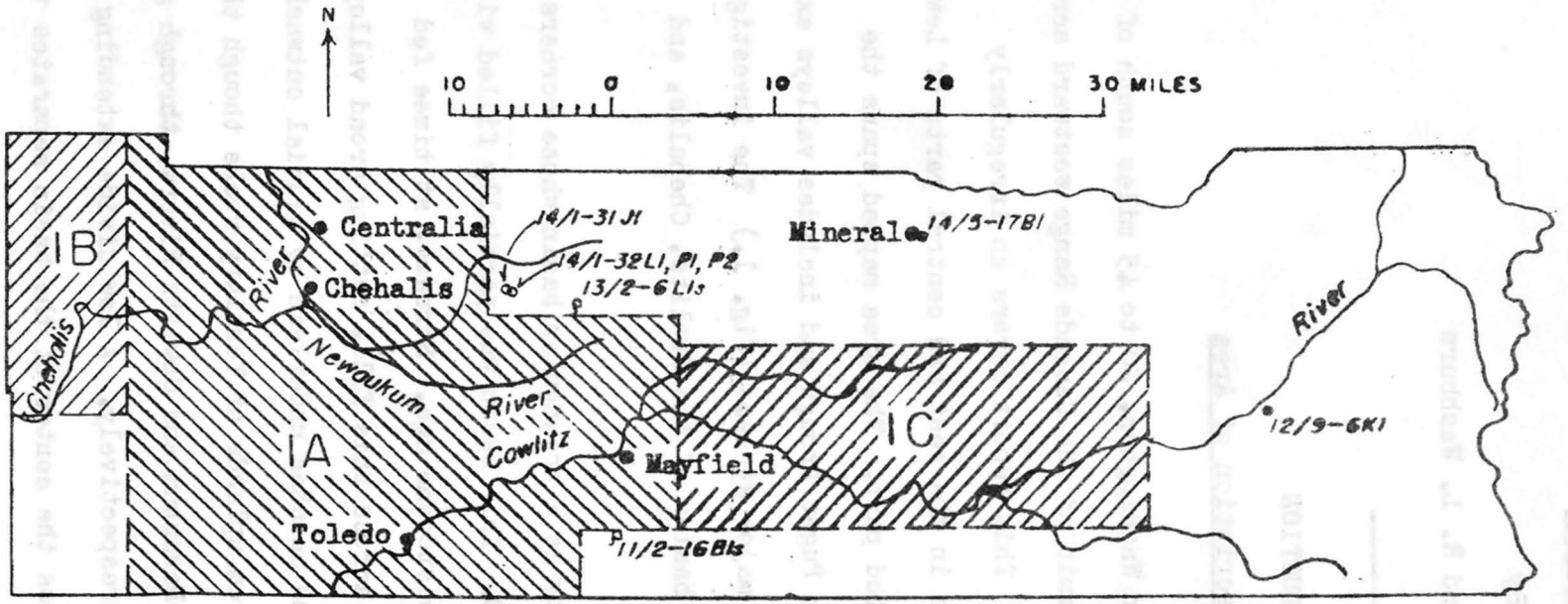

Figure 1.--Map of Lewis County, Washington, showing areas included on plates 1A, 1B, 1C (in pocket)

The topography of the basin differs strikingly from that of the surrounding uplands. Elevations in the basin range from about 1,100 ft in the east to less than 100 ft in the flood plain of the Cowlitz River south of Toledo. The topography of the basin is mainly one of broad upland benches, narrower terraces at lower levels, and flood plains associated with the present drainage. In general, the land surface slopes gently west and southwest, but near Napavine the slope changes to north and northwest.

The uplands of Tertiary rocks surrounding the basin are rather rough. Ridges, steep slopes, and "V"-shaped valleys occupy most of the land surface. Runoff from rainfall generally is rapid. Snow accumulates in the winter and may release water suddenly when melted by rain or warm weather.

Lewis County is predominantly rural, with a concentration of population in the Centralia-Chehalis area which serves the commercial interests of the surrounding lumbering and agricultural activities. Lumbering has been and still is important in the economy of the county, although most of the remaining timber is in the highlands and less accessible areas. Much of the land, especially at lower and intermediate levels, has been logged off and is used for woodland and agricultural purposes. The chief agricultural products include poultry and poultry products, dairy products, livestock, hay and grain crops, nuts, and fruit, especially small fruits such as strawberries and raspberries.

The climate of Lewis County is typical of that of the Pacific Northwest between the Cascade Mountains and the Pacific Ocean; winters are wet and mild, and summers are generally warm and dry. Centralia receives an average of 49.6 inches of precipitation per year, of which about half (51 percent) falls in the period from November through January. Maritime air, borne by prevailing westerlies, provides the precipitation for the area and modifies the temperature regime. The generally equable weather is altered only occasionally by influxes of drier air from the north and east.

Purpose and Scope of Investigation

In 1952 the U. S. Geological Survey, in cooperation with the Washington State Division of Water Resources, began an investigation of the ground-water resources of Lewis County. The purpose was to obtain basic data to aid in the utilization and orderly development of the ground-water potential of the county. The investigation was made because of the rapidly expanding use of ground water for irrigation and the discovery of artesian water in Lewis County.

The basic data in this report pertaining to Lewis County are released at this time so that they may be used by those concerned with the development and use of ground water. A report describing the geology and hydrology of the area is in preparation for future release.

A preliminary investigation was made in 1947 in southwestern Thurston County and that part of the Chehalis Valley from the northern border of Lewis County to Littell, about 7 miles to the southwest./

Occurrence of Ground Water

In general, the most permeable water-bearing materials in Lewis County are sand and gravel of Quaternary age. These are restricted to lowlands and to the upland prairies, benches, and terraces in the west-central basin described above. The less permeable Tertiary materials in the hills surrounding the basin cannot be relied upon to yield water in large amounts.

/Schlax, W. N., Jr., 1947, Preliminary report on ground-water resources of the Central Chehalis Valley, Washington: U. S. Geol. Survey open-file report.

The most permeable unit of significance in Lewis County is the sheet of outwash sand and gravel of late Pleistocene age extending into the county from the north and underlying the Centralia plain between the southern city limit of Centralia and the northern border of Lewis County. The outwash covers about 9 square miles in Lewis County and attains a maximum thickness of 90 ft. The city of Centralia well 14/2W-5G2, drilled entirely in these deposits, has been pumped continuously for 12 hours at 880 gpm, with a drawdown of 18 ft.

The most extensive deposits used as a source of ground water are the sand and gravel that blanket most of the basin south of Centralia to a depth of 50 to 200 ft. The permeability of much of this material, especially that underlying the higher benches, is reduced by interstitial clay and silt, and these layers yield little water. At most places, however, clay-free gravel occurs at one or more horizons in these deposits, and yields of 50 to 150 gallons per minute (gpm) or more usually can be obtained. An example of the higher yields sometimes obtainable from this material is that of well 12/2W-9L4, belonging to G. R. Smith, which was pumped for more than 4 hours at 284 gpm, with a drawdown of 11 ft.

Underlying the sand and gravel in most of the basin is an extensive, presumably nonmarine, formation of late Tertiary age, consisting chiefly of silt and clay and containing sand and gravel members which yield moderate supplies of water. In the valleys of the Newaukum River and its north and south forks, in T. 13 N., R's. 1 W., 2 W., and 1 E., wells drilled into this formation yield artesian water in quantities which differ considerably from location to location, but sometimes amount to several hundred gallons per minute. Indicative of the better yields obtainable are those of wells 13/1W-29R1 (See p. 7), belonging to J. E. Deniston, and 13/2W-15M1, belonging to Dennis Hamilton. Well 13/1W-29R1 reportedly has a potential flow of 300 gpm; when allowed to flow more than 4 hours at 60 gpm, the drop in head was 8 ft. Well 13/2W-15M1,

was pumped for 3 days at 85 gpm, with a drawdown of 34 ft; it has been pumped continuously for 6 weeks at 150 to 175 gpm. Initial flows of as much as 600 gpm have been reported for some wells.

Moderate amounts of water are obtained also from sand of Tertiary age underlying the basalt immediately north of the Chehalis Valley, between Littell and Claquato. Wells, some of which flow, produce an average yield of 10 to 20 gpm from this sand.

Clay, shale, silt, siltstone, fine-grained sandstone, pyroclastic materials, and basalt underlie the nonmarine unit of late Tertiary age throughout the basin, and in general make up the surrounding highlands. The permability of most of the older Tertiary materials is so low that wells drilled into them usually do not yield more than enough water for domestic use.

Acknowledgments

The well records were obtained from well owners and users, well drillers, and pump companies. The friendly cooperation of these people and all other residents in the area is gratefully acknowledged. Thanks and appreciation are expressed to R. E. Roffler, the Lewis County Extension Agent; the personnel of the Washington State Division of Water Resources; the U. S. Soil Conservation Service; the Light Division, Department of Public Utilities, City of Tacoma; and the Northern Pacific Railway Co.

EXPLANATION OF DATA

Well-Numbering System

Well numbers used by the Geological Survey in the State of Washington are based on and show locations of wells according to the rectangular system for subdivision of public land, indicating township, range, section, and 40-acre tract within the section. For example, in the well number 13/1W-23P1, the part preceding the hyphen indicates successively the township

and range (T. 13 N., R. 1 W.) north and west of the Willamette base line and meridian. (Because all townships in Washington are north of the Willamette base line the letter "N", indicating north, is omitted; and because most of the State is east of the Willamette meridian the letter "E" is omitted for those ranges east of the Willamette meridian, but "W" is included when the range lies west of the Willamette meridian.) The first number following the hyphen indicates the section (sec. 23) and the letter (P) gives the 40-acre subdivision of the section as shown in the diagram. The last number (1) is the serial number of the well in that particular 40-acre tract. Thus, the first well recorded in the SE¼SW¼ sec. 23 T. 13 N., R. 1 W., would have the number 13/1W-23P1 and the second well would have the number 13/1W-23P2.

Springs are numbered in the same manner except that the letter "s" is added after the serial number. Thus, the first spring in the SE¼SW¼ sec. 23 would have the number 13/1W-23P1s.

D	C	B	A
E	F	G	H
M	L	K	J
N	P	Q	R

P1

Well Records

Table 1 contains records of the municipal wells, most of the irrigation and institutional wells, and a sampling of representative domestic and other wells in Lewis County. Most of the records were obtained in 1952, 1953, and 1954. Records of some wells in the Centralia-Chehalis area were obtained in 1947; these wells were revisited in 1953-54 and the water levels remeasured wherever possible.

Elevations were obtained by interpolation from topographic maps and by steroscopic viewing of aerial photographs.

Most of the information in table 1 is based on reported data obtained from the owners, drillers or users of the wells. For some wells written records were available, but for others the information was reported from memory and is subject to error. Unless otherwise indicated, the depth to water is the measured depth. Also, the temperatures shown were measured.

In the fall of 1952 water levels in central Lewis County, as in other parts of the State, were unusually low. Many of the wells described in this report were visited at that time, and their yields frequently were reported as inadequate, although in normal years the same wells might have been reported by owners or users as yielding adequate supplies of water.

Well Logs

The well logs given in table 2 are based on records obtained from drillers or owners of the wells. In most cases these records were made at the time of drilling, but the records of many dug wells were reported from memory. The records were edited for consistency of presentation but were not changed otherwise.

Descriptions of some materials encountered varies with the background of the driller or owner of the well. For example, tight gravel and clay may be termed cemented gravel, hardpan, or even bedrock; compacted clay may be described as clay, shale, or soapstone; compacted sand may be sandstone or sand; and cobbles and boulders sometimes are referred to as rock. Also, "blue clay" variously indicates blue, blue-gray, green-gray or gray clay, claystone, silt, siltstone, or shale.

Spring Records

Table 3 includes descriptions of most of the larger springs and a representative sampling of smaller springs in central and western Lewis County. A greater proportion of existing springs were visited in the Centralia-Mayfield-Toledo basin than in the surrounding highlands.

Some of the shallow wells included in table 1 were made by digging at the sites of springs or seeps.

Chemical Analyses and Miscellaneous Chemical Tests

Results of 11 partial and 7 relatively complete chemical analyses of ground-water samples from wells in Lewis County are included in table 4. The laboratory making each analysis is credited in the table. Some of the analyses were modified slightly by changing the form in which the constituents were reported so that these analyses would be readily comparable with the others. Changes were made as follows:

Grains per gallon were converted to parts per million

Alkalinity (as $CaCO_3$) was converted to HCO_3

Calcium (as $CaCO_3$) was converted to Ca

Magnesium (as $CaCO_3$) was converted to Mg

Chloride (as NaCl) was converted to Cl

Sulfate (as Na_2SO_4) was converted to SO_4

In addition to the chemical analyses, field methods were used to determine the hardness, chloride, and alkalinity of water from about 450 wells and springs, and the results are given in table 5. Hardness was determined by titration with the disodium salt of ethylenediamine tetraacetic acid./

/ Schwarzenbach, G. and Ackermann, H., 1947, Complexions v. ethylenediaminetetraacetic acid: Helvetica Chimica Acta, v. 30, p. 1798.
_____, 1948, Homologs of ethylenediaminetetraacetic acid and their alkaline-earth complexes: Helvetic Chimica Acta, v. 31, p. 1029.
Diehl, H. Goetz, C. A. and Hach, C. C., 1950, The versenate titration for total hardness: Jour. Am. Water Works Assoc., v. 42, no. 1, p. 40.

Chloride was determined by titration with silver nitrate, using potassium chromate as an indicator. Alkalinity as carbonate and bicarbonate was determined by titration with sulfuric acid using phenolphthalein and methyl orange, respectively, as indicators, and the results are expressed in terms of bicarbonate.

Water-Level Fluctuations

During the period 1952-55 water levels in about 45 observation wells distributed throughout the area under investigation were measured periodically. Also measurements of the water levels in well 11/1W-5H1 have been made from 1942 to the present time and in well 14/2W-4E1 from 1938 to 1943. In addition, the Northern Pacific Railway has made measurements of the water levels in well 14/2W-4E1 since 1946 and in well 11/2W-29P1 since 1951.

Figures 2-14 show graphs of the fluctuations of the water levels. All water levels shown in figures 2-14 are expressed in feet below the land surface in the immediate vicinity of the wells concerned. Water-level measurements in well 11/1W-5H1, made in 1942 and 1943, and measurements in well 14/2W-4E1, made in 1938-43, inclusive, were published in Geological Survey Water-Supply Paper 990, part 5, northwestern States. Measurements in well 11/1W-5H1, made in 1944-52, inclusive, have been published in Water-Supply Papers 1020, 1027, 1075, 1100, 1130, 1160, 1169, 1195, and 1225 under the general title "Water Levels and Artesian Pressures in Observation Wells in the United States (year), part 5, Northwestern States." Measurements in wells 11/1W-5H1, 13/1W-9E1, 13/1W-28P1, 13/2W-36F1, and 14/2W-17K2 made in 1953, 1954, and 1955 are in the process of publication in the above series.

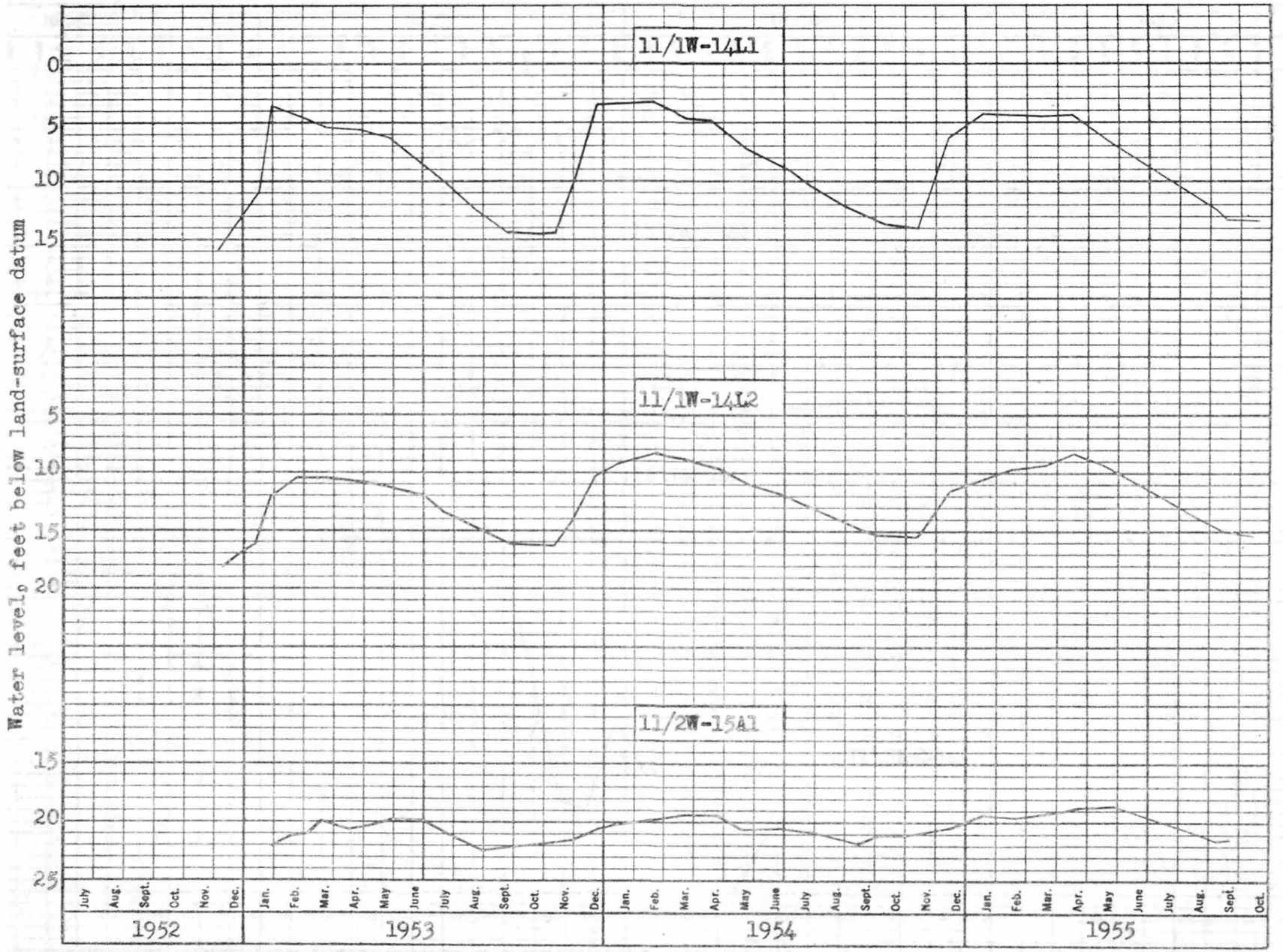

Figure 2.--Hydrographs showing fluctuations of water levels in observation wells.

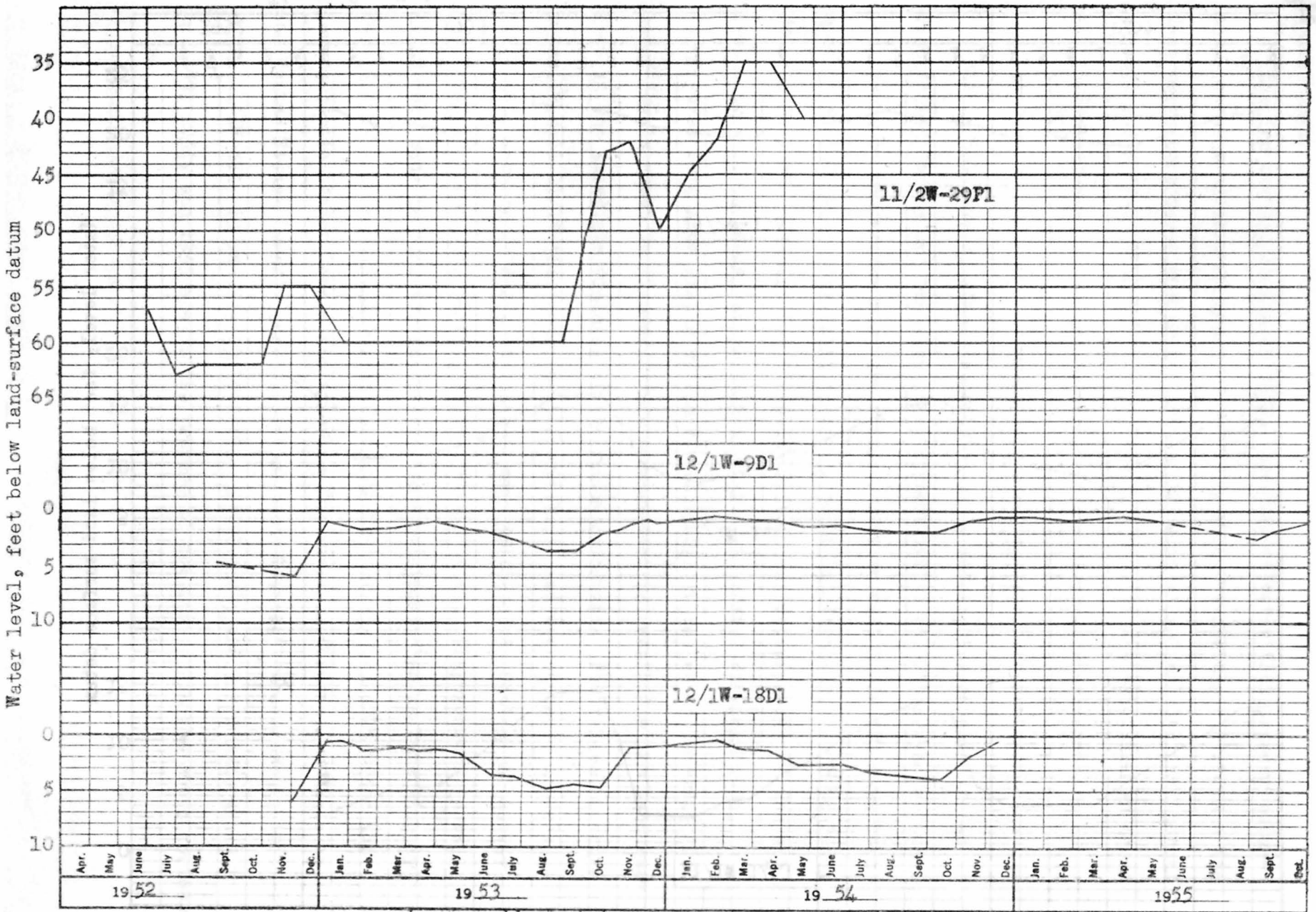

Figure 3.--Hydrographs showing fluctuations of water levels in observation wells.

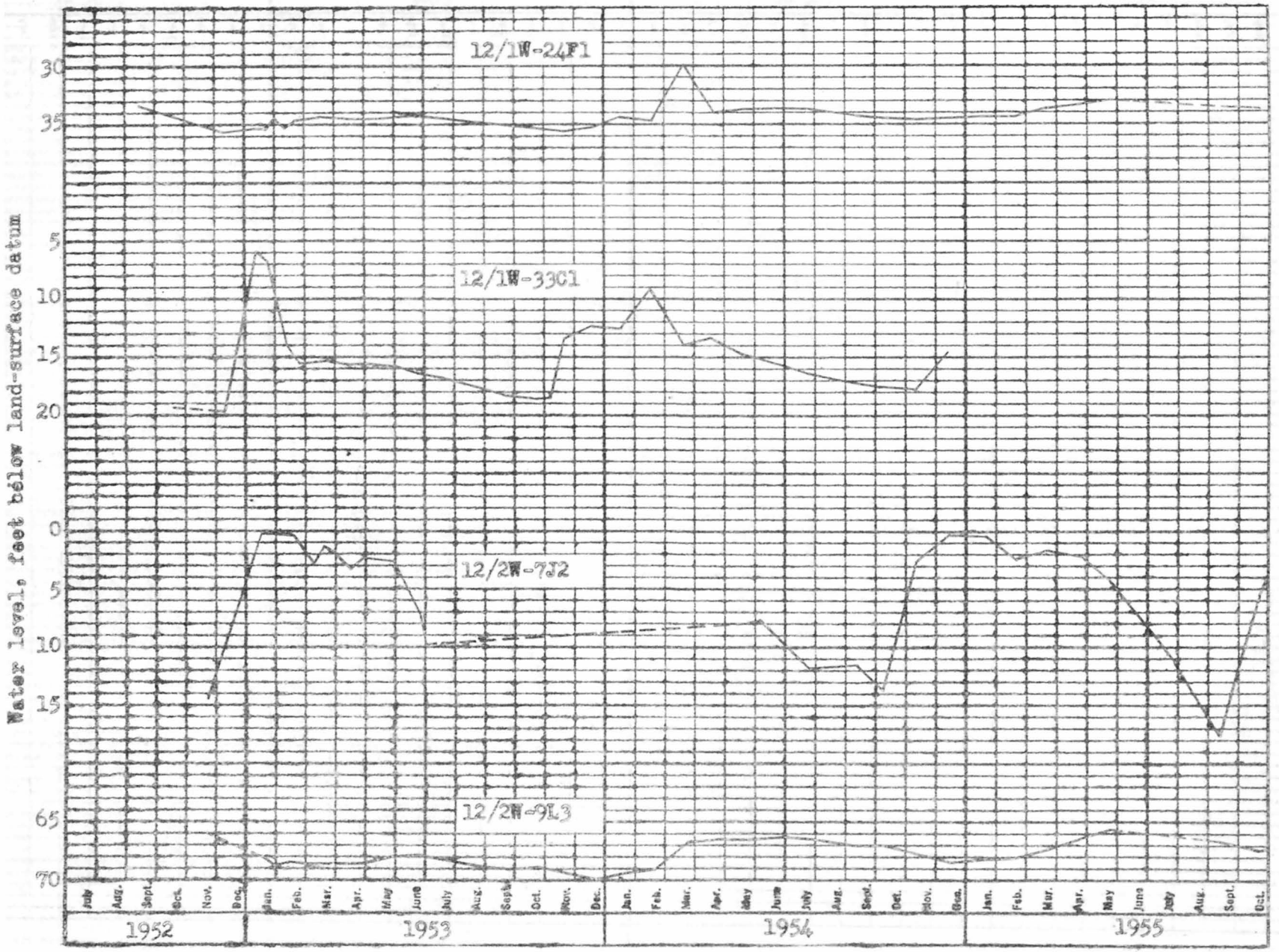

Figure 4.--Hydrographs showing fluctuations of water levels in observation wells.

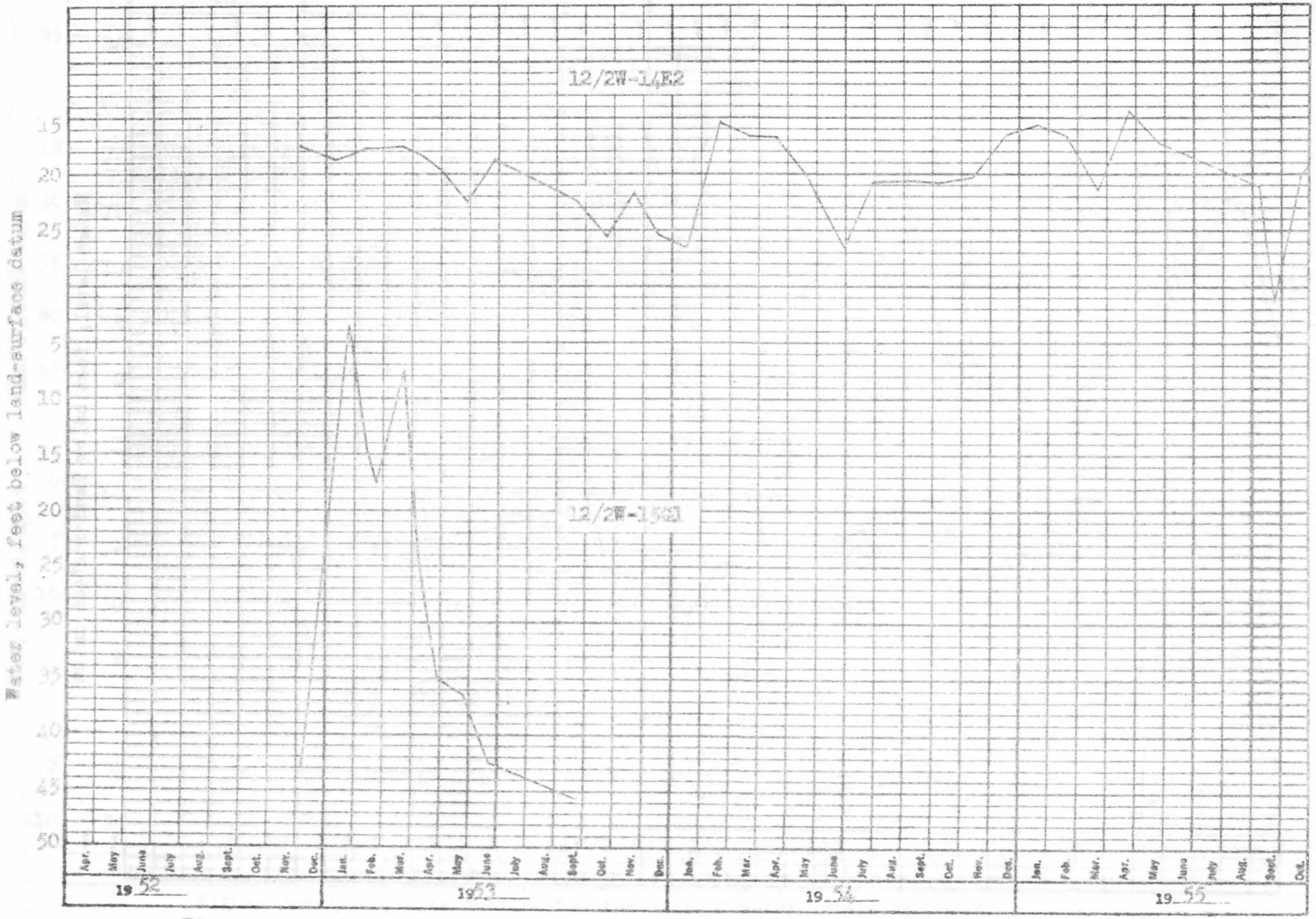

Figure 5.--Hydrographs showing fluctuations of water levels in observation wells.

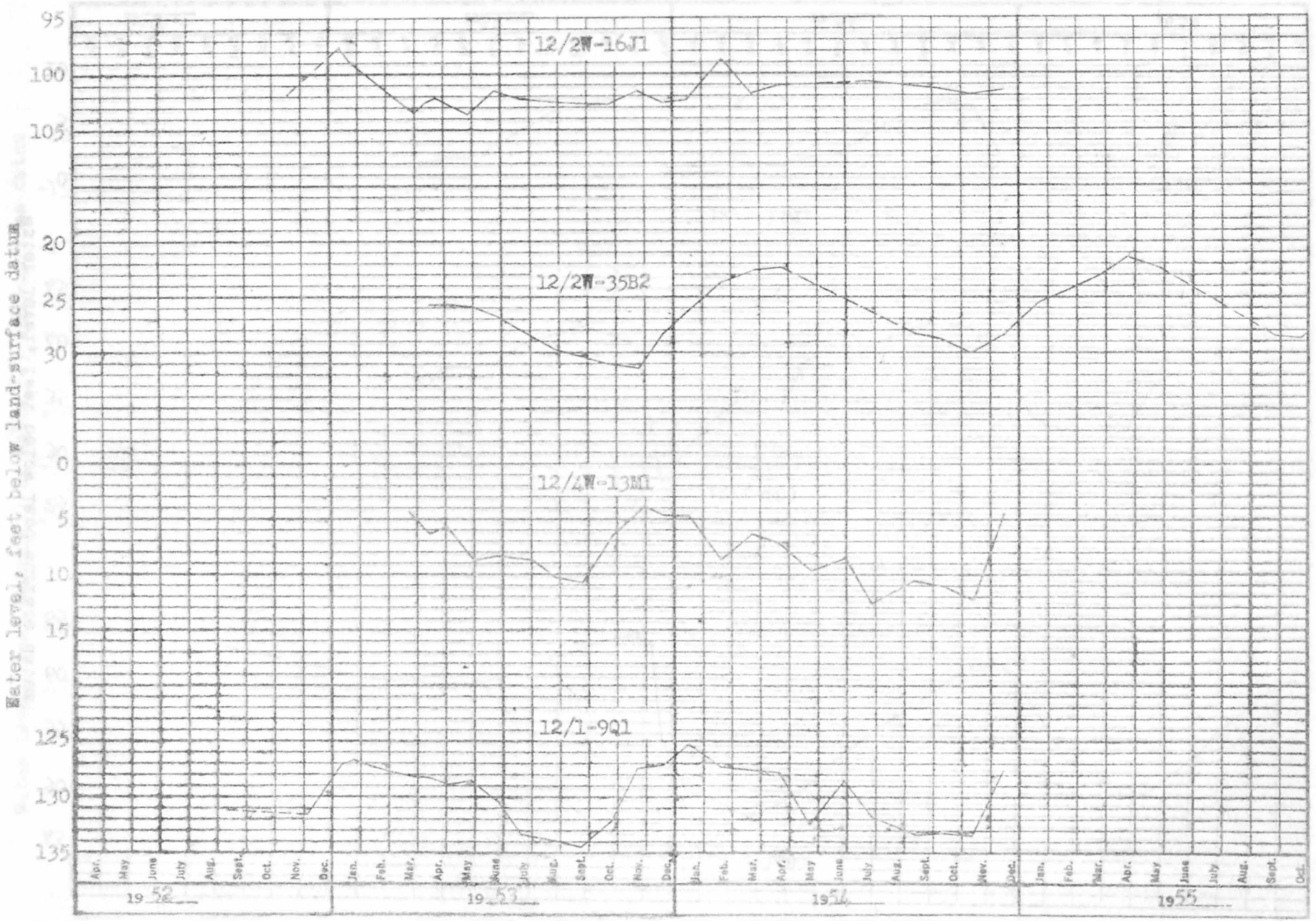

Figure 6.— Hydrographs showing fluctuations of water levels in observation wells.

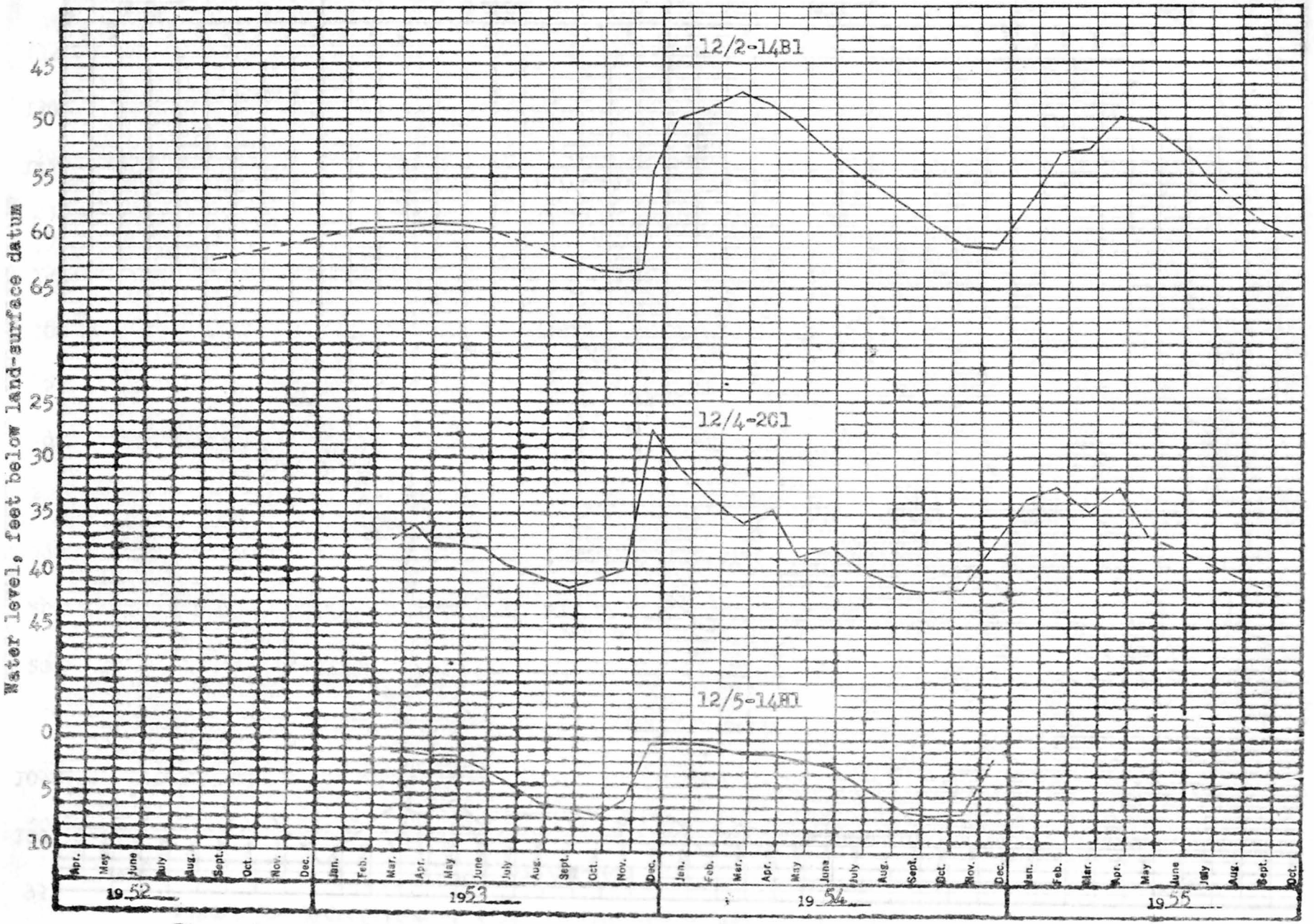

Figure 7.-- Hydrographs showing fluctuations of water levels in observation wells.

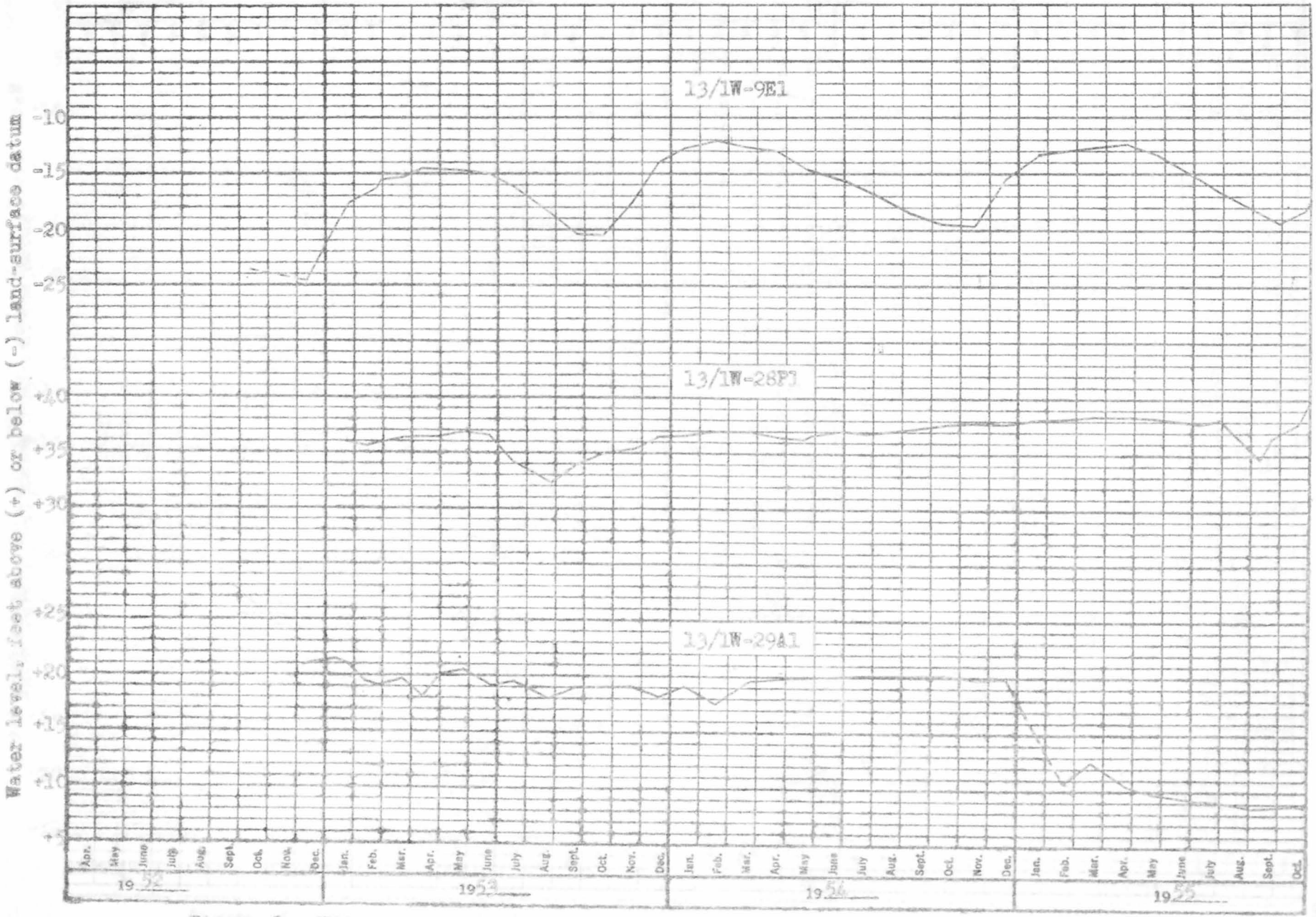

Figure 8.--Hydrographs showing fluctuations of the water levels in observation wells.

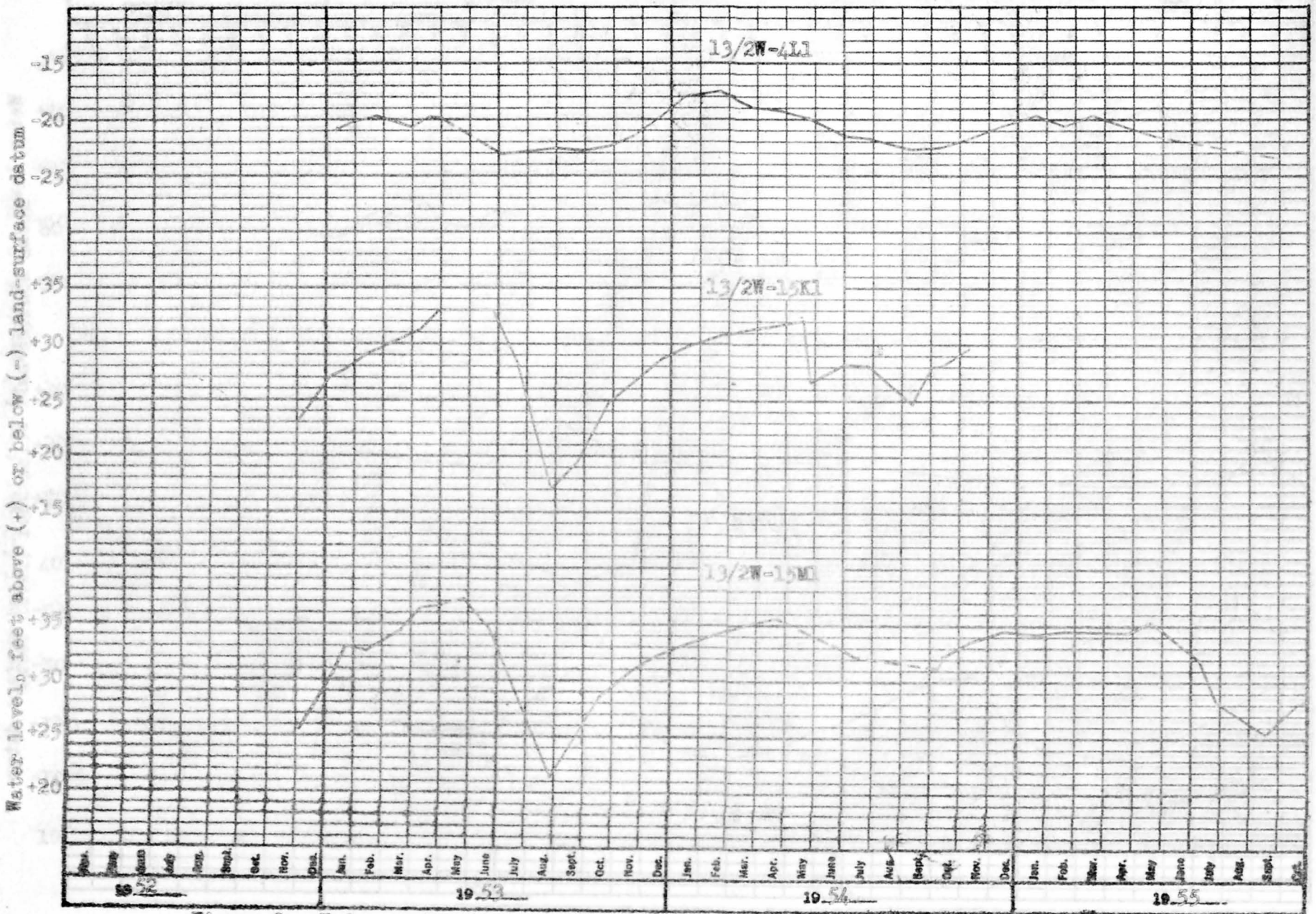

Figure 9.--Hydrographs showing fluctuations of the water levels in observation wells.

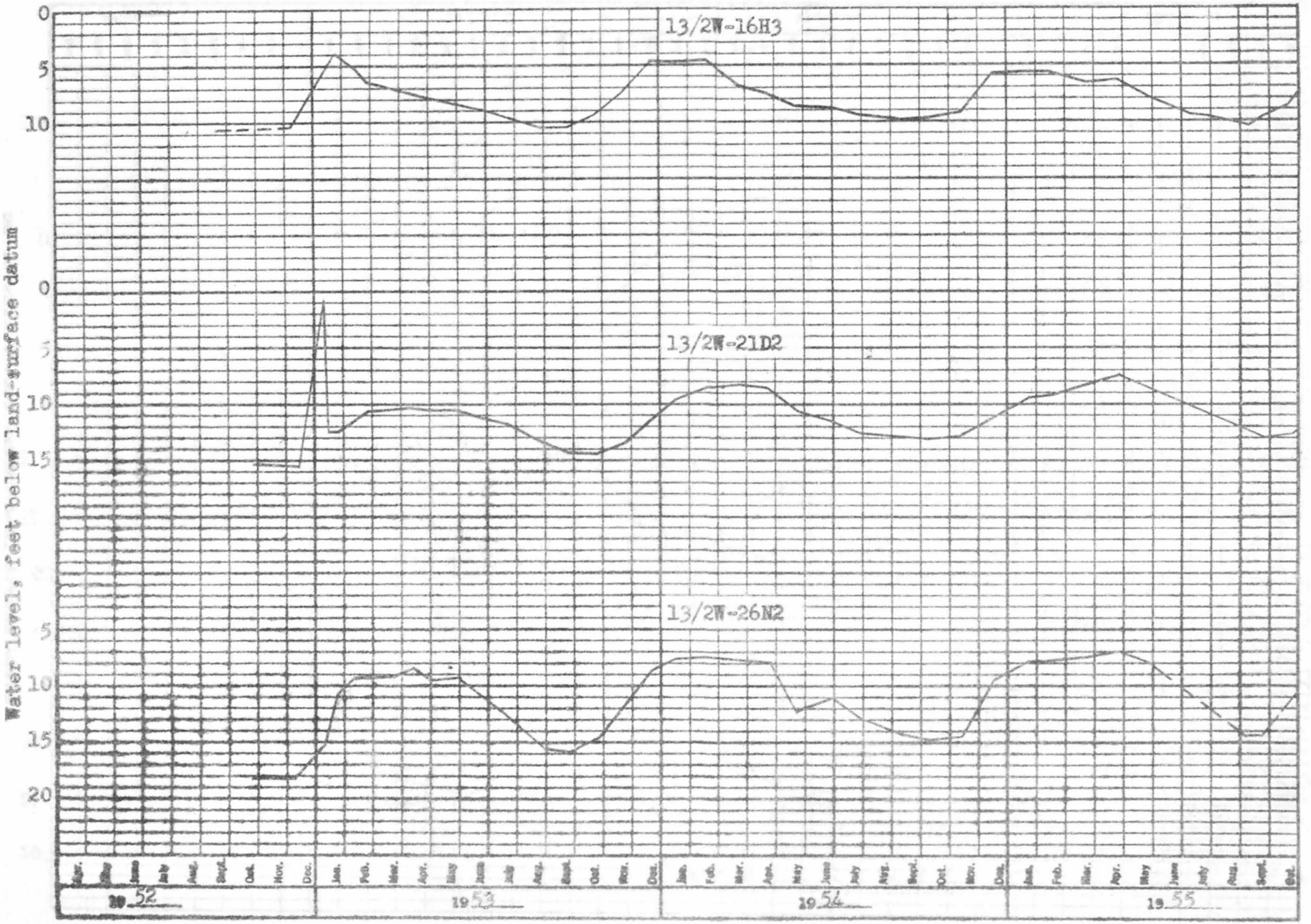

Figure 10.--Hydrographs showing fluctuations of the water levels in observation wells.

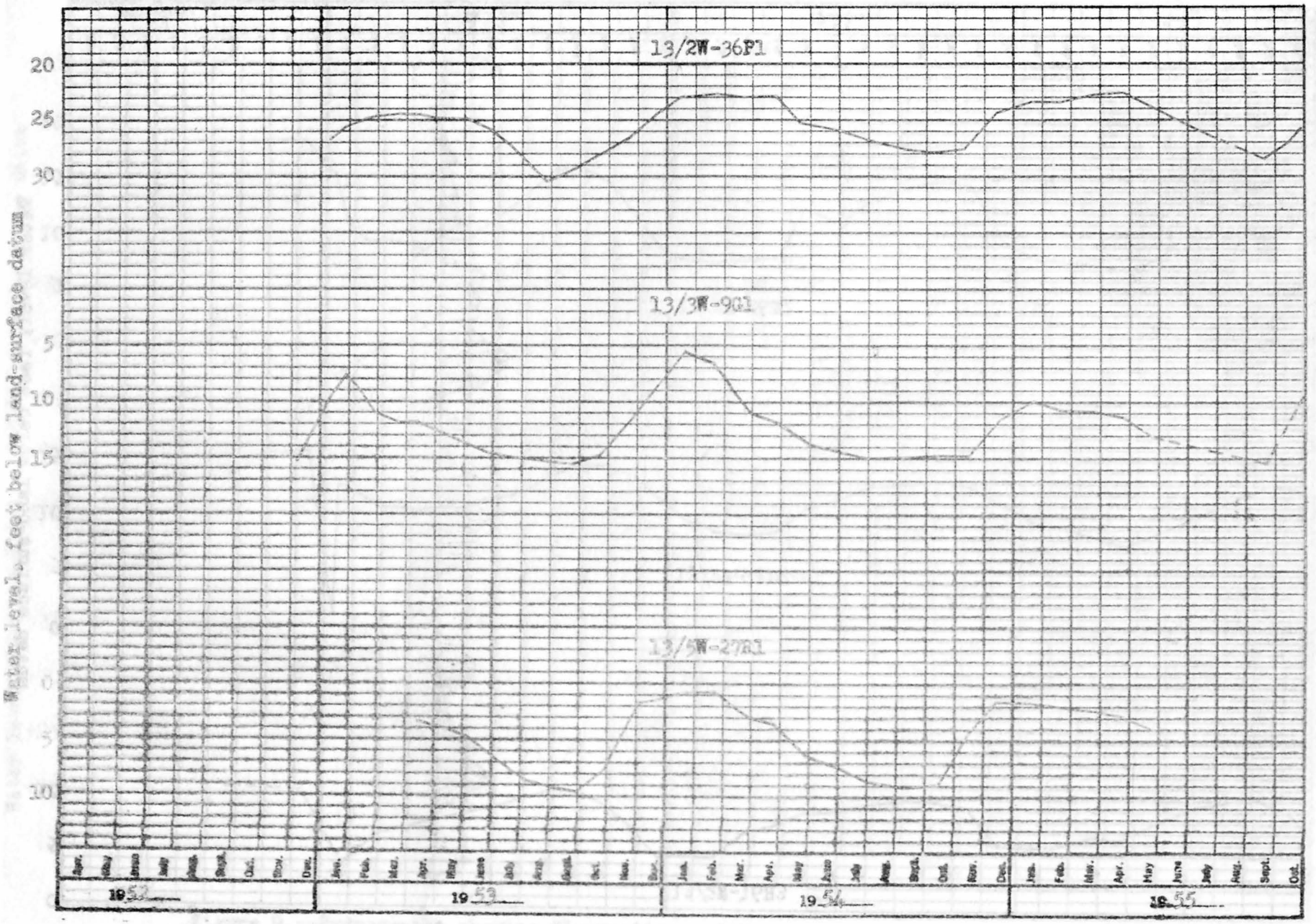

Figure 11.--Hydrographs showing fluctuations of the water levels in observation wells.

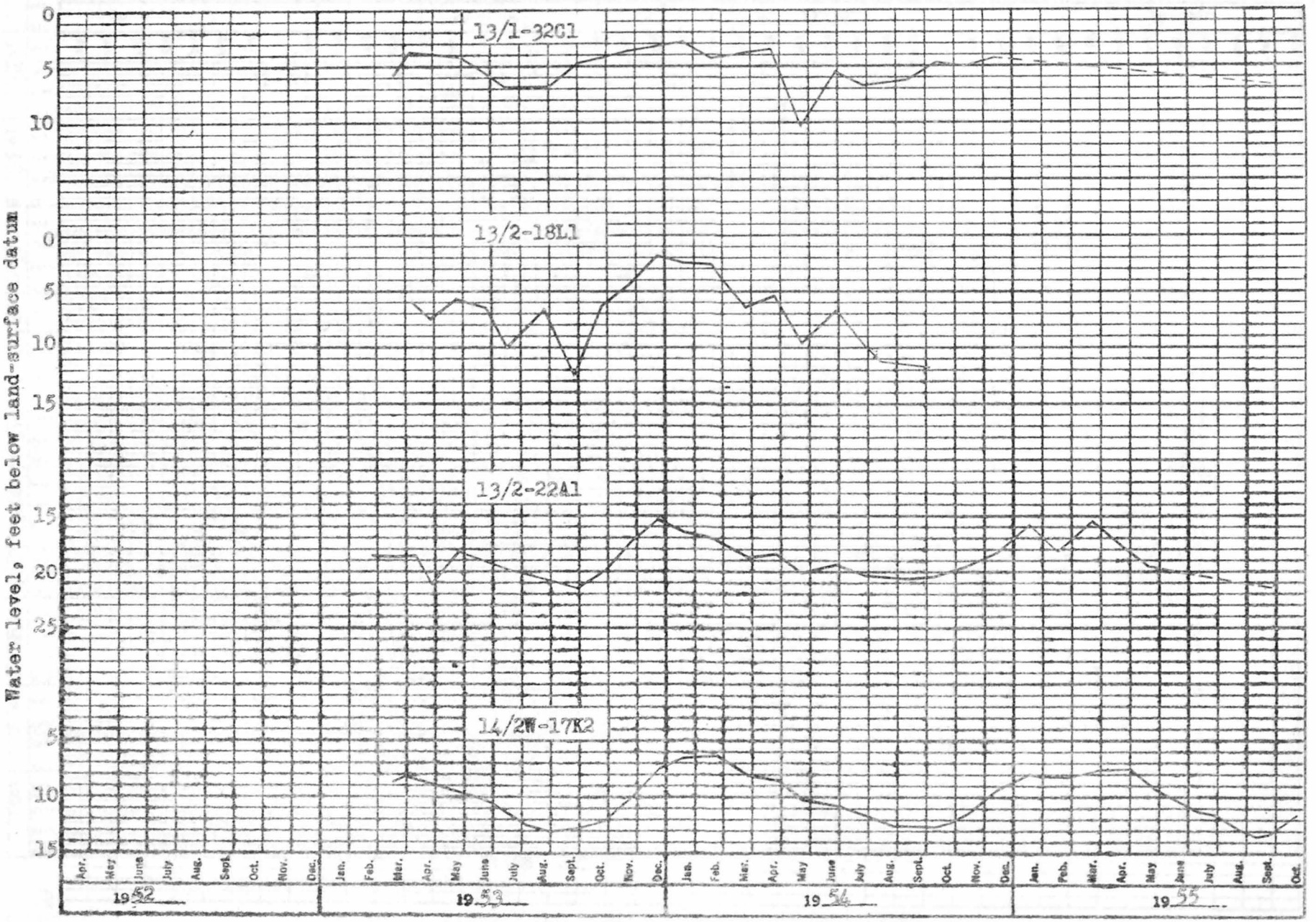

Figure 12.--Hydrographs showing fluctuations of the water levels in observation wells.

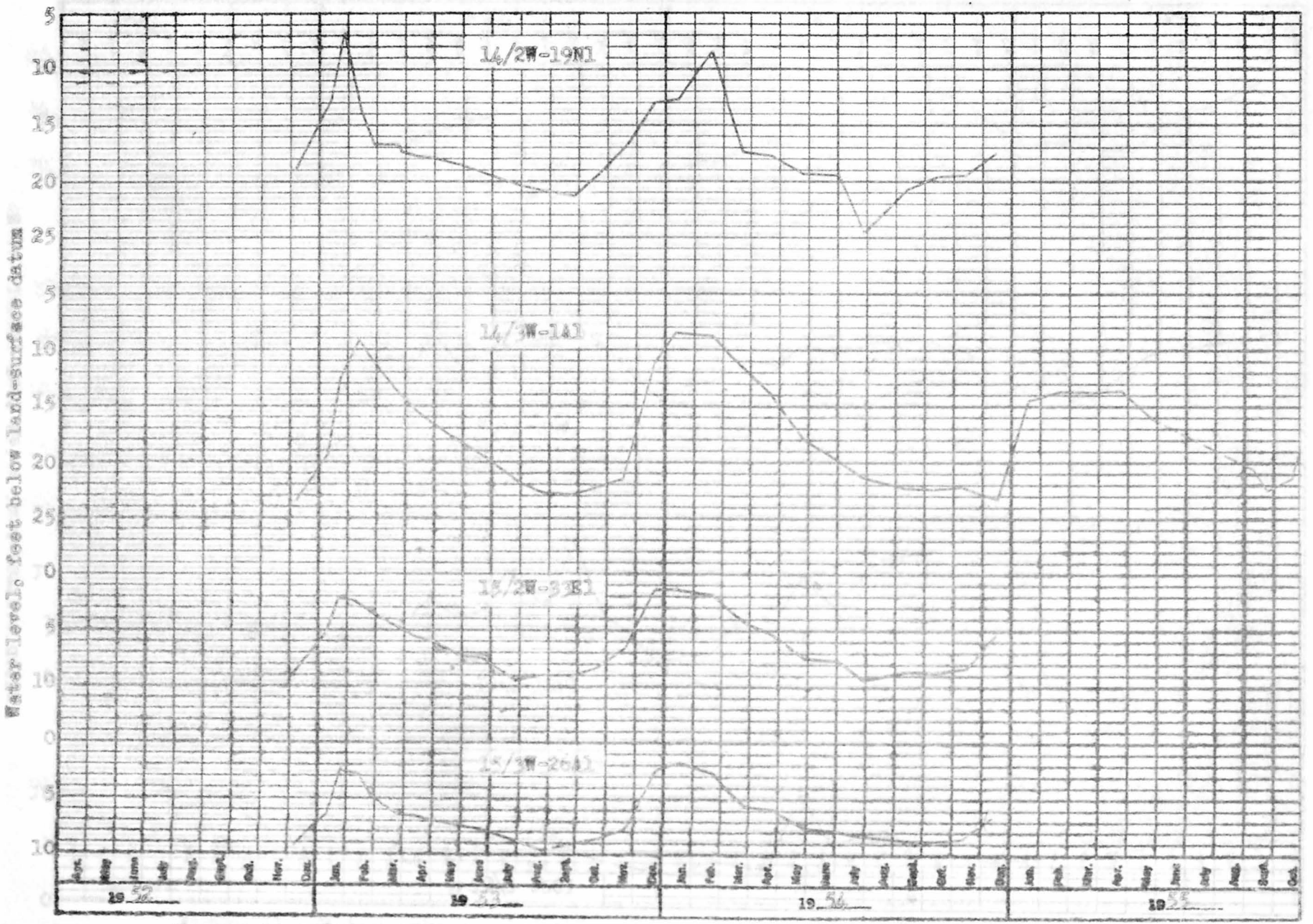

Figure 13.--Hydrographs showing fluctuations of the water levels in observation wells.

Figure 14.--Hydrographs showing fluctuations of the water levels in observation wells.

Table 2.--Records of representative wells
(Location of wells are shown

Topography and approximate altitutes: H_Q hill; T_Q terrace bench; U, upland surface; V, valley. Altitude of land-surface datum at well interpolated from topographic maps.

Type of well: Bd, bored; Dg, dug; Dn, driven; Dr, drilled; J, jetted

Depths and water levels: Measurements expressed in feet and decimal parts of feet were made by the Geological Survey; those in whole feet were reported by the owner, tenant, or driller. If the Static head of a flowing well is known a "+" precedes the water level and indicates the static head in feet above land-surface datum; if the static head is not known the water level is indicated by "Flow". The letter "R" preceding the water level indicates the water level was reported

Well number	Owner or tenant	Topography and approximate altitude	Type of well	Depth of well (feet)	Diameter of well (inches)	Depth of casing (feet)	Water-bearing	
							Depth to top (feet)	Thickness (feet)
T. 11 N., R. 1 W.								
1D1	Frank Linwood	T, 260	Dg	12.8	36	4	10	2
2C1	O. J. Steele	T, 247	Dg	17.3	36	..	..	..
2G1	John Hefley	T, 218	Dg	14.9	24	15	15	..
2H1	Joe Mathews	T, 240	Dg	17.8	48	2	..	..
4A1	Frank Chromey	T, 360	Dg	61.5	72-48	4	..	..
4D1	Albert Kletsch	T, 342	Dg-Dr	75.2	6	75	..	..

in Lewis County, Washington
on plates 1A, 1B, and 1C)

Type of pump: B, bucket; C, centrifugal (large); F, Flow; G, gravity flow; J, jet (deep-well type); L, lift; N, none; P, piston (deep-well type); S, suction (jet, piston, gear or small centrifugal); Sb, submersible, T, turbine. Electrically operated unless specified as H, hand-operated; W, wind-operated.

Use of well: C, commercial; D, domestic; De, destroyed; Ind, industrial; Inst, institutional; Irr, irrigation; NU, not in use; PS public supply; RR, railroad; S, stock.

Remarks: A, chemical analysis (see table 4); Ft, field test for chemical quality (see table 5); dd, drawdown, gpm, gallons per minute; H, hydrograph; gpd, gallons per day; hr, hour(s); L, log (see table 2); min, minute(s); ppm, parts per million; Temp, temperature in degrees Fahrenheit. Remarks on the adequacy and dependability of water supply, general quality of water, and materials penetrated are reported by owners, tenants, drillers, and others.

zone(s)	Water level		Type of pump and horsepower	Use of water	Remarks
Character of material	Feet below land-surface datum	Date			
Gravel, fine	5.6	2-25-53	S	D	Blue-gray siltstone outcrops 600 ft away. L, FT.
..	1.8	. .do. .	S	D,S	Rapid recovery. Can be pumped dry in summer.
"Sandstone"	7.4	. .do. .	S, ½	D	FT.
Cobbles and boulders, cemented	8.8	. .do. .	S	D,S	Rapid recovery. FT
Gravel, cobbles and boulders, cemented	51.2	. .do. .	J,1	..	Supply inadequate late summer and fall. Slow recovery.
..	41.3	. .do. .	J,1	D	Well drilled in 45-ft dug well. Water level same in both wells, 2-25-53. FT.

Wells in Lewis County, Washington--Con.

Well no.	Owner or tenant	Topography Altitude (feet)	Type of well	Depth of well (feet)	Diameter of well (inches)	Depth of casing (feet)	Water-bearing zone(s) Depth to top (feet)	Water-bearing zone(s) Thickness (feet)	Character of material	Water level Below datum (feet)	Water level Date	Pump, type H. P.	Use	Remarks
	T. 11 N., R. 1 W.--Con.													
4D1	Albert Kletsch	T. 342	Dg-Dr	75.2	6	75	..	..	..	41.3	2-25-53	J. 1	D	Well drilled in 45-ft dug well. Water level same in both wells 2-25-53. FT
4D2	William Raupp	T. 347	Dg	46.0	54	3.5	..	..	..	42.4	.. do. ..	J. 1	D. S	Pumped 1 to 2 min when water level measured. Supply inadequate in late summer.
4G1	Robert Herren	T. 345	Dg	60	60	5	..	..	Gravel and cobbles, cemented	R-56	..	J. ½	D. S	Iron in water. Slightly muddy after heavy rain.
5A1	Anton Brunner	T. 338	Dg	36.6	42	4	..	..	..	32.3	2-13-53	J. 1	D. S	Rapid recovery. FT
5H1	Mrs. Joseph Sommer	T. 340	Dg	46	48	..	38	8+	Sand, tight enough not to cave	33.1	2- 6-42	L. ½	D. S. O	Deeply weathered material above sand. L.
5H2	A. C. Grove	T. 340	Dg	55	36	..	..	..	Gravel, cobbles, and boulders, cemented	R-52	..	..	D	Adequate supply.
5H3	James Alvard	T. 340	Dg	52	42	4	..	..	Gravel and cobbles, cemented	R-45	10- -52	J.	D	Rapid recovery.
5H4	A. W. Peterson	T. 342	Dr	70	6	65	68	2+	Gravel	R-32	8- -50	J. ¾	D	Pumped steadily 15 hr. L.
5K1	Ranch Motel	T. 322	Dg	47	48 by 48	6	..	..	Gravel, cemented	R-44	..	J. ¾	C	Adequate supply, pumps dry quickly. Cemented gravel entire depth.
5K2	S. H. Woody	T. 325	Dg	42.9	48	12	..	..	Sand and gravel	37.2	10-22-54	J. ½	D. S	Water level fairly constant. Dug down to fine gray "sandstone". Oil on water when drilled.
5N1	A. M. Drown	T. 325	Dg	43.9	48	6	..	..	Gravel and sand	39.7	8-14-53	J. ½	D. S	FT Temp 54. Second well, windmill separated. 39.6 ft deep. 1200 ft away.
5P1	Byron Ackley	T. 320	Dg	39.1	48 by 48	10	37	3+	Sand and gravel	35	8-17-53	J. 1½	D	Cemented gravel to 37 ft. Temp 55.
6D1	Latter Day Saints Church	R. 302	Dr	201	6	201	201	..	Sand	R- 6	Spring 1955	J. ¾	..	L, FT, Temp 52.
6K1	Ed Fleischmann	T. 318	Dg	30	48	6	..	..	Gravel	R-27	..	J. ¾	D. S	Gravel to 25 ft, sand to 28 ft, gravel to 30 ft. Iron in water.

Table 1.--Records of representative wells in Lewis County, Washington--Con.

Well no.	Owner or tenant	Topography Altitude (feet)	Type of well	Depth of well (feet)	Diameter of well (inches)	Depth of casing (feet)	Water-bearing Depth to top (feet)	Water-bearing Thickness (feet)	Character of material	Water level Below datum (feet)	Water level Date	Pump, type H. P.	Use	Remarks
	T. 11 N., R. 1 W.--Con.													
7E1	C. Sorenson	T. 295	Dg	45.4	48	6	..	..	Gravel	41.2	8-14-53	J, ½	D, S	Adequate supply.
8D1	Floyd Henriot	T. 325	Dg	55	84	7	..	..	Gravel, "river-bed"	R-48	..	J, ¾	D	Pumps dry in 1 day at 4 gpm.
8E1	M. Collier	T. 275	Dr	40	6(?)	40	20±	20+	Sand and gravel	R-20	..	J, 1½	..	Bailed 20 to 30 gpm. Report 5 to 10 ft of sticky white clay above gravel and sand.
8E2	Town of Toledo	T. 240	Dr	79	8	79	58 74	14 4	Sand, blue-gray Sand, gray	R- 2	8-25-53	..	..	Pumped 6 hr at 125 gpm, dd 26 ft. L, A, Temp 53.
8R1	E. G. Berlin	V. 110	Dg-Dn	26	24-1¼	18-26	5	21+	Gravel	..	..	S, ½	D	Sand from 0 to 5 ft.
9J1	E. F. Boone	V. 118	Dr	45.3	6	45	4	38	Sand	12.8	8- 5-53	J, 1	D, S	Flowed 1 day when drilled. L, Temp 53.
9K1	W. L. Jones	V. 115	Dn	22	1¼	22	..	..	..	..	..	S, ¼	D	Bottom 3 to 4 ft hard (gravel?) Two springs nearby near base of hill.
9L1	F. E. Forman	V. 110	Dr	38.8	8	40	33	5	Gravel "pea"	12.4	2-18-55	..	D,Irr	Pumped 100 gpm, dd 13 ft. L.
9M1	A. G. Westergard	V. 110	Dr	21.7	6	25	7	25	Sand and gravel	7.0	. .do. .	..	..	Bailed 20 gpm. Upper 6 ft sand. Casing perforated 20 to 25 ft.
9P1	H. L. Mackey	V. 118	Dn	18	1¼	..	..	..	..	..	..	S, ¾	D,Irr	Pumped 9 hr with little pressure loss.
10M1	Layton Prairie Schoolhouse	T. 227	Dr	137	4	137(?)	..	..	..	37.5	11-10-54	P, H	NU	"Swamp water" at 30 ft, blue clay most of way.
10P1	James Taylor	T. 227	Dg	21.3	56 by 56	5	..	..	Gravel	17.8	8-5-53	½	D, S	Went dry in fall of 1952.
11M1	Ted Ziegler	T. 285	Dr	75	6	75	..	..	..	..	..	J, ½	D	Have pumped 16 hr steadily.
12E1	C. E. Hurst	T. 308	Dg	41.4	45 by 54	0	..	..	Gravel	38.2	8-4-54	N	NU	Cemented gravel entire depth.
12K1	E. J. Smith	T. 318	Dr	86	8	76	75	11+	Gravel, "pea" and sand	R-40	..	J, ½	D, S	Adequate supply. L.
12P2	C. E. Nixon	T. 313	Dg-Dr	60	8	60	..	..	..	R-20	Spring 1952	J, ½	D,Irr	Water level fairly constant.
13B1	Henry Armstrong	T. 303	Dg	33	48	2	..	..	Gravel, cemented	R-12	8-11-53	J, ½	D, S	Water hard for week or two in fall when level begins to rise.

Table 1.--Records of representative wells in Lewis County, Washington--Con.

Well no.	Owner or tenant	Topography Altitude (feet)	Type of well	Depth of well (feet)	Diameter of well (inches)	Depth of casing (feet)	Water-bearing Depth to top (feet)	Water-bearing Thickness (feet)	Character of material	Water level Below datum (feet)	Water level Date	Pump, type H. P.	Use	Remarks
	T. 11 N., R. 1 W.--Con.													
13G1	E. P. Layton	T. 304	Dg	33.2	36	..	..	..	Gravel	28.7	10-16-52	J. ½	D. S	Report 1½ ft of sand part way down, rest gravel.
13M1	Mrs. George Olson	T. 289	Dg-Dr	48	6	48	..	..	. . . .do. . . .	R 8	Fall 1946	S. ½	D. S	Adequate supply.
14G1	J. L. Vickars	T. 282	Dr	33	7	33	30	4+	Gravel, fine	R 25	8- -52	J. ¾	D	Drilled through 30 ft of reddish clay and "rocks".
14K1	Clark Blair	T. 280	Dr	54.8	6	55	..	..	Gravel and sand	11.6	8- 6-53	J. ½	D. S	Sand near bottom. FT
14L1	Harvey Daniels	T. 280	Dg	17.7	14	..	..	..	..	12.3	8-26-53	N	O	H
14L2	. . . .do. . . .	T. 280	Dr	57.3	6	58	..	..	Gravel	14.6	. .do. .	J. ½	D.Irr O	Bailed 20 gpm. H. A. FT.
15G1	E. E. Stone	T. 240	Dr	113	6	62	..	..	..	R 9	..	Sb. ½	D. S	Water enters well at 32 ft and 100 ft. Little seasonal change in water level. Blue clay encountered. FT.
15G1	James Reese	T. 270	Dr	56	6	56	..	..	..	R-27	8- -51	J. ½	D	Water red when stands, doesn't stain clothes. Oil film on water.
15H1	Walter Williams	T. 273	Dg-Dn	30+	5-4	30+	..	..	..	..	..	H	D	Dug 30 ft, driven deeper. Oil in water from below 30 ft.
16E1	B. Blair	T. 215	Dr	53	6	52	40	..	Gravel	R-35	6- -53	J. 2½	D	Upper 13 ft red clay. Yield 17 gpm±.
16E2	Guy Bowan	T. 213	Dr	156	6	156	52	3	Gravel, cemented	39.0	8-10-53	J. 1	D	Blue clay from 55 to 156 ft. FT. L.
16H1	Ernest Cooper	T. 240	Dr	35.8	7	35½	36	..	Gravel, loose	R-14	2-11-52	J	D	Iron in water when fall rains set in in 1952(when well 29 ft deep.) L. Temp 50½.
16P1	--Stevenson	T. 220	Dg	22.5	..	10	..	..	Sand(?)	14.6	8- 7-53	S. ½	D	Well in gravel; sand near bottom.
16P2	. . . .do. . . .	T. 225	Dr	36	6	36	..	..	Gravel, fine	R-16	10- -52	S. ½	..	FT. Temp 53.
16P3	--Norman	T. 230	Dg	15.7	..	10	..	..	Gravel	11.3	8- 7-53	S. ½	D	Yellow clay above gravel. Well pumps out 3 to 4 hr. Temp 54.
16R1	--Cooper	T. 245	Dg	30.6	45-52	6	..	..	..	20.7	.. .do. .	S. H	D	FT. Temp 52.

Table 1.--Records of representative wells in Lewis County, Washington--Con.

Well no.	Owner or tenant	Topography Altitude (feet)	Type of well	Depth of well (feet)	Diameter of well (inches)	Depth of casing (feet)	Water-bearing Depth to top (feet)	Water-bearing Thickness (feet)	Geologic source(s) Character of material	Water level Below datum (feet)	Water level Date	Pump, type H. P.	Use	Remarks
	T. 11 N., R. 1 W.--Con.													
17A1	H. M. Shepardson	V, 110	Dr	40	6	40	..	..	Gravel	R-16	..	J. ½	D. S Irr	Report yield 5± gpm. L.
17E1	Newton Inman	V, 105	Dn	22	..	..	22	..	.... do.	..	..	S. ½	D	Better water at 22 ft; water at 10 to 11 ft muddy, "irony"; often smells and tastes bad. Report earthquake in 1949 lowered water table 3 ft.
17L1	William Wight	V, 100	Dn	25	1½	25	..	..	.... do.	..	..	S. ¾	D. S	Iron taste and rust in water.
17L2	Rudolf Klein	V, 105	Dr	235	6	235	..	..	Shale	R- 0	..	N	NU	Little water, salty. Driller hit gas, well buried. L.
18B1	B. J. Dearing	T, 200	Dg	21.2	22	21	..	..	Gravel	19.1	8-14-53	S. ½	D	Easily pumped dry; iron in water. Temp 53.
20D1	Joe Perniconi	V, 98	Dn	25	¾	..	..	..	..	R-10	..	S. ½	..	Garden use. Iron in water.
20M1	L. Cunningham	T, 203	Dr	70	6	70	57	13	Gravel	R-57	..	J. ¼	D. S	Water level fairly constant. Temp 52. L.
20N1	Iris Ballard	T, 207	Dg	55.4	32	25	..	..	.... do.	54.2	8-12-53	P. H	D	Water level remains 1½ to 2½ ft from bottom of well. FT Temp 54.
21D1	N. A. Kent	T, 220	Dr	175	6	165	..	..	..	R-10-12	10- -53	N	NU	Inflammable gas encountered in drilling. L.
21F1	.... do.	T, 240	Dg	35	..	0	..	..	Gravel	R-25	4- -51	S. ½	D. S	Supply usually adequate.
21G1	Otto Nielsen	T, 245	Dg	25.3	72	6(?)	..	..	Gravel(?)	21.2	8- 7-53	S. ¼	D. S	Water occasionally blackens sink.
22A1	-- Kalich	T, 267	Dg	17.8	36 by 43	17(?)	..	..	..	5.1	8- 6-53	S	D	Temp 54.
22K1	J. H. Washburn	T, 260	Dg	20.3	30 by 30	4	14	6+	Gravel, cemented	14	8-11-53	S. ½	D. S	Temp 55.
22M1	R. G. Gries	T, 242	Dg	31.2	34	30	..	..	..	26.0	8- 7-53	J. 1	D	Supply usually adequate.
28A1	R. M. Martin	T, 251	Dg	22	48 by 48	6	..	..	Gravel	R-6	..	S. ½	D. S	Water hard. "irony", "minerally".
29B1	Kenneth William	T, 221	Dg	36.7	36 by 48	15	..	..	Gravel, cemented	32.8	8-12-53	P. ½	D	Upper 10 to 12 ft dug in yellow clay.

Table 1.--Records of representative wells in Lewis County, Washington--Con.

Well no.	Owner or tenant	Topography Altitude (feet)	Type of well	Depth of well (feet)	Diameter of well (inches)	Depth of casing (feet)	Water-bearing Depth to top (feet)	Water-bearing Thickness (feet)	Character of material	Water level Below datum (feet)	Water level Date	Pump, type H. P.	Use	Remarks
	T. 11 N., R. 1 W.--Con.													
29D1	James Allon	T. 214	Dr	48	4	48	42	6+	Gravel and sand	R-41	..	J. ½	D. S	L.
29E1	--Cornell	T. 216	Dr	40	6	40	..	..	..	..	..	½	D	Occasionally goes dry in late summer. Water hard.
29G1	Ellen Wolcott	T. 220	Dg	30	30?	30	29	1+	Gravel, fine and sand	27.5	8-11-53	J. ¾	D. S	Upper 29 ft cemented gravel. Report plenty of water.
29M1	J. T. Williams	T. 219	Dg	38.5	26 by 51	10	..	..	Gravel	34.9	8-13-53	J. ½	D. S	Well goes dry in fall. Some iron in water. FT. Temp 54.
29P1	L. J. Withrow	T. 232	Dg	24.3	30	28	..	..	. . . .do. . . .	18.5	..do. .	S. ½	D. S	Iron in water. Temp 53
30D1	Daniel Rajala	T. 183	Dg	30	..	30	..	..	Gravel (?)	R-27	..	S. ½	D. S	
30E1	F. S. Yankis	T. 195	Dg	28	..	28	25	..	Gravel	R-23	..	J. 1	D. S	Upper 25 ft mostly clay. Report water level never above 20 ft.
30M1	John Young	T. 200	Dg	26.4	10	26	..	..	..	20.9	8-14-54	S. ½	D. S	FT. Temp 54.
30R1	George Ayre	T. 221	Dr	27	6	..	..	..	..	..	..	..	D	Water oily and yellow in winter. Stains clothes yellow. Temp 56.
30R2	M. A. Turners	T. 219	Dr	45	6	45	..	..	Gravel	..	..	J. ½	D. S	Water at 27 and 40 ft. Iron in water, more so with rain.
31C1	--McElhenny	T. 212	Dg	18	..	0	..	..	. . . .do. . . .	..	..	S. ½	D. S	fall of Well went dry in 1952. Blue clay and fossils on hillside 50 ft above house.
32M1	E. E. Hanks	V. 280	Dg	12.0	40 by 40	13	..	..	Sand and clay	10.4	8-12-53	S. 1	D	Temp 53
	T. 11 N., R. 2 W.													
1A1	E. E. Dorothy	T. 303	Dg	30	48	5	..	..	..	R-25	..	J. ½	D. S	Rapid recovery.
1A2	H. B. Eddy	T. 303	Dg	22.2	48	7	20	6	Gravel, partially cemented	18.6	2-13-53	J	D	Rapid recovery. FT. Temp 50.
2E1	Chris Christensen	U. 468	Dg	70	..	0	..	..	Clayey material	..	..	P. ½	D	Well easily pumped dry. Lowest water level in December and January.
2E2	. . . . do	U. 460	Dr	146	6	146	..	..	Gravel	50.3	9-22-55	Sb. ½	D. Irr	Cased off red water at 122 ft. Bailed 12 hr, dd 2 ft. Springs 100 ft lower on scarp to east.

Table 1.--Records of representative wells in Lewis County, Washington--Con.

Well no.	Owner or tenant	Topography Altitude (feet)	Type of well	Depth of well (feet)	Diameter of well (inches)	Depth of casing (feet)	Water-bearing zone(s) Depth to top (feet)	Water-bearing zone(s) Thickness (feet)	Character of material	Water level Below datum (feet)	Water level Date	Pump, type H. P.	Use	Remarks
	T.11 N., R. 2 W.--Con.													
2J1	H. Clark	T. 308	Dg	37	36	18	..	..	Gravel	R-34½	..	J. ½	D	Well easily pumped dry. Some iron in water. Springs on slope to north.
3H1	J. F. Roth	U. 408	Dg	36.0	46 by 46	15	..	..	. . . .do. . . .	26.3	8-20-53	J. ¾	D. S	Brown precipitation in water. Temp 53.
3R1	W. D. Capps	U. 405	Dg	59.3	..	5	..	..	..	52.3	. .do. .	J. ½	D	Rust in water. FT. Temp 54.
4A1	Ire Reinseth	U. 450	Dg	97.7	48	6	86	12+	Gravel and sand	87.6	. .do. .	P. ¾	D. S	Rust in water. FT. Temp 52.
4M1	Alvin Putzier	H. 400	Dr	115	6	104	..	..	..	..	..	J. 1	..	Rust in water. Oil film on standing water.
4R1	Joe Lewis	U. 436	Dg	58.4	40 by 40	5+	..	..	..	56.2	8-20-53	P. ½	D. S	Temp 53.
5A1	Curtiss Bowan	V. 258	Dr	217	6	176	..	..	..	R-Flows	Normally	S. ½	C	Yellow stain from water. Water whitens pipe.
5C1	J. L. Brewer	H. 280	Dr	300+	6	..	..	..	..	R-12-14	1945	J. 1	D	Has pumped water level down more than 85 ft.
5D1	Riste Hakala	H. 250	Dr	50	8	50	..	..	Sand or siltstone	R-26	1947±	J. ½	D	Much iron in water. Pumped 5 gpm. 24 ft dd.
5E1	Joe Hakala	U. 435	Dg	49	36	49	..	..	Clayey material	R-45	..	J. ½	D	Iron in water.
5K1	C. Baxter	V. 240	Dg	22	36	..	..	..	..	..	..	..	D	Supply limited. Much iron in water; not potable in summer.
5N1	Joe Cunningham	U. 408	Dg	55	..	6	..	..	Sand (?)	..	..	P. ¾	D. S	Has pumped 24 hr steadily. brown stain from water.
6G1	S. E. Guiberson	H. 680	Dr	280	6	..	..	..	..	..	..	Sb. ½	D	Pump set at 210 ft. Pumps dry in ½ hr. Brown stain from water.
6J1	Roger Ryan	U. 460	Dg	68	60	4	..	..	Clay	R-50	(after pumping 6 hr) 8-22-53	P. ½	D. S	Has never been pumped dry. Brown stain from water.

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Well no.	Owner or tenant	Topography Altitude (feet)	Type of well	Depth of well (feet)	Diameter of well (inches)	Depth of casing (feet)	Water-bearing Depth to top (feet)	Water-bearing Thickness (feet)	Character of material	Water level Below datum (feet)	Water level Date	Pump, type H. P.	Use	Remarks
	T. 11 N., R. 2 W.--Con.													
6P1	Charles Beardsly	H. 560	Dr	116.8	6	150	..	..	..	71.7	8-28-53	Sb. ½	D	Originally 250 ft deep. Odd odor, iron stain from water. Temp 53.
7H1	W. Marsyla	H. 400	Dg	34.8	60	36	30	6+	Sand, white	29.2	8-27-53	P. ¾	..	Yellow rock and clay to 30 ft. Temp 54.
8P1	R. R. Longmore	V. 205	Dg	18	36	16	14	4+	..	R-17¼	..	S. ⅓	D	Well goes dry occasionally. Blue shale at 18 ft. Spring across highway.
8P2	John Rae	V. 200	Dg	40	..	0	..	..	..	..	..	S. ⅓	D. S	Some yellow color in water. Well pumps out in ½ hour.
9F1	Alvina Lankow	H. 402	Dg	76	48	6	..	..	Sand(?)	..	..	H	D	Pumps dry easily. Sandy at bottom. Heavy rain affects taste of water.
9M1	Ralph Seely	U. 390	Dg	60.5	65 by 50	5¼	..	..	Gravel	55.8	8-21-54	J. ¾	D. S	FT. Temp 54.
9P1	Sam Leathers	U. 420	Dr	287	8	147	117	16	Gravel and coarse sand	R-80	1- 5-54	T. 5	D. Irr	Pumped 4 hr at 40 gpm. 20-ft dd. L. FT.
9Q1	Fred Wichert	U. 445	Dg	106.6	32	8	..	..	Gravel	101.1	(pumping 4 hr) 8-21-53	P. ½	D. S	Pumped 4 hr when water level measured. Temp 53.
10F1	Hilma Leine	U. 448	Dg	84.4	40	6	..	..	Gravel(?)	79.5	8-20-54	-¾	D	Much "rust" in water. Temp 54.
11N1	K. R. Breidenstein	T. 295	Dr	63	6	64	37	22	Gravel and sand	R-37	..	T. 5	Irr	Bailed 60 gpm, 1 ft dd. Springs on hillside to northwest. Sulphur or iron taste and smell. FT. Temp 54. L.
12B1	O. R. Lampitt	T. 292	Dg	35	48	10	..	..	Sand and gravel	R-27	..	J. ½	D. S	Clay and cemented gravel above sand and gravel.
12R1	--Clark	T. 290	Dg	53.2	30	10	..	..	Gravel	51.4	(pumping 1 hr) 8-19-54	P. ½	D. S	Cemented gravel entire depth. FT. Temp 54.
14B1	--Blomgren	T. 250	Dg	39.2	..	0	..	..	Gravel(?)	36.5	8-19-53	J. ½	D	Pumps dry easily. Temp 56.
14N1	A. H. Molton	T. 265	Dg	52	36	..	..	..	..	R-50±	..	J. ½	D. S	Well has never been pumped dry.
14R1	C. C. Sisson	T. 265	Dg	68	48	12	..	..	Gravel	..	..	P. ⅓	D	Upper 15 ft clay, mostly gravel below.
15A1	Perry Zion	T. 260	Dr	44	6	..	..	..	Sand and gravel	22.0 22.4	1-21-53 8-26-53	P. 1	D. S	Pumped 1 hr at 10 gpm, no "dd". Casing perforated. FT. H.

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Well no.	Owner or tenant	Topography Altitude (feet)	Type of well	Depth of well (feet)	Diameter of well (inches)	Depth of casing (feet)	Water-bearing zone(s) Depth to top (feet)	Water-bearing zone(s) Thickness (feet)	Character of material	Water level Below datum (feet)	Water level Date	Pump, type H. P.	Use	Remarks
	T. 11 N., R. 2 W.--Con.													
15A2	Perry Zion	T. 265	Dr	46.3	12	46	28	12	Sand and gravel	25.0	1-21-53	T. 5	Irr	Pumped 75 gpm, 20 ft dd, 5-17-50; less than 32 gpm in fall, 1952. L.
15C1	Joe Zion	U. 464	Dr	127	6	120	..	..	Gravel	..	..	P. ¾	D, S	Pulled back up out of blue clay. Casing not perforated.
16D1	--Nikander	U. 405	Dg-Dr	80	..	80	..	..	..	..	..	T. ½	D	Dug 42 ft.
16K1	Warren Enbody	U. 423	Dg	76	..	76	..	..	..	..	..	J. 1	D	Has never been pumped dry.
17E1	J. J. McKnight	V. 205	Dr	140	6	140	..	..	Sand, white	..	..	J. ½	D, S	Entered blue clay at 80 ft. Pumped 24 hrs, little dd. Some brown stain from water.
17E2	Russel Foreman	V. 205	Dr	182	6	182	139	..	.... do.	..	..	J. 1	D, S	Originally 142 ft deep. L.
17M1	Matt Uitto	T. 200	Dr	90.3	6	110	100	..	.... do.	37.7	8-27-53	P. ¾	D	Upper 10 ft gravel, overlying soapstone. Brown stain from water. Temp 54.
17N1	Oscar Anderson	V. 180	Dr	145	6	..	..	..	..	R 10-12	..	- ¼	D Inst	Pumped 8 hr, dd less than 1 ft. Water soft. Nearby 26-ft well had hard water.
19D1	Fred Johnson	U. 435	Dr	105	6	100	..	..	Sand, coarse	R 65	..	J. ½	D, S	Water-bearing at 60 ft and 100 ft, yield 8 gpm. Some brown stain from water.
19M1	Mary Ann Raab	U. 375	Dg-Dr	93	6	90	..	..	..	..	..	J. 1	D, S	Dug to 26 ft. Yield 16 gpm. Brown stain from water.
19P1	Pauline Smith	U. 370	Dg	50	30	50	..	..	Sandy material	..	..	P. 1	D	Clay most of depth, clam shells near water level. Brown stain from water.
19Q1	R. A. Parish	U. 365	Dg	46.8	42 by 42 to 36	2	..	..	..	36.4	8-25-53	J. ½	D	Supply adequate for normal use. Clay most of depth. Temp 51.
20M1	Logan Ferrier	V. 150	Dg	41.6	24	..	..	..	..	26.3	8-27-53	J. ¼	D	Supply usually adequate. Temp 53.
20N1	William Schoch	V. 180	Dr	75	6	..	..	..	Basalt	R 12	1947	J. ¼	D	Report 20 ft of gravel and clay above basalt. Have pumped steadily 16 hr. Stains sink and clothes yellow. Had "good" water in 22-ft well. L.

Table 1.--Records of representative

Well no.	Owner or tenant	Topography Altitude (feet)	Type of well	Depth of well (feet)	Diameter of well (inches)	Depth of casing (feet)	Water-bearing Depth to top (feet)	Water-bearing Thickness (feet)
	T.11 N., R. 2 W.--Con.							
20R1	W. Erickson	U. 410	Dg	58.2	30	59	..	..
21C1	Charles Perttula	U. 420	Dg	63.4	42 by 42	6	55	9
21L1	Carl Nelson	U. 405	Dg	43.7	..	..	..	..
22H1	--Davis	T. 253	Dg	66.6	48	6	..	..
22H2	. . . . do . . .	T. 253	Dr	260	..	..	..	..
22P1	--Padgett	V. 80	Dg	20	20	9	..	..
23G1	Sulo Kolehmainen	U. 185	Dr	110	12	34	20	10
24Q1	Ed Ritzman	T. 110	Dr	..	6	..	..	..
24Q2	. . . . do	T. 110	Dr	568	..	..	..	..
25B1	Mrs. Ahonen	T. 180	Dg	23.8	48	24	28	2+
26C1	Wayne Kattelus	T. 100	Dg	23.9	48 by 48	4	..	..
26H1	H. B. Turner	T. 175	Dg	34	11	34	..	..
27P1	Flinny Shepardson	T. 85	Dr	80	6	80	..	..
28C1	Eric Lake	U. 390	Dg	50.4	..	..	..	..

wells in Lewis County, Washington--Con.

zone(s) Character of material	Water level Below datum (feet)	Water level Date	Pump, type H. P.	Use	Remarks
..	51.3	8-21-53	J. ½	D,S	Temp 54.
Gravel	55.8	. .do. .	J. ½	D	Soil and "hardpan" to 10 ft; the rest is gravel.
Gravel(?)	36.6	. .do. .	J. ¼	D,S	Has never been pumped dry. Temp 53.
Gravel	62.5	8-17-53	J. ½	D	Pumps dry in 2 hr. Report very little seasonal change in water level. Temp 54. FT.
..	..	..	N	NU	Blue clay, gas, "no water".
Gravel(?)	R 17-18	..	S. ¾	D	Some iron in water, "brackish" taste.
Gravel	R 16	..	..	Irr	Bailed 40 gpm; dd 9 ft. L. Report yield 20 gpm in summer.
..	Flow	2-27-53	S. ½	..	Water salty, bubbling with inflammable gas. Flows about 1 gpm; flowed much harder when originally drilled. Report good water, adequate for domestic use at 70-80 ft. Water for domestic use from springs on hillside nearby.
..	R+20	..	N	NU	U. S. G. S. test hole. L.
Gravel	19.7	8-18-53	S. ½	D	Dug through 26 ft of blue clay. Water level fairly constant. Water leaves gray precipitate on pans. Water used for 2,000 chickens, also.
. . . .do. . . .	11.8	8-19-53	S. ¼	D	Well bottoms in blue clay. Some iron in water. Temp 55.
. . . .do. . . .	..	..	..	D,S	Report plenty of water.
..	..	..	J. ½	D	Supply adequate.
..	36.7	8-21-53	P. 2	D,S	Thick layer of "hardpan". Temp 53.

Table 1.--Records of representative wells in Lewis County, Washington--Con.

Well no.	Owner or tenant	Topography Altitude (feet)	Type of well	Depth of well (feet)	Diameter of well (inches)	Depth of casing (feet)	Water-bearing Depth to top (feet)	Water-bearing Thickness (feet)	Character of material	Water level Below datum (feet)	Water level Date	Pump, type H. P.	Use	Remarks
	T. 11 N., R. 2 W.--Con.													
28M1	D. S. Werden	U. 385	Dg	80	..	..	..	..	..	..	..	F. ½	D	Has never been pumped dry.
28N2	Robert Wigley	T. 240	Dg	21.3	..	0	..	..	..	15.8	8-25-53	S. ½	S	Orange stain from water; bad oder occasionally. Temp 53.
28N3	. . . .do. . . .	T. 240	Dg	26.8	..	23	..	..	..	17.6	. .do. .	S. ¼	D	Temp 52.
29E1	O. H. Schmidt	V. 175	Dg	30	23	25	25	5+	Sandstone, yellow	R-23	8-22-53	S. ½	D, S	Some brown stain from water.
29M1	S. H. Roberts	V. 160	Dg	30	6	..	..	..	..	R-17	..	S. ¼	D	. . . . Do . . . .
29P1	N. P. Railway	V. 143	Dr	186	8	..	124	62+	Sandstone	R-22	5- 3-51	T. 5	RR	Pumped 18 hr at 70 gpm, dd 108 ft. L. H. A.
29Q2	W. H. Sharp	T. 180	Dg	19.1	36 by 48	..	..	..	..	2.0	3-20-53	N	NU	
30D1	E. D. Allen	V. 160	Dr	57	6½	54	35	20+	Sandstone, blue	R-35-45	..	J. 1	D, S	Some brown stain from water. L.
30E1	J. E. Clark	V. 160	Dr	71	6½	..	..	..	Sandstone, blue-black	..	..	J. ½	D	Drilled through coal.
30M1	O. F. Pelton	V. 155	Dg-Dr (?)	33.8	40 by 40	5	..	..	..	24.4	8-25-53	J. ½	D	Has never been pumped dry. Temp 54.
32G1	Town of Vader	H. 140	Dr	220	6	60	140	80	Sandstone	R-20	..	T. 15	PS	Water tastes salty; used when creek supply low. Pumped 86 gpm., 140 ft dd. L. A.
32D1	A. Bruner	V. 134	Dr	75	6	..	..	..	..	..	..	J. ½	D, C, Irr	Supplies many Vader people. Some brown stain from water. A.
33K1	C. C. Bashor	T. 165	Dg	30	30	30	..	..	Gravel(?)	R-6	Spring 1953	S. 1	D	Water leaves brown stain. Spring 500 ft south.
34M1	J. T. Krusor	V. 73	Dg	17.3	72-60	14	..	..	Silt, sandy	10.7	8-18-53	S. ½	D	Goes dry occasionally. Silt entire depth.
34N1	--Saari	T. 100	Dg	38	..	..	..	..	..	R-24	..	J. ½	D	Well bottoms in blue clay.
34R1	Clarence Rockwood	T. 155	Dg	24.4	48	24	..	..	..	20.8	8-18-53	S. ½	D, S	Some iron in water. Temp 54.
34R2	--Beyers	T. 160	Dr	60	8	56	48	1-(?)	Gravel	26.4	. .do. .	T. 3	D, S Irr	Pumped 40 gpm, dd 20 ft. Pumps some sand. L. FT. Temp 52.

Table 1.--Records of representative

Well no.	Owner or tenant	Topography Altitude (feet)	Type of well	Depth of well (feet)	Diameter of well (inches)	Depth of casing (feet)	Water-bearing Depth to top (feet)	Water-bearing Thickness (feet)
	T. 11 N., R. 2 W.--Con.							
35E1	George Leeder	T. 165	Dg	36.4	36	36	..	..
36A1	C. R. Calvin	T. 205	Dr	40	6	..	..	..
36A2	. . . .do. . . .	T. 205	Dr	67	7	..	55	12
36A3	. . . .do. . . .	T. 207	Dr	147	8	65	..	..
36A4	. . . .do. . . .	T. 205	Dr	65.6	8	65	25	15
	T. 11 N., R. 3 W.							
8D1	Robert Cabe	V. 350	Dg	21.5	36	22	..	..
17G1	Fred Dowell	V. 375	Dg	13.5	72	10	..	..
17Q1	Clarence Mueller	V. 395	Dg	18	36	0	7	11
25A1	E. D. Allen	V. 155	Dr	350	2	..	..	..
26P1	J. S. Peters	V. 160	Dr	230	6	80	..	..
29C1	M. R. Henry	V. 442	Dg	6	36	0	..	..
34K1	Ben Helland	V. 206	Dr	89.2	6	..	..	..
35D1	H. E. Dobbins	V. 180	Dg	13.2	60	0	9	..

Wells in Lewis County, Washington--Con.

zone(s) Character of material	Water level Below datum (feet)	Water level Date	Pump, type H. P.	Use	Remarks
..	31.5	8-18-53	J. ½	D. S	Pumping 3 hr when water level measured. FT. Temp 54.
..	..	..	..	NU	Drilled down to bedrock.
Gravel, loose	26.4 (?)	8-17-53	Sb. 3	D. Irr	Pumped 40 gpm. 40 ft dd. Little iron in water. Well formerly 42 ft deep in "hardpan", with much iron in water. FT. Temp 55.
..	26.8	8-26-54	..	..	Baled 20 gpm. Water-bearing at 45 ft and 95 ft. Casing perforated at 45 ft.
Sand and gravel	20.9	. .do. .	T. 5	..	Pumped 100 gpm. dd 10 ft. Iron in water. Ln
Gravel	11.8	8- 4-54	S. ½	D. S	Water hard. Report quartz found when well dug.
Gravel and clay	9.2	. .do. .	S	D. S	Pumps dry. Water soft.
Shale, gray	R-10	..	S. ½	D. S	. . . . Do . . . .
..	..	..	N	NU	Water salty. Plugged at 14.9 ft.
..	R-75	..	Sb.	D	Pumps dry. Water soft.
"Rock"	..	..	S. ¼	D	. . . . Do . . . .
Sand	12.6	8- 4-54	J. ½	D	Water hard, slightly brown.
Clay, blue(?)	12.0	. .do. .	S	..	Used to water garden. Soil and yellow clay overly blue clay. Water hard, rust colored.

Table 1.--Records of representative wells in Lewis County, Washington--Con.

Well no.	Owner or tenant	Topography Altitude (feet)	Type of well	Depth of well (feet)	Diameter of well (inches)	Depth of casing (feet)	Water-bearing zone(s) Depth to top (feet)	Water-bearing zone(s) Thickness (feet)	Character of material	Water level Below datum (feet)	Water level Date	Pump, type H. P.	Use	Remarks
	T. 11 N., R. 1 E.													
5F1	Walt Hoskins	T. 170	Dg	12	..	0	..	..	Gravel	R-11	..	S. ½	D	Can pump dry in 2 hr. Iron stain from water.
5F2	.... do	T. 200	Dr	920	10	0	..	..	..	..	..	N	NU	Test hole for oil. Natural gas encountered at 90 ft.
6H1	Roy Steele	T. 55	Dg-Dm	11	..	11?	..	..	..	..	..	S. ½	D. S	Well has sandpoint.
6Q1	Oren Leyton	T. 180	Dg	95	..	0	..	..	Gravel	7.5	9-25-53	S. 1	D	Water has greasy scum, leaves brown stain.
14D1	M. J. Kalich	H. 580	Dg	23	36	0	..	..	Rock, volcanic(?) jointed	..	..	S. ½	..	Goes dry in late summer. FT.
15C1	H. L. Withrow	V. 347	Dg	16	36	0	..	..	Clay, red	R-13	..	B	D	Goes dry in late summer. Water soft.
16J1	Harry Inman	V. 318	Dg	19	30	24	..	..	Sand and gravel	67	8-13-54	S	NU	Water hard, leaves rusty stain.
16P1	..	V. 316	Dr	540	..	..	..	..	..	..	..	N	NU	Test hole, U.S.G.S. Fuels Br. L.
18E1	Oliver Templeton	T. 302	Dg	30	40	12	..	..	Rocks and clay	R-27	..	J. 1	D. S	Water soft.
18N1	Elmer Barnes	T. 320	Dr	159	6	159	..	..	..	..	..	P. ¾	D	Well pumps dry. Water soft.
18P1	G. H. Smith	T. 320	Dr	65	6	..	..	..	..	..	..	P. ½	D. S	Water rust-colored. FT.
19K1	A. F. Schmit	V. 300	Dr	112	6	112	100	12+	Sand, blue	R-30	..	P. ½	D	Water hard, rust colored. L. Yield 20 gpm.
20C1	..	V. 330	Dr	223	..	..	..	..	..	..	..	N	NU	Test hole, U.S.G.S. Fuels Br. L.
29Q1	Joe Eckels	T. 285	Dr	200	6	..	..	..	..	96.2	8-13-54	P. 1	D	Well pumps dry. FT.
33P1	G. F. Quinn	T. 380	Dg	22.8	8	23	..	..	Gravel	19.8	8-17-54	S. ½	D	Goes dry in late summer. Water hard.
	T. 12 N., R. 1 W.													
1N1	E. S. Payne	H. 555	Dg	20	36	20	..	..	Sand and gravel, red	R- 0	..	G	D	Well overflows in winter and spring. Water soft.
1P1	John Rendig	H. 555	Dg	20	48	12	..	..	..	R- 1-2	..	G	D. S	Owner has never pumped well dry.
2L1	George Hoyt	V. 1025	Dg	30	60	8	..	..	Sand, green	25.5	8-17-54	S. ¼(?)	D	Pumps dry. Water soft.
*2Q1	Herbert R. Smith	U. 587	Dg	34.7	36	7	..	..	..	30.5	1-20-53	J. ½	NU	Recovers very slowly.
3F1	William J. Peterson	U. 560	Dg	29.9	48	..	..	..	..	18.8	.. do. .	S. ½	D. S	Iron in water.
3R1	J. M. Krapu	U. 585	Dg	32.8	60-36	5	..	..	..	2.3	1-16-53	S. ¾	D. S	Well can be pumped dry.
2N1	A. J. Mills	V. 1035	Dg	25	60	4	24	1	Gravel and sand	R-18	..	S. ½	D	Adequate supply. Water soft. L.

Table 1.--Records of representative wells in Lewis County, Washington--Con.

Well no.	Owner or tenant	Topography Altitude (feet)	Type of well	Depth of well (feet)	Diameter of well (inches)	Depth of casing (feet)	Water-bearing Depth to top (feet)	Water-bearing Thickness (feet)	Name(s) Character of material	Water level Below datum (feet)	Water level Date	Pump, type H. P.	Use	Remarks
	T. 12 N., R. 1 W.--Con.													
4E1	William Gilk	U. 543	Dr	127	6	127	..	..	..	26.6	1-14-53	J. ½	D. S	Well being pumped when measured.
4K1	A. Dee	U. 560	Dg	35.0	48	4	..	..	..	13.1	1- 9-53	S. ½	D. S	FT. Temp 47.
4K2	. . . .do. . . .	U. 552	Dg	31.3	60	..	..	..	..	0.5	. .do. .	N	NU	Temp 46.
4K3	Clara Johnston	U. 553	Dg	37	96	0	..	..	..	R- 2	..	J	D	Adequate supply.
4M1	Weldon Pascoe	U. 530	Dg	22.5	84	4.5	..	..	..	3.8	1- 9-53	S. ½	D	Temp 49.
4M2	Arthur Lantau	U. 545	Dg	32.5	42	15	..	..	..	30.3	1-15-53	S. ½	..	Well can be pumped dry with present pump.
4M3	Jackson Prairie School	U. 537	Dr	86	6	86	..	..	Sand and gravel	R-32	1-31-47	J. 1	PS	Red clay overlies sand and gravel. Well supplies 45 students.
4N1	Robert R. Smith	U. 544	Dg	39.4	48	6	..	..	..	25.3	1-15-53	J. ½	D. S	Adequate supply.
4N2	Matilda Jackson State Park	U. 543	Dr	87	6	87	79	8	Gravel	..	..	P. H	PS	Clay, sand, and rotten gravel above aquifer. Iron in water.
4N3	Paul G. Engen	U. 540	Dr	92	6	92(?)	86	6	. . . .do. . . .	R-21	9-27-53	J. 3	D. Irr	Pumped 12 hr at 30 gpm, dd 10 ft. Rapid recovery. L.
4R1	Alvin Kennedy	U. 567	Dg	40	36	6	38	2	Sand	3.3	2-14-53	S. ½	D. S	Adequate supply.
5C1	Sam Perkins	U. 522	Dr	75	6	65	..	..	Gravel	R-35	7- -51	J. ½	D	. . . . Do . . . .
5C2	O. W. Bliss	U. 526	Dr	115	6	115	85	..	Gravel, yellow	28.2	1- -53	J. 1	D. C	Supplies two homes and a cafe. Temp 49.
5E1	A. A. Singer	U. 525	Dr	128	6	125	115	13	Sand and gravel, clean	R-32	4-21-52	T. 7½	Irr	Pumped 4 hr at 120 gpm, dd 38 ft. Rapid recovery. L. FT. Temp 51.
5E2	. . . . do	U. 525	Dg	39.1	36	5	35	3	. . . .do. . . .	34.3 20.0	10-24-52 1- 8-53	J. 1	D	Adequate supply.
5E3	Louis Schmitt	U. 522	Dg	42	36	3	..	..	Clay and gravel	R-36	11- -52	J. ½	D. S	Well deepened recently.
5G1	R. L. Edwards	U. 530	Dr	87	7	82	75	10	Gravel	R-30	7- -52	J. 1	D	Rapid recovery.
5G2	Rex Brism	U. 528	Dr	77	6	68	72	5	. . . .do. . . .	R-20-25	7- -50	J. ½	D	Water soft. L.

Table 1.--Records of representative

Well no.	Owner or tenant	Topography Altitude (feet)	Type of well	Depth of well (feet)	Diameter of well (inches)	Depth of casing (feet)	Water-bearing Depth to top (feet)	Water-bearing Thickness (feet)
	T. 12 N., R. 1 W.--Con.							
5G3	Frank Galivan	U. 527	Dr	58	6	58	..	..
5G4	R. D. MacKinzie	U. 528	Dg	37	54	10	..	..
5H1	Leslie Sample	U. 530	Dg	32.7	60	4	..	..
5H2	Ray E. Smalley	U. 520	Dg	33	42	4	..	..
5M1	L. B. Johnson	U. 510	Dr	50	6	50	46	4
5N1	Walter White	U. 500	Dg	30	36	4	..	..
5P3	Alonzo Corp	U. 524	Dg	34.5	48	42	..	..
5R1	H. R. Haven	U. 540	Dg	42	36	8	..	..
6B1	C. W. Hensel	U. 512	Dg	25.4	55-36	3.2	..	..
6G1	D. C. Alexander	U. 510	Dg	36.3	42	5	..	..
6G1	Ruby E. Lowry	U. 505	Dr	106	7	106	..	..
6H1	Elizabeth Nelson	U. 518	Dg	39.2	48-42	5.5	..	..
6K1	..	U. 500	Dg	24.0	48	2.5	..	..
6L1	George E. Chappell	U. 505	Dr	108	6	106	90	16
6P1	Glenn Swayze	U. 495	Dg	27.5	42	4	..	..
7A1	John G. DoAne	U. 503	Dg	19.1	36	19	..	..

Wells in Lewis County, Washington--Con.

Zone(s)	Water level		Pump, type		Use	Remarks
Character of material	Below datum (feet)	Date	H. P.			
Gravel	R-20	1949	V.	¾	D	Cemented gravel overlies aquifer.
..	R-30	8/20(±3)/52	J.	¼	D	Used by neighbors in dry season.
..	2.0	1-9-53	S		D	Supply inadequate during summer. FT.
..	20.4	1-14-53	J		D	Temp 47.
Gravel, fine	R-13	April 1952	P.	½	D	"Hardpan" overlies aquifer.
..	R- 8	..	S		D	Slow recovery.
Clay, yellow and weathered gravel	3.0	1-15-53	J.	½	D. S	Rapid recovery.
. . . .do. . . .	R-38	..	P		D	Supplies 2 homes.
..	13.5	1- 9-53	S		D. S	Inadequate supply.
..	1.1	1- 8-53	J.	½	D. S	Pumps some blue sand. Rapid recovery. Temp 48.
..	..	. .do. .	V. 1		D	Report water level near top of casing.
..	18.0	1- 9-53	J		D. S	Supply inadequate in fall. Water entering well at bottom of casing. 1-9-53. Water hard.
Clay, yellow and weathered gravel(?)	1.6	1- 8-53	S.	½	D	Temp 46.
Gravel and some sand	R-29	1- -52	J.	½	D. S	Pumped ½ hr at 40 gpm. dd 43 ft. L.
..	4.8	1- 8-53	S		D. S	Water entering well at bottom of casing. 1-8-53.
..	0.7	. .do. .	S		D. S	Adequate supply.

Table 1.--Records of representative wells in Lewis County, Washington--Con.

Well no.	Owner or tenant	Topography Altitude (feet)	Type of well	Depth of well (feet)	Diameter of well (inches)	Depth of casing (feet)	Water-bearing zone(s) Depth to top (feet)	Thickness (feet)	Character of material	Water level Below datum (feet)	Water level Date	Pump, type H. P.	Use	Remarks
	T. 12 N., R. 1 W.--Con.													
7B1	Erin G. Stowell	U. 501	Dg	26.4	48	8	..	..	..	19.2	1- 8-53	F	D	Report more water in well in summer than in winter. Well bell-shaped at bottom.
7C1	Ray D. Surface	U. 501	Dr	82	6	82	60	22	Gravel, fine and sand	R-20	August 1952	J. ½	D	Yield 15 gpm.
7C2	. . . .do. . . .	U. 501	Dg	32.3	30	33	..	..	..	2.9	1- 8-53	N	NU	Temp 46.
7D1	E. Billingsley	U. 502	Dg	44.7	60-48	6	..	..	..	32.7	11-12-52	J. ½	D. S	Supplies 6,000 turkeys. Temp 53.
8A1	Levi Westgard	U. 540	Dg	40.0	36	4	..	..	Clay (?)	17.8	1-15-53	J	D. S	Report 7 ft of water in well during fall.
8C1	Nettie Corp	U. 530	Dg	37.0	48	5	..	..	..	15.8	. .do. .	J. ½	D	Adequate supply.
8D1	James Corp	U. 523	Dg	39.2	48	4	..	..	..	17.5	. .do. .	J. 1	D. S	Can be pumped dry. Temp 48.
8K1	Jack Salsbury	U. 528	Dg	26	42	3	..	..	..	2.7	1-16-53	S. ½	S	Pumps dry frequently in fall.
8L1	S. Guenther	U. 520	Dg	27.8	40 by 40	..	..	..	..	24.0	10-23-52	S. ½	D. S	Temp 52.
8P1	J. P. Guenther	U. 522	Dg	26.8	42	22	22	5	Gravel	10.8	1-16-53	S. ½	D. S	Water entering well at 11 ft below land surface, 1-16-53.
8Q1	Jack Salsbury	U. 515	Dg	21.5	30	7	..	..	Clay, brown(?)	R-14	..	S. ½	D. S	Report water level fairly constant. Iron in water. FT.
8R1	George J. Greul	U. 515	Dr	60	6	60	..	..	..	R-10	8- -52	J. ½	D	Adequate supply
9A1	Henry Lucas	U. 561	Dg	33.0	42	4	..	..	..	1.4	1-14-53	S. ½	NU	FT. Temp 47.
9A2	. . . .do. . . .	U. 561	Dr	90	6	90	85	5	Sand, fine, and gravel	R-13	1947	J. 1	D	Yield 75-100 gpm. L.
9B1	H. D. Layton	U. 560	Dr	100	6	100	..	..	..	23.1	1-14-53	J. ½	D	Adequate supply. Temp 47.
9B2	R. R. Neer	U. 560	Dg	35	42	3.5	..	..	..	3.1	1-15-53	J. 1	D. S	Supplies 4,000 chickens. FT.
9D1	George C. Gruel	U. 521	Dg	13.4	33	..	..	..	..	4.9	9-15-52	N	NU	Reservoir for fire protection. H.
9D2	. . . .do. . . .	U. 521	Dr	32	6	32	..	..	..	Flows	..	S. ½	D	Supplies restaurant.
9D3	Rae Mathis	U. 521	Dg	28	180 by 144	28(?)	..	..	..	Flows	..	S. ½	D	Caved in once when overpumped. (during fire in 1943)

Table 1.--Records of representative wells in Lewis County, Washington--Con.

Well no.	Owner or tenant	Topography Altitude (feet)	Type of well	Depth of well (feet)	Diameter of well (inches)	Depth of casing (feet)	Water-bearing zone(s) Depth to top (feet)	Thickness (feet)	Character of material	Water level Below datum (feet)	Date	Pump, type H. P.	Use	Remarks
	T. 12 N., R. 1 W.--Con.													
9D4	Ralph Boe	U. 533	Dr	68	6	68	..	..	..	..	..	J. 1	C. D. Irr	Supplies grocery store and service station. Uses 100 gph for regrigeration unit. Water level close to land surface.
9E1	Pearl Carson	U. 535	Dr	106	5	106	..	..	..	..	..	J. ½	D	Report water level high.
9E2	Frank Williams	U. 545	Dr	110	6	110	..	..	Gravel	20	May 1950	J. ½	D	Adequate supply. FT.
9J1	..	U. 550	Dg	9.8	38	3	..	..	..	3.3	1-16-53	..	NU	House destroyed.
9J2	K. R. Thomas	U. 550	Dg	28.9	42	3	..	..	..	13.0	.. do. .	S	D	FT. Temp 47.
9L1	Fritz A. Swanson	U. 530	Dg	19.0	42	4	..	..	..	2.7	.. do. .	S. H	D	Pumps dry in fall. FT.
9N1	Arthur Chouinard	U. 540	Dr	200	..	..	..	..	..	..	1-23-53	P	D	Adequate supply.
9N2	Fred J. Young	U. 540	Dg	45	48	3.5	..	..	..	3.5	1-28-53	J	D. S	Water hard, rusts pipes and metal utensils badly.
10C1	C. K. Adams	U. 568	Dg	37.5	60-36	5	..	..	Clay, yellow and gravel	3.5	1-16-53	P. ½	D. S	Can be pumped dry. Rapid recovery. FT.
10C2	O. M. Hardy	U. 558	Dg	24.5	66	9	..	..	..	1.6	1-20-53	S	D	Temp 47.
10D1	..	U. 567	Dg	34.8	40	5	..	..	..	11.6	1-16-53	S	D	
10G1	Lena Blavelt	U. 577	Dg	28.4	36	9	..	..	Gravel, weathered	24.8	1-23-53	S	D	Report 8 ft of water in well in fall of 1952.
10G2	H. C. Johnson	U. 580	Dg	43.5	48	6	..	..	..	12.7	.. do. .	J. ½	D. S	Supplies two homes. Water entering well at bottom of casing, 1-23-53.
10G3	K. M. Walker	U. 578	Dg	..	42	9.5	..	..	..	28.6	.. do. .	P. ½	D	FT. Temp 48.
10H1	Harry Matthiesen	H. 524	Dg	14	72	14	10	2	Gravel	1.3	.. do. .	S. ¼	D. S	Report pumped dry in 12 hr with ½ H.P. pump with 2-inch outlet.
11B1	C. Nielsen	U. 588	Dg	30.1	36	3(?)	..	..	..	1.6	1-20-53	S	..	FT. Temp 48.
11C1	Omer O. Rud	U. 585	Dg	22	36	22	..	..	Gravel	14.0	1-16-53	S. ½	D	Report 3 ft of water in well in fall, 1952. FT.

Table 1.--Records of representative wells in Lewis County, Washington--Con.

Well no.	Owner or tenant	Topography Altitude (feet)	Type of well	Depth of well (feet)	Diameter of well (inches)	Depth of casing (feet)	Water-bearing zone(s) Depth to top (feet)	Water-bearing zone(s) Thickness (feet)	Water level Below datum (feet)	Water level Date	Pump, type H. P.	Use	Remarks
	T. 12 N., R. 1 W.--Con.												
11E1	Elmer Hodgson	H. 490	Dg	25.3	45-36	4	..	..	13.1	1-23-53	B	D	Water muddy in fall, 1952. Temp 48.
11G1	Michael Majoros	H. 450	Dg	18.5	36	6	..	..	1.7	. .do. .	S. ½	D. S	Adequate supply.
11J1	Nona Wilson	T. 432	Dg	27.3	48	4	..	..	23.1	. .do. .	S. ½	D. S	Supplies two homes. Rapid recovery. Seldom more than 5 ft of water in well.
11K1	Claude Lewis, Jr.	T. 422	Dg	21.0	48	4.5	..	..	5.8	. .do. .	S. ½	D	Pumps dry in fall. Water entering well at bottom of casing. 1-23-53.
11R1	Herbert Donner	T. 436	Dg	27.4	42	3	..	..	19.6	1-20-53	S. ½	D. S	Adequate supply.
12D1	H. A. Ekiss	T. 446	Dg	29.7	52	0-6 25-30	25	5	25.1	1-20-53	S. ½	D. S	Deepened 5 ft in August 1952.
12N1	..	T. 450	Dg	30½	40	8	..	..	R-25	..	S. ½	D. S	Can be pumped dry. Rapid recovery.
12N2	Walter L. Anderson	T. 448	Dg	34.9	54-42	8	32	3	21.7	1-21-53	J. ½	D	Can be pumped dry in 6 hr with present pump. Rapid recovery. Water rusts pipes badly.
12P1	Joe Schuttie	T. 458	Dg	46.1	42	6	..	..	1.8	1-20-53	J. ½	D. S	Water rusts pipes rapidly. FT.
12P2	Edward Moltz	T. 458	Dg	40.0	30	5½	..	..	10.1	1-21-53	J. ½	D. S	Water has "mineral" taste. Water entering well at bottom of casing, 1-21-53. FT.
12Q1	John Cooper	T. 467	Dg	44	42	7	..	..	R-39½	..	J	D. S	Rapid recovery.
12R1	L. H. Cox	T. 480	Dg	35	48	..	..	..	R-10	..	J. ½	D. C	Supplies service station and grocery store.
13A1	John Schuttie	T. 475	Dg	45	42	5	..	..	R-39	..	J. ½	D	Report constant water level year around.
13D1	Duane Chapman	T. 435	Dg	26.9	42	3.5	..	..	3.2	1-21-53	B	D	Adequate supply.
13D2	J. W. Buttner	T. 430	Dg	27	36	5	21	6	R-21	..	J. ⅓	D	Rapid recovery. Temp 50.

Character of material
..
..
..
..
..
Gravel and sand, clean
Clay and gravel
Gravel and sand, cemented
Sand(?)
. . . .do. . . .
Gravel
..
Sand and gravel
Weathered gravel and sandy clay
Sand and gravel

Table 1.--Records of representative wells in Lewis County, Washington--Con.

Well no.	Owner or tenant	Topography Altitude (feet)	Type of well	Depth of well (feet)	Diameter of well (inches)	Depth of casing (feet)	Water-bearing Depth to top (feet)	Water-bearing Thickness (feet)	Source(s) Character of material	Water level Below datum (feet)	Water level Date	Pump, type H. P.	Use	Remarks
	T. 12 N., R. 1 W.--Con.													
13H1	James C. White	T. 477	Dg	51.9	48	5	..	..	..	35.6	1-23-53	J. ½	D	Report 11 ft of water in well in fall of 1952.
13J1	Warren Smith	T. 464	Dg	43.1	48	8	..	..	..	34.5	. .do. .	P. ½	D	Well blows before storms.
13J2	. . . .do. . . .	T. 462	Dr	115	12	120	80 110	10 5	Gravel, cemented Sand and fine fravel	30.5	9-10-52	T. 25	Irr	Pumped 7 days at 320 gpm, dd 81½ ft. Irrigates 60 acres. L. FT. Temp 50.
13N1	Mary Chappell	T. 420	Dg	28	72	7	..	..	..	R- 7	..	S	D	Adequate supply.
14F1	Winnie Everest	T. 402	Dg	19.8	60	4	..	..	..	2.2	1-22-53	S	D. S	. . . .Do . . . .
14G1	J. C. Oyler	T. 415	Dg	20-25	42	4-6	..	..	..	R- 2	..	S. ½	D	Report 3-4 ft of water in well in summer; can be pumped dry in 1 hr.
14J1	Claude Lewis	T. 430	Dg	30	50	2.5	..	..	..	2.4	1-21-53	S. ½	D. S	Rust in water in fall and winter. Goldfish die in water. FT.
14L1	..	T. 408	Dg	18.7	42	..	..	..	..	0.8	1-22-53	N	NU	House vacant.
15K1	Dan Boone, Sr.	H. 440	Dg	16.0	72	16	..	..	Gravel(?)	0.8	. .do. .	S	D. S	Encountered white clay and gravel. Water hard.
15H1	Anton Roos	T. 390	Dg	16	24	16	..	..	..	3.9	. .do. .	S. ½	D. S	"Rust" in water after heavy rains.
15N1	P. T. Hurd	T. 373	Dg	17.8	24	13	..	..	Clay and gravel cemented(?)	6.9	. .do. .	S	D	Can pump dry in fall. Slow recovery.
15Q1	Wayne Brown	T. 379	Dg	10.6	32	10	..	..	..	5.2	. .do. .	S. ¼	D. S	Can pump dry. Rapid recovery.
16K1	Wash. State Parks and Recreation Commission	H. 400	Dr	61	6	61(?)	20	41	Gravel	R-16	Spring 1950	N	NU	Pumped 30 gpm, 38-ft dd. Iron in water. Upper 20 ft of well in blue clay.
16L1	. . . . do	H. 400	Dr	263	6	100	200±	..	Sand	62.8	5- -53	N	NU	*
16K2	. . . .do. . . .	H. 400	Dr	97.9	10	96½	92	6	Sand, brown and black	40.5	9-10-52	Sb. 3	D.Inst	Pumped 7 hr at 55 gpm, dd 72 ft. Much iron in water. L. FT. Temp 52.
16Q1	E. S. Hofmann	T. 368	Dg	36	17.9	36	21	1	Gravel, cemented, and clay	R-15 12.6	Fall, 1952 1-22-53	S	D	Adequate supply.

*Drilled 350 ft, nearly all through blue clay and shale. Wood at about 100 ft. Yield very low.

Table 1.--Records of representative

Well no.	Owner or tenant	Topography Altitude (feet)	Type of well	Depth of well (feet)	Diameter of well (inches)	Depth of casing (feet)	Water-bearing Depth to top (feet)	Water-bearing Thickness (feet)
	T. 12 N., R. 1 W.--Con.							
16Q3	Robert Sorensen	H. 392	Dr	40	6	40(?)	..	..
16Q4	Wash. State Division of Forestry	T. 378	Dr	58	6	58	45	13
18D1	E. J. Updyke	U. 479	Dg	13.1	..	..	..	..
18D2	. . . .do. . . .	U. 479	Dr	21.2	6	21	19	2
18D3	Thornton Moore	U. 478	Dg	18.0	30	18(?)	..	..
18K1	Roy Reinke	U. 481	Dg	26.2	28	4	..	..
18M1	Ben Meier	U. 480	Dr	87	6	84	55	32
19G1	John Sokolich	U. 500	Dg	34.4	72-48	8	..	..
19D1	Charles P. Ruether	U. 482	Dg	37.5	48	10	..	..
19E1	See 12 N., R. 2 W.							
19F1	W. F. Barber	U. 485	Dg	22.5	48	6	..	..
19K1	William Sorensen	U. 486	Dg	22.2	48	0	..	..
19M1	Isidor Von Rotz	U. 478	Dg	18.1	36	14	..	..
19M2	. . . .do. . . .	U. 478	Dg	17.3	36	17	..	..
19N1	John Meier	T. 490	Dg	44.1	54-42	3.8	..	..
20F2	Roy Inman	H. 470	Dg	21.7	48-36	7.5	..	..
20K1	Zack G. Inman	T. 354	Dr	40	3	40	22	18
20L1	William Meister	T. 362	Dg	22	48 by 54	22	20	2
21A1	Milard Wilson	T. 366	Dg	16	48	16	12	4
21B1	LaCamas Schoolhouse (abandoned)	T. 368	Dg	15.6	30	..	..	..

wells in Lewis County, Washington--Con.

Source(s) Character of material	Water level Below datum (feet)	Water level Date	Pump, type H. P.	Use	Remarks
..	..	..	J. ½	D. C	Supplies service station and motel. Iron in water.
Sand and gravel	..	..	..	D.Inst	
..	5.4	12-5-52	N	NU	H.
Gravel	6.0	9-19-52	S. ½	D. S	Bailed 17 gpm, dd 1-2 ft. Clay overlies gravel.
..	6.7	12-5-52	S. ¼	D. S	Rapid recovery.
Gravel	19.2	12-9-52	S. H	D. S	FT.
Gravel and sand	17.7	3-12-53	..	D	Bailed 20 gpm, dd 42 ft. L.FT.
Gravel and clay	28.2	12- 5-52	..	D. S	Adequate supply.
..	30.6	. .do. .	N	NU	
"Rock" and clay	2.7	12-10-52	S. ½	D	Report water level usually 18 ft below land surface. Temp. 48.
..	10.8	12- 9-52	S. H	NU	Temp 47.
Sand and gravel	16.8	. .do. .	S. ½	D	Inadequate supply; rapid recovery. Temp 51.
. . . .do. . . .	16.4	. .do. .	S. H	S	Low yield, rapid recovery.
..	37.1	12-10-52	J. ½	D. S	FT. Temp 50.
Gravel	8.5	5-13-53	S. ¼	D. S	
Gravel, "clean"	..	..	N	NU	Upper 22 ft sandy silt.
Gravel and sand "clean"	4.2	5-13-53	B	D. S	Upper 20 ft slick blue-gray muck, hard in dry weather, caves easily in wet weather.
Gravel	R- 1	..	S	D	Adequate supply.
..	13.2 0.9	10-14-52 1-22-53	S. H	NU	Supply was inadequate when used.

Table 1.--Records of representative wells in Lewis County, Washington--Con.

Well no.	Owner or tenant	Topography Altitude (feet)	Type of well	Depth of well (feet)	Diameter of well (inches)	Depth of casing (feet)	Water-bearing Depth to top (feet)	Water-bearing Thickness (feet)	Geologic source(s) Character of material	Water level Below datum (feet)	Water level Date	Pump, type H. P.	Use	Remarks
	T. 12 N., R. 1 W.--Con.													
21C1	C. H. Adams	T. 361	Dg	17.2	30	17	..	..	..	7.8	2-12-53	S. ½	D. S	Water harder in winter. FT.
21E1	J. E. Webber	T. 354	Dg	20	36	20	..	..	..	6.0	9-18-52	S	D	Iron in water.
21L1	Louis Elken	T. 346	Dg	14	12	14	..	..	Clay(?)	2.8	2-12-53	S	D	Pumped 4½ hr with 2-cylinder piston pump; dd 10 ft.
21P1	John Grohs	T. 341	Dg	12	4-48	12	10	2	Sand and gravel	1.6	. .do. .	S. ½	D	Casing: 4-inch tile to 8 ft; 48-inch rest of way. Upper 10 ft of well in cemented sand and gravel. Iron in water.
21P2	Elmer J. Bayne	T. 350	Dg	15	48	15	14	1	Sand, cemented	R- 7	..	S. ½	D. S	Little seasonal change in water level. Some iron in water. FT.
22A1	I. C. Johnston	T. 386	Dg	12.5	30	11	..	..	..	5.3	1-22-53	S	D. S	Adequate supply.
22C1	John J. McEwen	T. 377	Dg	14.3	28	12	7	5	Gravel, cemented, and some sand	3.7	. .do. .	S. ½	D. S	Rapid recovery.
23C1	Roy Thayer	T. 402	Dg	21	40	14	19	2	Cobbles and fine sand	R-13	..	S. ½	D	Adequate supply.
23N1	Elton L. Fish	T. 388	Dg	21.7	60-48	7	18	4	Sand and cobbles, clay binder	18.7 16.6	9-15-32 1-29-53	S. ½	D. S Irr	Report white clay on rises in area, gravel in swales. L,FT.
23R1	Elmer G. Harris	T. 403	Dg	32.4	50-36	4.5	..	..	Gravel, cemented (?)	23.7	1-28-53	P. H	NU	Well dug in cemented gravel. FT.
24A2	Russell Gibson	T. 451	Dg	42.9	39-36	10½	..	..	Gravel, cemented	37.7	1-23-53	J. ½	S	Water entering casing between 4 and 10 ft below land surface, 1-23-53. FT.
24F1	Vacant	T. 430	Dg	38.1	42	5.5	..	..	..	33.7	9-15-52	N	NU	H.
24L1	E. L. Higgins	T. 424	Dg	40.3	48	4	..	..	..	R-28 31.8	Summers 1-28-53	J. ½	D	Water entering well at bottom of casing, 1-28-53.
24N1	Elmer G. Harris	T. 417	Dg	38.3	42	8	..	..	Gravel, cemented (?)	32.0	. .do. .	J. ½	D. S	Water entering well at bottom of casing, 1-28-53. FT.
24R1	H. N. Classe	T. 441	Dg	50	54	8	..	..	Sand	R-46	..	J	D. S	Report water level constant year around.
25D1	Mrs. Jean Buck	T. 405	Dg	60	..	5	..	..	..	..	..	J. ¼	D	Adequate supply.

Table 1.--Records of representative wells in Lewis County, Washington--Con.

Well no.	Owner or tenant	Topography Altitude (feet)	Type of well	Depth of well (feet)	Diameter of well (inches)	Depth of casing (feet)	Water-bearing zone(s) Depth to top (feet)	Water-bearing zone(s) Thickness (feet)	Character of material	Water level Below datum (feet)	Water level Date	Pump, type H. P.	Use	Remarks
	T. 12 N., R. 1 W.--Con.													
25R1	Walter Harmanson	T. 355	Dg	35.6	48	8.5	..	..	Gravel	29.0	1-30-53	J. ½	D	Report water level varies 1-2 ft seasonally; rapid recovery. Ft.
26A1	L. A. Geforth	T. 405	Dg	35.3	60	4	..	..	..	31.2	1-28-53	J. ½	D, S	Report high yield. Water entering well at bottom of casing, 1-28-53.
26E1	Leroy Davidson	T. 386	Dg	21	40	0	16	5	Gravel	15.1	1-29-53	S. ¼	D, S	Rapid recovery.
26F1	W. H. Hill	T. 396	Dg	31.3	54-48	3	..	..	..	27.2	. .do. .	J. ½	D	Supply usually adequate; rapid recovery. Water entering well beneath casing 1-29-53.
26J1	Carl W. Pitlick	T. 405	Dg	43	48	8	..	..	Gravel, cemented	R-40	..	J. ½	NU	Rapid recovery.
26J2	. . . . do	T. 405	Dr	68	6	68	..	..	Sand, coarse and gravel	R-38	..	J. ½	D	Bailed 8 gpm.
26L1	Mack Lasiter	T. 390	Dg	34.7	56-48	3.5	..	..	..	29.6	1-28-53	J. ½	D, S	Pumped 1½ days, unable to pump well dry.
27E1	Robert Williams	T. 366	Dr	31	6	31	28	3	Gravel	R-12	Spring 1951	S. ½	D, S	Report water level constant seasonally.
27H1	L. L. Francy	T. 382	Dg	18.6	60	4	..	..	..	2.4	1-29-53	S. ½	D, S	Iron in water. FT. Temp 47.
27P1	Irene Sareault	T. 369	Dg	42	48	6 or 8	..	..	..	R-30	..	J. ½	D, S	Adequate supply.
28C1	J. K. Raugstad	T. 352	Dg	17.1	36	7	..	..	..	9.9	2-12-53	S. ½	D	Soft water.
28F1	M. E. Sinclair	T. 355	Dg	16.4	60-42	7.5	..	..	..	11.4	. .do. .	S	D	Rapid recovery. FT.
28F2	S. A. Morrow	T. 345	Dg	16.0	30	3½+	..	..	..	0.9	2-13-53	N	NU	House vacant. FT.
28H1	Wayne Sowers	T. 362	Dg	20.2	42(?)	..	..	..	..	11.0	2-12-53	S. ¼	NU	House vacant.
28L1	Mrs. V. Horazy	T. 346	Dg	14.6	48	16 or 18	..	..	..	10.6	. .do. .	S. ½	D, C	Adequate supply.
28P1	Glenn Netteland	T. 344	Dg	15.8	55-48	2	..	..	..	12.5	. .do. .	S. ¼	D, S	Supply usually adequate. FT.
28Q1	Clarence Norberg	T. 345	Dg	17.2	24	17	..	..	..	11.3	. .do. .	S. ½	D, S	Adequate supply.
29D1	M. E. Hart	T. 345	Dr	22.0	6	32(?)	32	?	Sand, coarse, green-blue	10.1	5-13-53	S, H	D	Pumped 40 gpm, dd 3 ft. L.

Table 1.--Records of representative wells in Lewis County, Washington--Con.

Well no.	Owner or tenant	Topographic situation (feet)	Type of well	Depth of well (feet)	Diameter of well (inches)	Depth of casing (feet)	Water-bearing zone(s) Depth to top (feet)	Water-bearing zone(s) Thickness (feet)	Character of material	Water level Below datum (feet)	Water level Date	Pump, type H. P.	Use	Remarks
	T. 12 N., R. 1 W.--Con.													
30M1	Mrs. M. Schramm	T. 340	Dr	97	..	..	..	..	..	4.0	5-13-53	S	D, S	
32F1	A. M. Duckett	T. 333	Dg	22	48	5.5	..	..	..	10.9	2-13-53	S, H	S	Adequate supply.
32G1	Milton Scott	T. 328	Dg	200	45	3.5	..	..	..	2.8	2-13-53	S, ½	D, S	Rapid recovery. FT, Temp 47.
32G2	W. B. Tavenner	T. 333	Dr	42	6	40	23 40	? 2	Gravel	..	..	J, ½	D	Report driller couldn't bail well dry.
32G4	A. M. Duckett	T. 333	Dg	17.5	48	3	..	..	..	3.5	2-13-53	S, H	D	Can be pumped dry with hand pump. FT.
32K1	L. S. Story	T. 332	Dg	21.9	60	4	..	..	..	16.4	.do.	S	D, S	Report little seasonal change in water level.
32K2	Ernest Schoonover	T. 332	Dg	17.6	6	(?)	..	..	..	14.2	.do.	S, ½	D, S	Supply usually adequate.
32Q1	Earl Chandler	T. 334	Dg	21.1	50	5.5	..	..	..	10.6	.do.	S, ½	D	FT, Temp 47.
33C1	J. Pinard	T. 342	Dg	21.8	48	0	..	..	..	19.4	10-24-52	S,	D	Well in rotten, cemented gravel. H.
33C2	Joe Massey	T. 345	Dg	21.5	60	4	..	..	..	14.6	2-12-53	S, ½	D, S	Rapid recovery.
33C3	.... do.	T. 345	Dg	22.0	24	22	..	..	..	13.3	.do.	B	NU	Slow recovery.
33G1	James R. Allison	T. 353	Dg	30	54	8	..	..	Gravel	2.4	2-11-53	S, ¼	D, S	Dug entirely in gravel. Can be pumped dry.
33M1	C. A. Payton	T. 355	Dg	26.9	48	3½	..	..	..	20.3	1-29-53	S, ¾	D, S	Report high yield. Temp 47.
33L1	Donald L. Mitchell	T. 345	Dg	39.7	54	5	..	..	..	33.6	2-11-53	J, ½	D	Water has iron taste. FT.
33L2	Mrs. Lauretta Hansen	T. 352	Dg	33.9	36	..	..	..	..	29.1	.do.	..	D, C Inst	Report little seasonal change in water level.
34A1	Leroy McConnell	T. 380	Dg	46.3	48	3	..	..	..	38.3	1-29-53	J, ½	D, S	Well has been pumped dry during summer. Temp 49.
34B1	Mrs. Theresa Berta	T. 365	Dg	42	48	5	..	..	Clay and gravel	R-32	..	J, ½	D	Adequate supply.
34B2	.... do.	T. 361	Dg	29.5	60	5	..	..	..	14.8	1-29-53	S, H	NU	Temp 49. FT.
34B3	Clyde Gray	T. 360	Dg	34.2	48	4	..	..	..	27.7	.do.	P, 1½	C	Adequate supply.
34M1	Upper Cowlitz School (abandoned)	T. 380	Dg	52.7	42	7½	..	..	..	51.6	.do.	P, H	NU	

Table 1.--Records of representative

Well no.	Owner or tenant	Topography Altitude (feet)	Type of well	Depth of well (feet)	Diameter of well (inches)	Depth of casing (feet)	Water-bearing Depth to top (feet)	Water-bearing Thickness (feet)
	T. 12 N., R. 1 W.--Con.							
34J1	John Dorn	T. 340	Dg	31.7	60	2	..	..
34J2	George Herren	T. 332	Dg	27.2	40	4	..	..
34M1	Susan Cochran	T. 363	Dg	57	48	0	..	..
34R1	George Herren	T. 332	Dg	51.4	72	3½	..	..
35G1	Henry McQuigg	T. 340	Dg	35	42	8	..	..
35L1	Frank Close	T. 340	Dg	45	72-30	45	..	..
36A1	Mrs. Barbara Ehrs	W. 300	Dg	42.2	50	9	..	..
36D1	W. L. Dillon	V. 330	Dg	60	48	25	..	..
36K1	Phillip Gisselberg	T. 342	Dg	54.6	48	5	..	..
36K2	Virgil Melton	T. 343	Dg	60	42	(?)	..	..
36F1	William Lainne	T. 339	Dg	44.0	48	8	..	..
36P1	..	T. 260	Dg	23.3	30	..	..	..
36R1	John Hinkley	T. 275	Dg	28.1	72-48	4	..	..
	T. 12 N., R. 2 W.							
1B1	Sam Baron	U. 481	Dg	35.7	48	6	..	..
1M1	H. W. Scheid	U. 484	Dr	114	6	114	..	..
1N1	Windell Hill	U. 481	Dg	29.0	52-40	4.1	..	..
1N2	M. V. Hill	U. 465	Dr	80	6	80	..	..

wells in Lewis County, Washington--Con.

Zone(s)	Water level		Pump, type		Use	Remarks
Character of material	Below datum (feet)	Date	H. P.			
..	29.6	2-11-53	J.	½	D. S	Can pump dry in 20 min. Report water level constant year around. FT
..	dry	. .do. .	S.		NU	Supply inadequate for stock.
..	dry	. .do. .	N		NU	Originally 100 ft deep. Dug in 1840(?) by Hudson Bay Co.
..	34.6	. .do. .	J.	¼	D. S	Can pump dry in summer. FT.
Gravel	R 24	..	S.	½	D. S	Well has been pumped dry in 2 hr.
..	below 23	2-10-53	J.	½	D	Supply inadequate in late summer.
..	30.6	. .do. .	J		D. S	Supplies two homes. FT.
Cobbles and boulders(?)	R 30	..	J.	¾	D	Rapid recovery. FT.
..	51.7	2-10-53	J.	1	D. S	Supply usually adequate. Temp 49.
..	54.0	. .do. .	J.		D. S	Adequate supply. FT.
Boulders, gravel and black sand	dry	. .do. .	B		NU	Goes dry in summer.
..	7.8	2-11-53	S.	½	D	FT
Gravel, cobbles, boulders, some sand	14.1	. .do. .	S.	¼	D	Supplies two homes; can pump dry.
..	31.0	11-12-52	J.	½	D. S	Adequate supply.
..	..	..	J		D. S	Water muddy for 2 weeks after earthquake (1949).
..	27.8	12- 4-52	S.	½	D. S	Inadequate supply. FT.
..	R 16	..	J		D	Adequate supply.

Table 1.--Records of representative wells in Lewis County, Washington--Con.

Well no.	Owner or tenant	Topography Altitude (feet)	Type of well	Depth of well (feet)	Diameter of well (inches)	Depth of casing (feet)	Water-bearing Depth to top (feet)	Water-bearing Thickness (feet)	Zone(s) Character of material	Water level Below datum (feet)	Water level Date	Pump, type H. P.	Use	Remarks
	T. 12 N., R. 2 W.--Con.													
1P1	Ben Richardson	U. 484	Dr	129	6	129	116	13	Sand, coarse, and some gravel	R-30'	8-29-52	J, ½	D, Irr	Pumped 60 gpm, dd 6 ft. L.
2A1	R. A. Hawkins	U. 465	Dg	25	48	6	..	..	..	22.3	11-12-52	S, ½	D	Water milky after heavy rains.
2D1	Ivan Buckovic	U. 460	Dg	42.2	60	..	..	..	..	32.7	11-13-52	J, ½	D	Temp 51.
2D2	.... do	U. 460	Dg	16	30 by 30	..	13	3	Gravel	R- 0	7-24-53	-, 5	Irr	Dug through 11 ft of "hardpan" above gravel. Pumped 8 hr at 75 gpm. Supply barely adequate.
9E1	Charles D. Hoaglund	U. 466	Dg	42.9	48	0	..	..	Clay and gravel	37.9	11-13-52	J, ½	D	Temp 50.
2H1	James Nelson	U. 482	Dg	50	48	20	35	15	Clay and weathered gravel	42.8	11-12-52	J, 1	D, S	Supply usually adequate. Temp 53
2J1	.... do	U. 482	Dr	140	8	137	70	67	Gravel, sandy, clayey	R-70	6- 4-53	T, 10	D, S Irr	Pumped 4 hr at 135 gpm, dd 55 ft. L.
2L1	H. A. Stone	U. 482	Dg	48	60	48	..	..	..	R-33	..	J, ½	D, S	Adequate supply.
2M1	Calvin Clark	U. 460	Dg	21	42	0	..	..	Clay and gravel	R-20	..	S, ½	D	Inadequate supply.
2N1	C. E. Goudie	U. 460	Dg	47.9	54	5	20	28	Clay and weathered gravel	26.7	11-13-52	J, ½	D, S	Dug through cemented gravel. FT. Temp 51.
2P1	H. McKee	U. 485	Dg	52.8	42	6	50	2	Boulders, gravel, tight sandy matrix	41.7	11-12-52	J	D	Encountered boulders. Temp 49.
2Q1	J. H. Constant	U. 475	Dg	32.7	48	8	..	..	Gravel	30.4	.. do ..	J, ½	D, S	Report much seasonal fluctuation of water level. Water soft. Temp 49.
3A1	R. A. Laney	U. 464	Dr	90	6	90	..	..	Clay and gravel	..	..	J	NU	Report water muddy, clears after pumping 8 hr.
3A2	.... do	U. 464	Dr	200	6	194	180	20	Sand, fine	R-100	12-31-52	J, 1½	D	Water soft, water muddy before well deepened from 120 ft. L.
3C1	Harry Carnes	U. 440	Dg	24	..	6	..	..	..	R- 17	..	S	D, S	Rapid recovery. Much iron in water.
3C2	--	U. 435	Dg	23.3	48(?)	4	..	..	..	19.9	11-14-52	N	NU	House vacant. Well under back porch.

Table 1.--Records of representative wells in Lewis County, Washington--Con.

Well no.	Owner or tenant	Topography Altitude (feet)	Type of well	Depth of well (feet)	Diameter of well (inches)	Depth of casing (feet)	Water-bearing Depth to top (feet)	Water-bearing Thickness (feet)	Character of material	Water level Below datum (feet)	Water level Date	Pump, type H. P.	Use	Remarks
	T. 12 N., R. 2 W.--Con.													
3E1	Ove Holm	U. 450	Dg	45.6	42	6	..	..	..	38.9	11-18-52	J	D, S	Has supplied 3000 chickens. Temp 49.
3F1	Gunnar Larson	U. 450	Dr	84	6	83	..	..	Sand, black	R-30 R-23	9- -50 5- -51	J, 1½	D, S	Bailed 16½ gpm; dd 35 ft. Water slightly blue. FT
3G1	James Milbourn	U. 440	Dg	28.2	48	10	..	..	..	24.9	11-14-52	S, ¼	D	Adequate supply.
3J1	E. G. DeHaven	U. 468	Dg	42	36	42	..	..	Clay and weathered gravel	R-39	9- -52	J, ½	D, S	Iron in water. Water hard for 2 weeks after heavy rains.
3M1	Joe Muller	U. 435	Dg	45	48	30(?)	..	..	Clay, yellow, and gravel	R-39	5- -52	J	D, S	Well caved in recently; now re-cased. FT.
3N1	Roland S. Randt	U. 450	Dg	41.5	48	4	..	..	..	35.6	11-14-52	J, ¼	D, S	FT. Temp 48.
3Q1	Harry Lipps	U. 458	Dg	45	48	8	..	..	..	R-37	Fall, 1947	J, ¼	D	Yields 2 gpm. Rapid recovery. Iron in water.
3Q2	Tom Estep	U. 460	Dg	28.6	30	10	..	..	Clay and weathered gravel and cobbles	26.5	11-13-52	S	D	Temp 50.
3Q3	Frank Seroshek	U. 455	Dg	32	48	5	..	..	..	R-27	..	S, ½	D, S	Adequate supply.
4B1	Charles M. Hoaglund	U. 365	Dg	25.7	36	20	..	..	..	23.7	10-31-52	S, ½	D	Inadequate supply. FT.
4H1	Wilbert Beal	U. 418	Dg	20.2	48-42	4	..	..	Gravel, coarse	12.7	11-14-52	S, ¼	D	Has supplied 2000 turkeys.
4J1	John Clark	U. 438	Dg	44.1	..	8	40	4	Gravel	34.1	. .do. .	J, ½	D, S	Topsoil 0-8 ft, clay 8-40 ft.
4Q1	John Gaines	U. 440	Dr	110	6	80	..	..	Sand	35.1	. .do. .	J, ½	D, S	Report "plenty of water". Temp 50.
4Q2	Walter K. Wachter	U. 446	Dg	56.8	30	56(?)	..	..	..	50.1	11-18-52	P, ½	D, S	Inadequate supply. Iron in water. FT, Temp 49.
4Q3	. . . .do. . . .	U. 446	Dr	184	8	184(?)	115 167	7 17	Sand and gravel Gravel	94.0	5-14-53	P, ½	D, S	Drilled in 12/2W-4Q2. Pumped 15 hr at 260 gpm, dd 18-20 ft. L.
5M1	Holger Nelson	U. 410	Dg	53.7	36(?)	..	..	..	..	48.2	11-19-52	J	D	Temp 50.
6C1	Henry Schombel	U. 565	Dg	64.5	60-42	8	55	8	Clay, sandy, consolidated	63.0	11- 5-52	J, ½	D, S	Dug in sandy clay. Supplies 2000 chickens.

Table 1.--Records of representative wells in Lewis County, Washington--Con.

Well no.	Owner or tenant	Topography Altitude (feet)	Type of well	Depth of well (feet)	Diameter of well (inches)	Depth of casing (feet)	Water-bearing Depth to top (feet)	Water-bearing Thickness (feet)	Zone(s) Character of material	Water level Below datum (feet)	Water level Date	Pump, type H. P.	Use	Remarks
	T. 12 N., R. 2 W.,--Con.													
6C2	Henry Schombel	U. 560	Dg	55.3	42	3	..	..	Clay, red	53.1	11- 5-52	N	NU	Well dug in red clay.
6D1	..	U. 620	Dg	53.0	30	53	..	..	..	46.0	.. do. ..	T. ½	D	Temp 51.
6J1	..	U. 513	Dg	37.5	66-42	0	..	..	..	33.5	11-19-52	P. (H)	NU	House empty. Temp 50.
7J1	Harold Breshon	U. 715	Dr	225	8	0	..	..	..	Dry	11- -51	N	NU	Encountered some water in jointed basalt. L.
7J2	.. .. do.	U. 700	Dr	55.7	8	35	35	40	Basalt, fractured	14.4	11-20-52	J. ½	D, S	Iron in water. Water turns black when soap added; yellow when Purex added. L, FT. Temp 50. H.
8A1	Oscar Larson	U. 380	Dg	35	36	35	..	..	..	..	11-18-52	S. ½	D	Adequate supply.
8A2	Archie Floch	U. 404	Dr	69	6	69	68	1	Sand, black	R-44	7- -47	J. ½	D, S	Water soft. L.
8C1	H. J. Claussen	H. 475	Dg	5½	48	..	..	..	Clay	1.9	11-19-52	S. ¼	D, S	Numerous springs in this area.
8D1	G. H. Nelson	H. 480	Dr	118	6	..	100	18	..	..	.. do. ..	J	D, S	Iron in water.
8E1	--	H. 645	Dg	28.9	48	0	..	..	..	Dry	11-20-53	N	NU	Well being dug. Bottom in red tight clay.
8G1	O. F. Raubuck	U. 435	Dg	28.2	43	8.3	..	..	..	21.2	11-19-52	S. ¼	D	Can be pumped dry. FT. Temp 49.
8H1	Paul Sobolesky	U. 400	Dg	48.1	48	4	..	..	Cobbles	45.2	.. do. ..	P. ½	D	Report more water in well in summer than winter. FT. Temp 51.
8J2	Fred Conradi	U. 410	Dg-Dr	90	6	90	..	..	Gravel	R-74	10- -49	P	D, S	Well dug 71 ft. Very hard formation from 50 to 85 ft. Bailed 10 gpm, dd 3 ft.
8P1	George Fries	H. 550	Dr	150	6	0	146	4	Sand and gravel	R-146	1951	N	De	Well caved in below basalt, then was filled in.
8P2	.. .. do.	H. 550	Dr	155	4	140	..	..	..	R-Dry	Summer, 1952	T. 5	NU	Well 5 ft from 12/2W-8F1. L.
8Q1	Norman Fries	H. 505	Dr	138.9	6	136	135	4	"Rock", jointed	30.4 30.0	3-10-53 11-20-52	T. 5	Irr	Pumped 7 hr at 75 gpm, dd 58 ft. Water soft. L, FT.
9A1	H. G. England	U. 455	Dg	51.3	48	6	45	7	Sand and gravel, cemented	44.9	11-14-52	J. ½	D, S	Soil and clay to 20 ft; sand and gravel to 52 ft. Water soft.

Table 1.--Records of representative wells in Lewis County, Washington--Con.

Well no.	Owner or tenant	Topography Altitude (feet)	Type of well	Depth of well (feet)	Diameter of well (inches)	Depth of casing (feet)	Water-bearing Depth to top (feet)	Water-bearing Thickness (feet)
	T. 12 N., R. 2 W.--Con.							
9A2	H. G. England	U. 455	Dg	62	48	6	..	..
9E1	M. G. Egebert	U. 450	Dr	150	6	150	140	10
9C1	..	U. 430	Dg	47.3	36(?)	..	..	..
9D1	W. J. Wilson	U. 410	Dg	70	42	5	30	14
9D2	.. .. .do.	U. 400	Dg	38	42	5	28	10
9E1	Lloyd Anderson	U. 390	Dg	27.3	48	7	..	..
9K2	Clarence Sobolesky	U. 415	Dg	59.1	42	18	..	..
9G1	E. R. Gill	U. 457	Dg-Dr	135	6	135	127	8
9J1	M. C. Heck	U. 445	Dg	33.0	..	33	..	..
9K1	Eveline School	U. 425	Dr	79.8	6	80	75	5
9L2	George R. Smith	U. 432	Dg	66.7	36	68	..	..
9L3	J. M. Cooper	U. 440	Dr	79.2	6	80	60	20
9L4	George R. Smith	U. 435	Dr	143	8	143	135	8

Character of material	Water level: Below datum (feet)	Water level: Date	Pump, type H. P.	Use	Remarks
Sand and gravel, cemented	R- 6	11-14-52	P, ½	S	Well connected with 12/2W-9A1. L.
Gravel and sand	99.3	1-27-53	Sb	D	Has supplied 8000 chickens. Water soft. L.
Clay and weathered gravel	Dry	11-18-52	J. ½	NU	Well dry 5-6 months previous to 11-18-52.
Sand	R-67	. .do. .	P, ½	Irr	Report less water in winter cold spells than in summer. L.
Sand and cobbles, consolidated	R-32	Summer, 1952	P	D,S	Supplies two houses. Water tastes slightly "rusty" or "metallic". L.
..	20.9	11-19-52	S. ½	D	Report more water in well since earthquake in 1950. Report goldfish unable to live in this water. FT. Temp 48.
Cobbles and gravel	53.0	. .do. .	P, ¾	D. S	Report usually 3-4 ft water in well before 1950 earthquakes 6-8 ft since then. Temp 50.
Gravel and sand	R-71	Feb. 1947	P, ¾	D. S	Dug to 80 ft. Water level dropped 51 ft when drilled. Bailed 10-15 gpm. L.
Sand	30.3	11-20-53	J, ½	D	Inadequate supply.
.. .. .do.	R-60	..	J. 1	Inst	Report little seasonal fluctuation in water level. Supplies 50-55 pupils.
..	59.9	11-19-52	J, ½	D, S	Report more water in well in summer than in winter. Temp 51.
Gravel, cemented and clay	65.6	11-20-52	J, 1	D	Report little seasonal change in water level. Iron in water. H.
Gravel, fine and medium	R-69½	2- 53	..	Irr	Pumped 4 hr at 284 gpm, dd 11 ft. L, FT, Temp 50.

Table 1.--Records of representative wells in Lewis County, Washington--Con.

Well no.	Owner or tenant	Topography Altitude (feet)	Type of well	Depth of well (feet)	Diameter of well (inches)	Depth of casing (feet)	Water-bearing zone(s) Depth to top (feet)	Water-bearing zone(s) Thickness (feet)	Water level Below datum (feet)	Water level Date	Pump, type H. P.	Use	Remarks
	T. 12 N., R. 2 W.--Con.												
9N1	E. R. Conradi	U. 440	Dg	32	30	30	..	..	R-30	..	J	D	Report water has odd taste.
9P1	Little Fir Lumber Co.	U. 440	Dr	99	6	99	..	..	..	..	J, 2	Ind	FT.
9Q1	Hope Grange Hall	U. 437	Dr	110	6	..	..	..	77.3	11-14-52	N	Inst	To be used for grange hall.
9R1	John Behymer	U. 450	Dg	85	44	10	..	..	R-77	..	T, ½	D	Well caving.
9R2	. . . .do. . . .	U. 440	Dr	225	8-6	225	94 195	6 15	74.5	2-17-53	T, 7½	Irr	Pumped 4 hr at 75-80 gpm, dd 24 ft. L.
10A1	A. Sarpshak	U. 464	Dg	39.2	54-48	4	..	..	..	..	J	D, S	Inadequate supply.
10D1	C. W. Carlson	U. 465	Dg	57.2	60	5	..	..	49.5	11-14-52	J, ¾	D	Inadequate supply. Temp 49.
10D2	. . . .do. . . .	U. 465	Dr	190	8	190	125 128	3 52	50.4	9-23-53	T, 7½	D, Irr	Pumped 4 hr at 100 gpm, dd 63 ft. L.
10N1	Lyman P. Schwarzkopf	U. 440	Dr	100	6	100	64 72	4 28	R-28 R-28	Fall 1950 March 1952	T, 5	D, S Irr	Pumped 1 hr at 120 gpm, dd 55 ft. Pumps fine sand. L. A.
10P1	Lee Dorning	U. 450	Dg	28	48	4	..	..	R-18	..	S, ½	D, S	Adequate supply.
10R1	LeRoy Allis	U. 470	Dg	46.2	56-48	3	..	..	41.2	12- 2-52	J, ½	D	Inadequate supply.
10R2	. . . . do	U. 470											
11J1	Lew Gambridge	U. 465	Dr	103	6	99	100	3	21.58	12- 3-52	J, 1½	D, S	Report water level fairly constant seasonally.
11K1	O. C. Tyler	U. 448	Dg	25.6	42	7	..	..	20.8	12- 4-52	S	D	Sandy clay, gravel, and cobbles.
11N1	C. A. McConnachie	U. 475	Dg	50	96	11	..	..	R-43	..	J, ½	D	Iron in water. Rapid recovery.
11N2	. . . .do. . . .	U. 470	Dg	80	96	0	..	..	..	..	N	NU	Report "plenty of water".
11R1	Ed Malarz	U. 483	Dg	46.3	36-48	7.2	..	..	39.6	12- 3-52	J, ½	NU	House vacant.
12A1	Dick Blanksma	U. 473	Dg	14.6	42-36	7.8	..	..	12.4	11-12-52	S	D	Adequate supply. Temp 52.
12B1	A. F. Buckallew	U. 469	Dg	16.1	42	7	..	..	14.4	. .do. .	S, ½	D	Well located in basement.
12N1	Ed Malarz	U. 490	Dg	57.7	48-40	5	..	..	44.0	12- 3-52	J, ½	D, S	Adequate supply. FT.

Table 1.--Records of representative wells in Lewis County, Washington--Con.

Well no.	Owner or tenant	Topography Altitude (feet)	Type of well	Depth of well (feet)	Diameter of well (inches)	Depth of casing (feet)	Water-bearing Depth to top (feet)	Water-bearing Thickness (feet)	Character of material	Water level Below datum (feet)	Water level Date	Pump, type H. P.	Use	Remarks
	T. 12 N., R. 2 W.--Con.													
12F1	John Pierog	U. 472	Dg	15.3	36(?)	..	..	..	..	9.8	12- 3-52	S. ¼	NU	House vacant.
12Q1	Carl Thomeson	U. 472	Dg	14.1	28	14	..	..	Sand, black	12.2	.. do. ..	S. ¼	D. S	Dug through clay most of depth. Water soft.
12R1	Della Cook	U. 473	Dg	14	40	10	..	..	..	R-10	..	S	D. S	Adequate supply.
13A1	Harry Chezek	U. 473	Dg	13.5	30	13	..	..	..	11.4	12- 5-52	S. ½	D. S	Supply inadequate in fall 1952.
13C1	John Pierog	U. 464	Dg	29.8	48-30	8	23	4	Clay, sandy and gravel	24.8	12- 3-52	S. ¼	D	.... Do ....
13C2	.... do.	U. 463	Dg	11.2	48	5	10	4	Sand and gravel	9.2	.. do. ..	B	S	Adequate supply.
13D1	Charlotte Zimmerman	U. 465	Dg	31.8	45-72	3	..	..	..	21.8	12- 4-52	S. 1	D. S	.... Do ....
13E1	Albert Neuert	U. 460	Dg	24.9	48-72	6	..	..	Gravel(?)	20.0	.. do. ..	S	D	.... Do ....
13J1	R. L. Smith	U. 480	Dg	25.4	45-42	6.7	..	..	..	21.8	12- 5-52	S. ⅓	D	..
13M1	Ray D. Collins	U. 448	Dg	9.8	36	10	..	..	..	5.6	12- 4-52	S. ½	D	Adequate supply.
13N1	Eugene VonRotz	U. 468	Dg	29.8	48-42	5.5	..	..	..	28.3	.. do. ..	S. ¼	D	.... Do ....
13P1	C. L. McCuen	U. 468	Dg	29	60	7	..	..	Gravel and cobbles, weathered, and sandy clay	R-21	..	S. ¼	D	Iron in water. Water is hard.
13Q1	Mary Meier	U. 460	Dg	11.8	40-36	3.3	..	..	..	3.1	12- 5-52	S. (H)	D. S	Well has two suction pumps. FT.
14A1	Jens C. Jensen	U. 465	Dg	40	36	8	33	3	Gravel	R-34	..	J	D. S	Adequate supply. Rapid recovery.
14A3	J. L. Hemenway	U. 472	Dg	25.7	48	0	23	3	Gravel and clay	23.0	12- 4-52	S	S	Gravel is weathered, clay sandy.
14D1	August Sturza	U. 480	Dg	50.7	48	5.7	..	..	..	46.2	12- 3-52	J. ½	D	Adequate supply. FT.
14E1	.... do.	U. 450	Dg	32.4	60-48(?)	4.5	..	..	..	24.8 16.8	12- 2-52 2-25-53	J. ½	S	Adequate supply.
14E2	.... do.	U. 450	Dg	35	30	6	..	..	..	17.8	.. do. ..	J. ½	S	Wells 14E1 and 14E2 adjoining and connected; use same pump. H.
14N1	.... do.	U. 410	Dg	23.5	36	9	..	..	..	12.7	12-12-52	S. ¼	D	Rapid recovery.
14R1	H. R. Erickson	U. 455	Dg	13.4	36	13	..	..	..	8.5	12- 4-52	S. ½	D	Adequate supply. FT.

Table 1.--Records of representative

Well no.	Owner or tenant	Topography Altitude (feet)	Type of well	Depth of well (feet)	Diameter of well (inches)	Depth of casing (feet)	Water-bearing Depth to top (feet)	Water-bearing Thickness (feet)
	T. 12 N., R. 2 W.--Con.							
14R2	St. Urbans Grange	U. 460	Dg	20.8	50-36	5.4	..	..
15M1	Augusta Williams	U. 443	Dg	86.5	48	7½	..	..
15G1	Lee Dorning	U. 476	Dg	48.7	42	6.1	..	..
15Q1	Frank McGee	U. 442	Dg	75.0	(52 by 76)-42	4.7	..	..
16A1	Willis Porter	U. 412	Dg	60.4	45	7½	..	..
16B1	H. D. Francy	U. 440	Dg	90	36	4	88	2
16C1	R. Jensen	U. 440	Dg	46	..	46	39	7
16E1	James Maguire	H. 475	Dg	21.5	30-36	7.8	..	..
16E2	. . . .do. . . .	H. 460	Dg	22.2	36(?)	22.2	..	..
16E3	. . . .do. . . .	H. 475	Dr	185	4	..	..	..
16F1	G. O. Mackey	U. 440	Dr	42.7	6	45	..	..
16F3	Mackey Bros.	U. 440	Dr	154	6	114	..	..
16J1	Willis Porter	U. 445	Dg	104.3	42	4.6	105	3
16M1	H. Goodell	U. 475	Dg	34.6	35	28(?)	..	..
16N1	Henry Mann	U. 467	Dg	4.5	30	4.5	..	..
16P1	Earl R. Pedersen	V. 390	Dg	20	44	3.5	..	..
17A1	Axel Backman	H. 490	Dg	11	36	6.5	..	..
17B1	. . . .do. . . .	H. 520	Dr	161	6	150	152	9

wells in Lewis County, Washington--Con.

Character of material	Water level: Below datum (feet)	Water level: Date	Pump, type H. P.	Use	Remarks
..	16.7 16.2	12- 2-52 12-10-52	S. 1/6	Inst	Temp 51
..	80.4	10- 2-52	J. ½	D. S	Can be pumped dry. Slow recovery.
..	43.0	. .do. .	N	NU	Water level 39.4 ft higher, 1-22-53. H.
..	66.4	12-11-52	J. ½	D. S	Adequate supply. FT.
..	50.2	11-26-52	J. ½	D	Adequate supply.
Sand	R-80	..	J. ¾	D	Well can be pumped dry.
Gravel and clay	R-39	..	J(?)	D	Adequate supply. L.
..	21.0	11-25-52	S. (H)	S	Yields only 7-10 gpd. Temp 49
..	18.4	. .do. .	S. ½	D. S	Well dug to "solid rock". Supply barely adequate. Bailed 3 gpm.
Sand, fine	..	..	..	..	..
..	29.7	11-26-52	J. ½	D. Ind	Water has yellow tint, odd taste. FT.
Sand	R-50 46.0	7- -53 7-20-54	J	D. Ind	Supplies sawmill. Basalt 42 to 117 ft. Ft. Temp 51.
Gravel, fine	102.7 102.6	11-26-52 3-17-53	J. 1	D	Can be pumped dry in ½-hr. Rapid recovery. L. H.
..	28.0	11-25-52	P. ¼	D	FT. Temp 50.
..	1.4	11-26-52	S. ¾	D	Supplies two homes. Water tastes odd, stains sink green. FT.
..	15.0	. .do. .	S. ½	D	Temp 51.
Clay, red and rocks 4-12 in. diameter	9.8	11-20-52	P. 1	D	Dug through 11 ft of clay and "rocks" to bedrock.
Shale(?)	R-54	11- -51	J. 1½	S	Well in basalt-71 ft, water tastes and smells too strong of oil to drink. Oil film on standing water. Used successfully for irrigation. FT.

Table 1.--Records of representative wells in Lewis County, Washington--Con.

Well no.	Owner or tenant	Topography Altitude (feet)	Type of well	Depth of well (feet)	Diameter of well (inches)	Depth of casing (feet)	Water-bearing zone(s) Depth to top (feet)	Water-bearing zone(s) Thickness (feet)	Character of material	Water level Below datum (feet)	Water level Date	Pump, type H. P.	Use	Remarks
	T. 12 N., R. 2 W.--Con.													
17C1	Gus Milbredt	H. 700	Dg	22.6	48	0	16	6	Clay	16.6	11-20-52	S. ½	D. S	Dug entirely in clay. Temp 50.
17H1	William Reinke	U. 530	Dg	9.9	48	5	..	..	..	6.4	11-25-52	S. ½	D	Adequate supply.
17M1	J. A. Smith	V. 450	Dr	65	6	65	..	..	..	R-50	10- -52	J. 1	D	Yielded only 30 gpd in Oct. 1952.
17N1	Otto Ollie	V. 430	Dg	16.2	42	..	..	..	..	10.1	11-21-52	S	D. S	Supply adequate since deepening 2 ft in September 1952.
17R1	Clark Nicewanger	H. 490	Dg	15.4	48(?)	..	..	..	..	10.5	11-25-52	S. 1	D. S	Flows in winter months. Drilled 143-ft dry well in 1946. FT. Temp 52.
18E1	W. D. Holman	H. 650	Dg	10	100	0	..	..	Clay	R- 1	..	G	D. S	Well "spring-fed". Adequate supply.
18F1	F. M. Palmrose	H. 650	Dg	8.5	96	0	..	..	..	5.6	11-20-52	G	D. S	Adequate supply.
18F2	. . . .do. . . .	H. 640	Dg	35	42	0	..	..	..	31.1	. .do. .	P. (H)	S	Temp 49.
18G1	Jesse Gans	H. 680	Dg	47.0	48	0	..	..	..	44.0	11-21-52	J. ½	D. S	Iron in water. FT. Temp 49.
18H1	Ed Henry	V. 440	Dg	17.6	60	6	..	..	Clay, blue, and gravel	14.5	. .do. .	S. ½	D	Inadequate supply. Slow recovery. Water tastes odd.
18K1	Emil Wirta	H. 560	Dg	7.7	48	7.7	..	..	Clay, hard	3.3	. .do. .	S. ¾	D. S	Well located near stream.
19A1	J. B. Skidmore	U. 510	Dg	42.4	72	7	..	..	..	35.6	11-25-52	P. ½	NU	Well in hard clay from 7-42 ft. Can be pumped dry. FT.
*19E1	Herman VonRotz	V.	Dg	23.9	42	10	..	..	..	22.3	12- 9-52	S. ½	D	Inadequate supply. Water hard; gray scum when heated.
19H1	B. E. Yocom	U. 470	Dg	55	48	55	..	..	..	R-49	..	P	D. S	Has supplied 2000 chickens.
19J1	D. H. Fletcher	U. 473	Dr	240	6	..	..	..	..	R-60	..	P. 1	D	FT.
19L1	Bill Hillard	U. 430	Dg	30	36	4	..	..	Clay, hard	R- 8	. .do. .	S	D	Well dug in clay "hardpan".
19Q1	Victor Lilja	U. 432	Dg	20.3	60-48	8	..	..	..	17.1	1- 7-53	B	D	Clay "hardpan" 9-20 ft. Temp 50.
20A1	Walter Bettin	H. 550	Dg	10.5	36	6	..	..	..	7.9	11-25-52	S	D. S	Can be pumped dry.
20C1	Charles Ollie	V. 448	Dg	71	60(?)	70	..	..	..	67.6	11-21-52	P. ½	D	Hard formation 60 to 70 ft.

*19E1 Should be 12 N., R. 1 W.

Table 1.--Records of representative wells in Lewis County, Washington--Con.

Well no.	Owner or tenant	Topography Altitude (feet)	Type of well	Depth of well (feet)	Diameter of well (inches)	Depth of casing (feet)	Water-bearing Depth to top (feet)	Water-bearing Thickness (feet)	Character of material	Water level Below datum (feet)	Water level Date	Pump, type H. P.	Use	Remarks
	T. 12 N., R. 2 W.--Con.													
20K1	Fred Lindquist	U. 430	Dg	18	42	8	..	..	..	R-10	..	P ¼	D	Can be pumped dry.
20Q1	William Blum	U. 463	Dg	39.3	39	..	..	..	..	41.0	11-21-52	J	D, S	FT. Temp 50.
20M1	Stella Hunt	U. 450	Dr	59	8	59	..	..	Sand	R-27	..	J. 1½	D, Irr	Report "plenty of water".
20J1	J. W. Bortnem	U. 444	Dg-Bd	46	21-4	46	..	..	..	R-28	..	J. ½	D, S	Well dug 23 ft. Recovers rapidly.
20L1	Walter M. Foster	U. 405	Dg	27.4	58-48	8	..	..	..	21.5	11-21-52	S. ½	D, S	Water has iron taste; stains clothes yellow. FT. Temp 49.
20M1	A. J. Fitch	U. 440	Dg	19.4	36	8	..	..	..	11.3	11-24-52	S	D, S	Water tastes odd after heavy rain.
20P1	T. S. Chastain	U. 420	Dg	31.8	60	0	..	..	..	30.1	11-21-52	P. (H)	D	Inadequate supply.
20P2	. . . .do. . . .	U. 415	Dg	28.2	48	0	..	..	..	26.5	. .do. .	N	NU	
21D1	Mrs. C. A. Rice	U. 440	Dg	4.3	66	0	..	..	Gravel and clay, hard	1.3	11-26-52	S. ¼	D	FT. Temp 48.
21K1	Annie Fraser	U. 450	Dg	40	56-48	4.5	..	..	..	31.5	11-25-52	P. ½	D, S	Temp 49.
21K1	L. S. Cass	U. 400	Dg	52.7	36	6	..	..	Cobbles and gravel	47.5	11-26-52	J. ¾	D, S	Deepened well 5 ft in Oct. 1952.
21L1	..	U. 435	Dg	56.7	36(?)	..	..	..	..	53.8	. .do. .	P. ½	NU	Temp 48.
22A1	E. J. Schwartz	U. 430	Dg	15	36	15	9	6	Gravel	R-9	..	S	D, S	Rapid recovery.
22A2	. . . .do. . . .	U. 430	Dg	45	42(?)	12	..	..	..	R-38	..	P. (H)	NU	Bottom 10 ft of well cased, also.
22L1	George Epley	U. 440	Dg	93.1	44	5	..	..	..	90.6	. .do. .	Sb	D, S	Bottom 10 ft of well cased, also. Temp 51.
22L2	Toivo Kaija	U. 425	Dg	88.0	48	7½	..	..	..	86.4	12-12-52	P. ½	D	Temp 50.
22Q1	Albert Harris	U. 388	Dg	26.7	36	26	..	..	..	24.2	. .do. .	S. ½	D	FT. Temp 51.
22R1	Joseph Lummer	U. 420	Dg	22.0	50	3	..	..	..	15.6	. .do. .	S	D	Dug in cemented clay and gravel. Temp 50.
23A1	Joe Meier	U. 460	Dg	20	48	20	12	8	Gravel and sand	R-8	..	S. ¼	D, S	Water level rises rapidly after heavy rain.

Table 1.--Records of representative

Well no.	Owner or tenant	Topography Altitude (feet)	Type of well	Depth of well (feet)	Diameter of well (inches)	Depth of casing (feet)	Water-bearing Depth to top (feet)	Water-bearing Thickness (feet)
	T. 12 N., R. 2 W.--Con.							
23B1	John Mosely	U. 465	Dg	41.4	48	..	40	1
23C1	R.L. Hofmann	U. 464	Dg	41.7	48	6	..	..
23E1	William Schaefer	U. 454	Dg	69.2	40	5	74	1
23H1	Joe Waller	U. 493	Dr	134	6	134	..	..
23M1	Emil Hofmann	U. 473	Dr	128	6	128	100	28
23M2	. . . .do. . . .	U. 473	Dr	98	6	98	..	..
23P1	Harold Klessen	U. 431	Dg	54	..	54	..	..
23R1	Evelyn Driskell	U. 444	Dg	11.1	48	..	..	..
24B1	Ben Ruether	U. 482	Dg	35.3	40	7.9	..	..
24B2	Charles P. Ruether	U. 470	Dr	72.2	6	72	70	2
24C1	Ben Meier	U. 475	Dg	30.7	72-42	6	..	..
24H1	Carl D. Bailey	U. 470	Dg	22	60	8	18	4
24J1	Joe Bremgartner	U. 474	Dg	21.7	30	9	..	..
24M1	M. J. Pluard	U. 462	Dg	13.5	45	4	..	..
24N1	Adolph Legat	U. 463	Dg	21.1	52-40	21	..	..
24N2	Sherman Rarey	U. 466	Dg	21.8	36	22	..	..
24N3	Harold Lockmiller	U. 449	Dg	13.7	42	8	..	..
24Q1	William Sorensen	U. 476	Dg	16.0	36	..	..	..
25A1	O. L. Geer	U. 480	Dg	41.6	38-44	30	30	12

wells in Lewis County, Washington--Con.

Zone(s) Character of material	Water level Below datum (feet)	Water level Date	Pump, type H. P.	Use	Remarks
Clay and "rock"	2.1	12-11-52	J, ½	D, S	Rapid recovery.
..	36.1	12-10-52	J, ½	D, S	Report little fluctuation of water level. Low yield. Iron in water. Temp 51.
Sand	62.2	12-12-52	P, ½	D, S	Slow recovery. Water leaves yellow scum on drinking glass.
..	R-43	August 1951	T, 2	D, S	Bailed 20 gpm, dd 22 ft. Water-bearing material at 3 levels.
Sand and "pea" gravel	75.5	12-11-52	Sb, ½	D, S	Yield 17 gpm. Casing perforated 110-120 ft.
..	R-84	..	1	NU	Supply adequate for domestic use.
..	R-42	..	J, ½	D	Adequate supply.
..	1.2	12-10-52	S	D	FT, Temp 52.
..	29.7	12- 4-52	J, ½	D, S	Rapid recovery. Report well often goes dry in late December.
Sand, coarse	8.8	12- 5-52	J, ¼	D, S	Bailed ½ hr at 30 gpm; dd 21 ft. Rapid recovery. L, FT.
Gravel and clay	22.5	. .do. .	S, ½	D, S	Clay is sandy. Iron in water.
Sand and weathered gravel	..	..	S, ¼	D, S	Water milky after heavy rain. Iron in water.
..	15.3	12- 5-52	S	D, S	Water hard, since 1950.
..	4.7	12-10-52	S, ¼	D	Temp 49.
..	14.5	. .do. .	S	D, S	Adequate supply.
..	3.2	. .do. .	S, ⅓	D	Dug through "hardpan". Temp 46.
..	4.9	. .do. .	S	D	Can be pumped dry. Temp 48.
Gravel	9.3	. .do. .	S	D, S	Water soft. Temp 49.
Gravel and clay cemented, red	29.4 30.6	9-18-52 12-10-52	J, 1	D, S	Reports little seasonal change in water level.

Table 1.--Records of representative wells in Lewis County, Washington--Con.

Well no.	Owner or tenant	Topography Altitude (feet)	Type of well	Depth of well (feet)	Diameter of well (inches)	Depth of casing (feet)	Water-bearing zone(s) Depth to top (feet)	Water-bearing zone(s) Thickness (feet)	Character of material	Water level Below datum (feet)	Water level Date	Pump, type H. P.	Use	Remarks
	T. 12 N., R. 2 W.--Con.													
25C1	Douglas Mickelson	U. 471	Dr	52	6	53	..	..	Sand	21.4	12-10-52	J. ½	D. S	Adequate supply.
25D1	William Franz	U. 473	Dg	25.0	24	24	..	..	Clay, red	18.2	12-30-52	S. ½	D. S	Use about 100 gpd. Supply inadequate.
25D2	Joseph Meier	U. 480	Dg	40.1	30	40	..	..	..	33.1	. .do. .	P. (H)	NU	FT.
25E1	Roland Butler	U. 480	Dg	34.2	42	5.5	..	..	..	16.5	12-30-52	S. ½	D. S	Water entering well at bottom of casing 12-30-52.
25G1	Carl Radant	U. 483	Dg	47	36	47	..	..	Gravel and boulders, cemented	R-34	..	J. 1	D. S	Dug through 13 ft of "caving" clay above gravel and "rock".
25H1	Charles Acord	U. 478	Dg	33	72 by 60 60(?)	27-32	24	8	Gravel	25.7	5-13-53	S. ½	D	Spring about 1000 ft east, 22 ft lower than house. L.
26E1	John Kirn	U. 460	Dg	64.7	48	70(?)	..	..	..	54.8	5-14-53	J. 1	D	Can be pumped dry.
26K1	L. R. McEwan	U. 476	Dg	52.5	..	..	..	..	..	39.3	. .do. .	-. 1	D	Pumped for 2 min before measurement. Slow recovery.
26L1	--Large	U. 468	Dg	46.8	48-42	3.4	..	..	..	36.5	. .do. .	P. (H)	NU	House vacant.
26M2	T. L. Cline	U. 470	Dr	127	6	..	..	..	Gravel	46.1	. .do. .	P. ¾	D. S	Drilled through clay and gravel.
26R1	Woodrow Sipp	U. 500	Dr	122.2	6	122½	..	..	..	58.1 56.4	12-24-52 5-13-53	P. 1½	D. S	Water soft.
27A1	Frank Roppert	U. 418	Dg	31	68-48	4.5	..	..	..	31.2	12-11-52	S	D	Temp 50.
27A2	Lynal Longsine	U. 447	Dg	50.3	54	13	..	..	..	46.8	12-12-52	J. ½	D	Temp 51.
27B1	Ole Reinseth	U. 440	Dg	75.8	36	6.5	..	..	..	70.2	. .do. .	P	NU	House vacant. FT. Temp 50.
27B2	F. R. Longnecker	U. 413	Dg	37.4	48	6	..	..	..	34.0	. .do. .	J. ½	D. S	Adequate supply.
27C1	Fred Eichorst	U. 455	Dg	99.2	..	6	..	..	..	91.2	12-11-52	P	D. S	. . . .Do. . . .
27D1	W. P. McCarthy	U. 460	Dr	127.3	6	135	125	10	Gravel and sand	99.3	. .do. .	P	D	Casing perforated. Well recovers rapidly.
27F1	Ole Reinseth	U. 460	Dg	101.5	44-36	5	..	..	"Rock" and clay	96.4?	. .do. .	P. 1	D. S	Adequate supply.
27F2	T. L. Sturdevant	U. 470	Dg	108	42	5	..	..	..	99.1	12-12-52	Sb. ½	D. S	. . . .Do. . . .

Table 1.--Records of representative

Well no.	Owner or tenant	Topography Altitude (feet)	Type of well	Depth of well (feet)	Diameter of well (inches)	Depth of casing (feet)	Water-bearing Depth to top (feet)	Water-bearing Thickness (feet)
	T. 12 N., R. 2 W.--Con.							
27G1	William Mannikko	U. 462	Dg	77	48	6	..	..
27M1	..	U. 430	Dg	23.6	36	0	..	..
27R1	G. Frelich	U. 465	Dg	67	48	10	51	16
28E1	A. Arola	U. 340	Dg	21.0	60	4	..	..
28H1	M. R. Alexander	U. 457	Dr	128.5	6	125	100(?)	..
28J1	City of Winlock Well no.2	H. 365	Dr	260	12	..	..	..
28M1	Bert Johnson	U. 404	Dr	66	6	60	55	11
28R1	City of Winlock Well no.1	H. 355	Dr	55	8	55	..	..
29A1	John Hakola, Sr.	U. 340	Dg	17.9	42-36	6.5	..	..
29D1	Toivo Koski	U. 425	Dg	17.5	60-48	4.5	..	..
29G1	Robert Hakola	U. 406	Dg	53.6	24	50-53	..	..
29H1	Hugo Blumstrom	U. 410	Dg	53.0	48	4	40	13
29J1	George Merilainen	U. 418	Dg	61.4	36 by 36	..	..	..
29K1	Robert Johnson	U. 408	Dg	57.8	48	8	..	..
29L1	William Ojala	U. 419	Dg	37.1	48-36	8	..	..
29M1	Ida Hendrickson	U. 440	Dg	35.4	42	21	..	..
30G1	Oscar Wedam	H. 460	Dr	328	8-6	29	314	14
30H1	Clarence Goeder	U. 420	Dg-Dr	185	8	..	..	..
31B1	Marvin G. Perkins	U. 545	Dr	207	6	126	123	17
31C1	Felix Anderson	H. 640	Dr	153	6	125	150	3

Wells in Lewis County, Washington--Con.

Zone(s) / Character of material	Water level: Below datum (feet)	Water level: Date	Pump, type H. P.	Use	Remarks
..	R-57	..	J, 1	D, S	Water has iron taste. Report water level 47 ft in summer.
..	17.9	12-22-52	S	D	Adequate supply.
Gravel and sand, packed	51.6	5-14-53	J, 1	D, S	Report water level constant year around; high yield. L.
..	0.8	12-31-52	S, ¼	D	
Sand	100.8	12-12-52	J, 1	D	Water-bearing material at 3 levels.
Gravel and sand	R-13	..	T, 7½	PS	Pumped 18 gpm, dd 50 ft. L.
Grvl, rather fine	R-55	..	J, 1	D	Adequate supply. L.
Gravel and sand	R-16	..	T, 7½	PS	*
Gravel and clay	9.0	12-31-52	P, 1/6	D	Report water level 14-16 ft below land surface in summer. Water has "mineral" taste. FT.
..	6.4	. .do. .	S, ½	D, S	Inadequate supply. Waters 2000 chickens and 2 cows.
..	51.2	. .do. .	J, ¼	D, S	Supplies 10 head of stock.
Sand	50.6	12-30-52	P, ¾	D	Adequate supply.
..	56.7	12- 4-52	J, ½	D	
..	54.3	12-30-52	J, ½	D	Adequate supply. FT.
..	33.7	12-31-52	P, ½	D, S	Report water level nearly constant year around. Rapid recovery.
..	24.4	. .do. .	P, ¾	D	Adequate supply.
Sand	R-22	June 1952	Sb, 5	D, S	Water soft. L.
..	..	..	P, ¾	D, S	Drilled in old well.
Shale, sandy	R-30	2- 6-52	T, 5	Irr	Baled 40 gpm, dd 37 ft. Yield originally higher. L.
Gravel, blue-black	..	..	P, ¾	D, S	Adequate supply. Water black for 3 days after earthquake, 1949. L.

*Pumped 125 gpm, dd 39 ft. Supplies all of Winlock in winter. L.

Table 1.—Records of representative wells in Lewis County, Washington—Con.

Well no.	Owner or tenant	Topography Altitude (feet)	Type of well	Depth of well (feet)	Diameter of well (inches)	Depth of casing (feet)	Water-bearing beds: Depth to top (feet)	Water-bearing beds: Thickness (feet)	Character of material	Water level: Below datum (feet)	Water level: Date	Pump, type H. P.	Use	Remarks
	T. 12 N., R. 2 W.--Con.													
32D1	Carl Maki	U. 495	Dg	40.1	48	..	37	6	"Quicksand", white	26.0	5-15-53	J, ½	D, S	L.
32Q1	Emil Jarvi	U. 405	Dr	315	8-6	315	100± 300±	.. 1	Gravel, fine	R-60	1949	P, 3	D	Casing perforated. Clay and gravel overlie gray siltstone. Spring on property dry since earthquake (1949).
33B1	City of Winlock Well No.3	H. 320	Dg-Dr	60	28	..	..	..	Gravel and Sand	R-12	..	T, 3	PS	Pumped 80 gpm, dd 48 ft. L.
34B1	H. W. Leonard	U. 470	Dr	180	4	..	..	..	..	64.9	12-23-52	Sb	D	Water hard.
34D1	John Zion	U. 450	Dg	62.4	48	5.4	..	..	..	48.8	12-22-52	J, ½	D, S	Has never been pumped dry.
34D2	. . . .do. . . .	U. 465	Dg	75.6	48	5.3	..	..	Sand and gravel	64.4	. .do. .	P, ¾	D, S	Can be pumped dry. Rapid recovery.
34D3	Mrs. H. N. Colter	U. 460	Dg	70.2	56-42	6	..	..	..	61.6	. .do. .	P, ½	D	Adequate supply.
34D4	Robert Ronde	U. 460	Dg	73.8	60-48	4.5	..	..	..	68.6	. .do. .	Sb, ½	D, S	Water soft.
34D5	R. W. Richter	U. 468	Dg	72.7	36	4.8	..	..	..	66.4	12-23-52	J, ½	D	Adequate supply.
34F1	..	U. 465	Dg	75.9	48-44	5	..	..	..	60.3	. .do. .	J, 1	D	FT.
34F2	V. O. Harkins	U. 470	Dr	176	8	171	86	84	Sand and gravel	R-65	11-29-55	..	..	Pumped 230 gpm, dd 25 ft. L.
34G1	Andrew Hinen	U. 475	Dr	185	8	185	120 185	45 ..	Gravel and sand . . . .do. . . .	R-70	May 1952	T, 10	D, S	Has pumped 120 gpm while irrigating. L.
34G2	William Karki	U. 470	Dg	77.5	48	3.2	..	..	..	65.9	12-23-52	J, ½	D, S	Water soft.
34H1	E. W. Blaisdell	U. 465	Dg	45.6	40	5.5	..	..	..	40.6	. .do. .	J, ½	D, S	Slow recovery. FT.
34J1	Hans Anderson	U. 460	Dg	31.3	42	7	..	..	..	25.3	. .do. .	S, ¼	D, S	Adequate supply.
35B1	Clayton Mickelsen	U. 460	Dr	54.5	8	3.5	..	..	..	25.7	9-18-52	N	NU	Well originally 132 ft deep.
35B2	. . . .do. . . .	U. 460	Dr	160.8	8	160	90 150	29 10	Gravel, sandy coarse. Gravel, coarse	25.7	4-10-53	T	Irr	Bailed 60 gpm, dd 8 ft. L. H.
35E1	Henry Schultz	U. 458	Dg	35.3	48	5	..	..	..	25.9	12-23-52	J	D, S	Report 10 ft of water in well in summer.
35E3	Ted Stevens	U. 463	Dg	41.5	55-42	3.2	..	..	..	37.1	. .do. .	P, ½	D	Rapid recovery.
35F1	P. A. Jergensen	U. 460	Dg	41.3	48-42	4.5	..	..	..	36.3	. .do. .	P, ½	D, S	Adequate supply.
35F2	J. E. Huber	U. 465	Dg	44.8	36	7	..	..	..	39.9	. .do. .	J, ½	D	Dug through 30 ft yellow clay and weathered gravel above 5 ft of red-yellow sand.

Table 1.--Records of representative wells in Lewis County, Washington--Con.

Well no.	Owner or tenant	Topography Altitude (feet)	Type of well	Depth of well (feet)	Diameter of well (inches)	Depth of casing (feet)	Water-bearing Depth to top (feet)	Water-bearing Thickness (feet)	Source(s) Character of material	Water level Below datum (feet)	Water level Date	Pump, type H. P.	Use	Remarks
	T. 12 N., R. 2 W.--Con.													
35G1	Ralph Champ	U. 470	Dg	58.7	41-36	58	..	..	..	46.2	12-24-54	J. ½	D	FT
35G2	. . . .do. . . .	U. 470	Dg-Dr	129	8	129	117	12	Sand and gravel	R-42	4-13-53	..	..	Bailed 50 gpm, dd 22 ft. Dug in 12/2W-35G1. L.
35H1	Clayton Mickelsen	U. 487	Dr	129	6	130	..	..	..	57.9	9-18-52	J. 1	D, S	Bailed 17+ gpm, dd 45 ft. L.
35K1	C. A. Graham	U. 460	Dg	47.9	48	4	45	3	Sand and gravel	R-40 41.5	11- 1-52 12-24-52	P. ½	D, S	Well pumped before measurement 12/24/52. L.
35M1	Eino Bay	U. 468	Dg	47.9	48	5.5	..	..	..	40.5	12-23-52	J. ½	D	Adequate supply.
35M2	J. H. Crampton	U. 468	Dg	45	42(?)	..	..	..	Gravel(?)	R-28	Dec. 1951	..	D, C	Hard clay; red above, gray below.
35P1	Joe Arthl	U. 445	Dg	18	48	6	..	..	..	R-14	..	S	D, S	Water soft.
35R1	Gust Nyberg	U. 485	Dg	58.3	48	4	..	..	Gravel and sand	R-53 54.4	Jan. 1948 12-24-52	J. ½	D, S	Encountered thick layer of clay.
36N1	Edward Lampitt	H. 415	Dg	25	48	9	..	..	Sand and cobbles	R-18 12.8	Summer 1952 12-24-52	S. ½	D, S	Report water level 17-18 ft be-102 land surface all summer.
	T. 12 N., R. 3 W.													
4B1	John C. Stech	H. 1160	Dg	15	21	14	..	..	Gravel	R- 8	Summer 1953	S. (H)	D	Brown stain from water. "Hardpan" overlies gravel.
5D1	--Unterwegner	V. 260	Dg	20+	42	20+	..	..	Clay	R- 6	June 1952	S. ½	D	Dug entirely in clay. Low yield.
5F1	G. J. Valentine	H. 320	Dg	46.6	42±	47	..	..	..	17.3	12-29-53	J. ½	D	Adequate supply. Temp 49.
8C1	V. W. Shaklee	V. 283	Dg	27	30	27	27	..	Gravel	R- 0	..	S. ½	D	Adequate supply. L.
13M1	Matt Kangas	H. 933	Dg	42.3	54	0	..	..	..	34.8	11-21-52	N	S	Report bedrock at 50 ft.
13F1	John King	V. 518	Dr	220	6	55	58	..	..	11.1	1- 7-53	P. ½	D	Supplies 4000 chickens. L.
24G1	Irvin Thomas	V. 455	Dr	55	8	55	..	..	Clay(?)	17.4	. .do. .	J. ½	D	Well in alternate clay and shale. Water hard, has mineral taste. Iron in water.
24J1	Ludwig Heitzmann	V. 442	Dg	30	54	10	10	20	..	R- 0	Winter	S. ½	D	Well dug in shale. Supply barely adequate in fall.
30Q1	Louis Hill	V. 324	Dg	20	6 30	0-16 16-20	16½	18	Gravel	R-18	..	S. ½	D	Pumps dry in 20 min. Water hard, "rusty". L. Two other dug wells on property supply stock.
31R1	John A. Thompson	V. 330	Dr	19½	8	..	..	..	Shale(?)	R-16½	..	S. ½	D, S	Slow recovery.

Table 1.--Records of representative wells in Lewis County, Washington--Con.

Well No.	Owner or tenant	Topography (Alt. in feet)	Type of well	Depth of well (feet)	Diameter of well (inches)	Depth of casing (feet)	Water-bearing bed: Depth to top (feet)	Water-bearing bed: Thickness (feet)	Character of material	Water Level: Below datum (feet)	Water Level: Date	Pump. type H. P.	Use	Remarks
	T. 12 N., R. 4 W.--Con.													
1B1	E. M. Roundtree	T. 270	Dg	15.0	44 by 44	5	..	..	Gravel	5.2	12-31-53	S. ½	D	Gravel overlies blue shale.
1E1	Dean Wake	V. 250	Dg	18	32	..	..	..	..	R-12	July 1954	S. ½	D	Encountered limbs and twigs at 12 ft. Water hard.
1M1	John Hogue	V. 255	Dg	20(?)	36	..	..	..	Sand(?)	..	..	S. ½	D	Water hard, at times "rusty".
1M1	Boistfort School	V. 259	Dg	23.2	36 by 36	23	..	..	..	16.0	8- 4-54	S. 5	Inst	Water hard.
1N2	. . . .do. . . .	V. 258	Dr	465±	6	..	..	..	..	..	..	N	NU	Encountered salt water
2G1	Elmer Ellingson	V. 255	Dg	19.0	30	10	..	..	Silt	8.2	12-31-53	S. ½	D	"Soapstone" at 11 ft. FT.
2P1	Emil Berg	V. 320	Dr	80	6	23	..	..	Sand	R-12	July 1950	S. ¼	D, S	Water soft.
2Q1	E. A. Born	V. 274	Dg	27.0	36	28	..	..	Sand and gravel	13.7	8- 5-54	S. ¼	D	Well pumps dry; water "rusty".
4A1	Emil Berg	V.	Dg	10.1	48 by 48	0	..	..	..	5.3	. .do. .	S. ½	D, S	Well pumps dry. Water soft.
8J1	Merle Henry	V. 432	Dg	16	24	16	..	..	Sandstone, gray	R-15	..	S. ½	D	Well pumps dry;. Water hard, "rusty" when boiled.
9R1	Edwin Smith	V. 400	Dg	14	36	..	..	..	Sandstone	..	..	S. ½	D, S	Water "rusty" in rainy weather.
12D1	--Banjuh	V. 261	Dg	16	48	16	14	2	Gravel	R- 2	..	S. ½	D, S	Sandy loam overlies gravel.
12D2	Boistfort Church	V. 267	Dr	100+	6	0	..	..	..	..	..	..	..	L.
12M1	Frank Riedl	V. 279	Dg	12.1	14	13½	12	24	Gravel	4.4	12-31-53	S. ½	D, S	Loam and 7 ft of sandy gravel overlie gravel. Rapid recovery. FT.
13D1	Furg Roundtree	V. 261	Dg	18	30	18	..	..	. . . .do. . . .	R-13 R 6	Oct. 1953 April 1954	S. ½	D, C	Adequate supply. Water soft.
13M1	George Alden	V. 330	Dr	76.6	7	..	79	2	Gravel, pea	3.4	3-20-54	J	D, S	Report water softer when water level high; tastes odd in dry weather. Water from former well by creek tasted of "soda" after earthquake. L. H.
14A1	H. C. Livingston	V. 302	Dg	21	48	0	..	..	Shale, gray	R-17	8- 4-54	S. ¼	D	Well pumps dry. Supplies two houses.

Table 1.--Records of representative wells in Lewis County, Washington--Con.

Well no.	Owner or tenant	Topography Altitude (feet)	Type of well	Depth of well (feet)	Diameter of well (inches)	Depth of casing (feet)	Water-bearing: Depth to top (feet)	Water-bearing: Thickness (feet)	Use	Remarks
	T. 12 N., R. 4 W.--Con.									
24C1	Harold Parker	T. 365	Dg	25.6	60	25½	..	..	D, S	Soft water.
25B1	Lawrence Aust	V. 317	Dg	30	30	30	..	..	D, S	Iron in water. FT.
	T. 12 N., R. 5 W.									
2C1	Frank Rumbalski	V. 475	Dr	200	6	50	..	..	NU	Encountered light. gray rock at 150 ft. with crystals and small fossils. Water hard.
	T. 12 N., R. 1 E.									
1A1	..	T. 607	Dg	..	..	..	..	..	D, S	Supply adequate, with caution.
2C1	J. R. Clark	T. 650	Dg	48.3	42 by 42	8	..	..	D	Report water high in silica; leaves brown stain.
2E1	William Hansen	T. 690	Dr	237.6	6	244	220	28	D, S	L. FT. Temp 52.
2N1	Elmer H. Powell	T. 670	Dr	241	12	241	226	9	Irr	Pumped 4 hr at 180 gpm, dd 40 ft. L.
2P1	E. A. Shore	T. 675	Dg	54.8	36	7.3	52	6	D	Goes dry in fall. Well formerly 40 ft deep, and never went dry till area logged off.
2Q1	Lawrence Roe	T. 708	Dg	42	42 by 42	8	..	..	D, S	Well dry 6 weeks in fall, 1952.
2R1	Harvey Collar	T. 738	Dg	70	48	25	..	..	D	Brown stain from water.
3A1	Oscar Dutcher	T. 637	Dg	19	39 by 42	4	..	..	D	Deepened to 25 ft in fall, 1952.
3C1	Ed Zandecky	T. 616	Dg	28.7	..	8	..	..	D	Went dry first time in fall, 1952. Temp 52.
3F1	Ira Baker	T. 636	Dg-Dr	75	8	75	..	..	D, S	Supplies four houses. Rapid recovery.
3L1	Harry Collins	T. 642	Dg	44	42 by 42	3	..	..	D	Well went dry 8-17-53.
3Q1	Jake Blair	T. 637	Dg	52	42 by 42	8½	49	2	D, S	Clay(8½ ft) overlies gravel. Red stain from water. FT.
3R1	R. E. Schwaynoch	T. 652	Dg	56	51	4	..	..	D, S	Some "rusty" stain from water.

wells in Lewis County, Washington--Con.

Zone(s)	Water level: Below datum (feet)	Water level: Date	Pump, type H. P.	Use	Remarks
Character of material					
..	8.4	..	S. ½	D, S	Soft water.
..	R-16	..	S. ½	D, S	Iron in water. FT.
Limestone(?)	7.7	8-10-54	N	NU	Encountered light. gray rock at 150 ft. with crystals and small fossils. Water hard.
Gravel and clay	..	..	J	D, S	Supply adequate, with caution.
. . . .do. . . .	42.7	9- 2-53	J. ½	D	Report water high in silica; leaves brown stain.
Sand and gravel	212.5	. .do. .	P, 1½	D, S	L. FT. Temp 52.
Gravel and yellow clay	R-214 R-195	Feb. 1951 5- 3-52	T. 25	Irr	Pumped 4 hr at 180 gpm, dd 40 ft. L.
Gravel, cemented	49.6	9-24-54	B	D	Goes dry in fall. Well formerly 40 ft deep, and never went dry till area logged off.
Clay, yellow	..	..	J, ½	D, S	Well dry 6 weeks in fall, 1952.
..	..	..	J, ½	D	Brown stain from water.
Clay(?)	13.1	9- 2-53	S. ½	D	Deepened to 25 ft in fall, 1952.
Gravel	18.0	. .do. .	S. (H)	D	Went dry first time in fall, 1952. Temp 52.
Gravel and sand	R- 72	..	J, 1	D, S	Supplies four houses. Rapid recovery.
..	Dry	9- 1-53	P, (H)	D	Well went dry 8-17-53.
Gravel	R- 49	..	P. ½	D, S	Clay(8½ ft) overlies gravel. Red stain from water. FT.
. . . .do. . . .	11.7	8-31-53	J	D, S	Some "rusty" stain from water.

Table 1.--Records of representative wells in Lewis County, Washington--Con.

Well no.	Owner or tenant	Topography Altitude (feet)	Type of well	Depth of well (feet)	Diameter of well (inches)	Depth of casing (feet)	Water-bearing zone(s) Depth to top (feet)	Water-bearing zone(s) Thickness (feet)	Character of material	Water level Below datum (feet)	Water level Date	Pump, type H. P.	Use	Remarks
	T. 12 N., R. 1 E.--Con.													
4D1	Lawrence Chapman	U. 707	Dg	62	..	0	..	..	"Clay"	..	..	J. ⅓	D. S	Some "rust" in water.
4P1	A. C. Blankenship	T. 580	Dr	150	6-5	150	134	..	Sand and gravel	R-125	1935	Sb. 2	D. S	First encountered gravel at 35 ft.
4Q1	Robert Steele	T. 607	Dr	165	6	165	..	..	Sand(?)	R-158	Sept. 1949	P. 1½	D. S	Had been pumping well two days.
5B1	John Bender	U. 655	Dg	29	6	29	..	..	..	..	..	S	D. S	Brown precipitate in water. Report second well 35 ft deep, yielded 50 gpm.
5D1	J. W. Bogar	H. 580	Dg	9	36	9	..	..	..	R-0	..	..	D	Well "spring-fed".
5E1	B. L. Newton	H. 643	Dr	120±	6	..	..	..	..	..	..	P. ¾	D	Has never been pumped dry.
5P1	Perry McNeely	T. 537	Dg	100	48 by 48	24	..	..	..	R-89½ R-96	June 1949 Nov. 1949	P. 1	D	Adequate supply.
6A1		H. 560												
6H1	Frances Finney	U. 640	Dg	26½	..	..	..	..	Gravel and yellow clay	..	..	S	D	Strong "rusty" stain from water.
6R1	J. R. Mericle	T. 535	Dg	87	..	..	..	..	..	..	..	J	D	Adequate supply.
8B1	John Gerrits	T. 540	Dg	80-90	..	..	..	..	..	R-75	Nov. 1952	J. ¾	D. S	Some iron in water.
8E1	J. H. Literal	T. 520	Dr	96	5	96	..	..	Gravel, cemented	R-64	1943	P. ¾	D	Some yellow stain from water.
8P1	Dr. J. A. Kehoe	T. 519	Dg-Dr	116	6	116	103	13	Gravel, fine, gray	R-85	..	J. 1	D	Dug to 89 ft; well blowing at that depth. FT.
8P2	. . . .do. . . .	T. 519	Dg-Dr	112	8	112	85 103	12 13	Sand and gravel Gravel, fine	R-85	..	T. 5	Irr	Both 8P1 and 8P2 are in old 89-ft dug well. L. FT. Temp 51.
8Q1	Jack C. Nelson	T. 527	Dg-Dr	100±	6	..	..	..	..	R-95	..	J. ¼	D. S	Was formerly a blowing well.
8Q2	. . . .do. . . .	T. 526	Dr	141	8	141	94 137	31 4	Gravel and sand Gravel, coarse, red	R-93	6-21-25	T. 20	Irr	Test pumped 215 gpm, dd 14 ft. Pumps 240 gpm while irrigating. L. FT.
9B1	George Blair	T. 605	Dr	163	6	163	..	..	..	R-149	..	P. 1½	D. S	Supplies two families. Water forms white crystalline deposit on aluminum.
9B2	Lacey Burchett	T. 596	Dg	148	48 by 48	12	..	..	Sand(?)	R-136	..	P. 1	D. S	Adequate supply.

Table 1.--Records of representative wells in Lewis County, Washington--Con.

Well no.	Owner or tenant	Topography Altitude (feet)	Type of well	Depth of well (feet)	Diameter of well (inches)	Depth of casing (feet)	Water-bearing zone(s) Depth to top (feet)	Water-bearing zone(s) Thickness (feet)	Character of material	Water level Below datum (feet)	Water level Date	Pump. type H. P.	Use	Remarks
	T. 12 N., R. 1 E.--Con.													
9N1	Anna Judd	T. 548	Dg	108.7	42	6	..	..	Sand(?)	105.8	8-29-53	P	D, S	Temp 53.
9Q1	C. E. Farr	T. 572	Dg	140.0	..	14	70 131	5(?) 11	Gravel, cemented	131.3	9-10-52	P, 1½	D, S	Deepened from 70 ft in 1930. "Blowing" well. A. H. L. Temp 51.
10A1	Arnold Hite	T. 652	Dg	27	36 by 36	8	..	..	....do....	R-23	8-27-53	S, ½	D, S	Inadequate supply. Brown stain from water.
10D1	George Althauser	T. 614	Dr	190	6	..	..	..	.. ..	..	..	P, 1	D, S	Adequate supply.
10F1	Earl Kerr	T. 598	Dg	158	42 by 42	12½	153	5	Gravel, tight	153.5	10-20-54	Sb, 2	D	*Blowing well. Report usually 5½-6. 12 ft at most, of water in well. L.
11B1	Joe Salzer	T. 715	Dr	90	6	90	..	..	..	R-50	..	P, ½	D, S	Adequate supply.
11C1	M. R. Cusick	T. 682	Dg	42-45	..	..	..	..	..	R-37½	Oct. 1952	J, ½	D, S	Brown stain from water.
11E1	W. R. Wilson	T. 656	Dg	27.6	60 by 60	10	..	..	Gravel, cemented	18.4	8-31-53	S, ½	D	.... Do ....
11H1	K. Paul Lewis	T. 710	Dg	47(?)	48	12	..	..	Gravel	31.3	..do..	J, 1	D, S	Much iron in water.
11N1	F. L. Guyer	T. 637	Dg	55.0	40	10	48	7	Gravel, cemented	48.8	8-29-53	J, ⅓	D, S	Cemented gravel entire depth. Red stain from water; hot water becomes blue when exposed to copper.
11N2	Walter Pries	T. 644	Dg	27.3	48 by 48	4	..	..	....do....	22.1	8-31-53	S, ½	D, S	Well dry in fall, 1952.
12D1	S. G. DeGross	T. 740	Dg	42.4	48	8	..	..	..	32.7	8-14-55	J, 2	D	*
12M1	Ivy Hills	T. 735	Dg	40	60 by 60	8	..	..	..	R-35	..	B	D	Water level low in fall, 1952.
12F1	S. G. DeGross	T. 565	Dr	357	4	357	343	14	Sand and gravel, fine	R-60	1952	T	D	Tested 50 gpm. Supplies three homes. L, FT, Temp 52.
12Q1	Vera Talbott	T. 562	Dr	354	4	90+	..	..	Gravel, fine	R-194	1953	P, 3	D, PS	Supplies 20 houses, 5 business establishments. FT.
13B1	Owen Merry	T. 558	Dr	170	6	170	150	20	....do....	74.6	3-23-55	..	D, C	Supplies restaurant, trailer court. Bailed 2 hr at 10 gpm, dd 80 ft. L, FT
13C1	H. Hammill	T. 561	Dr	165	5	118	..	..	Sand, gray	R-110	..	P, 2	D, S	Has filled in to 130 ft. Supplies 5 houses.

*Springs 70 ft lower on scarp north of well. FT.

Table 1.--Records of representative

Well no.	Owner or tenant	Topography Altitude (feet)	Type of well	Depth of well (feet)	Diameter of well (inches)	Depth of casing (feet)	Water-bearing Depth to top (feet)	Water-bearing Thickness (feet)
	T. 12 N., R. 1 E.--Con.							
13D1	--Kostick	T. 553	Dr	70	6	70	..	..
13D2	W. P. Althauser	T. 549	Dr	156	6	155	155	1
13K1	Leo Kaiser	T. 530	Dg	47.1	43 by 43	3	..	..
13L1	J. M. Bullock	T. 525	Dg	28.0	54 by 54	6	..	..
13N1	William Spath	T. 433	Dg-Dr	303	6	115	..	..
14B1	Ernest Runke	T. 660	Dg	34	42 by 42	5	..	..
14H1	Leo Kaiser	T. 535	Dr	162.0	6	162	160	2
15A1	Harold Keenan	T. 613	Dg	37.2	33 by 33	8	..	..
15B1	Nick Blanksma	T. 597	Dg	153	60(?)	10	..	..
15D1	A. G. Hadaller	T. 583	Dr	158	6	158	..	..
15J1	P. J. Harms	T. 483	Dr	173	6	176	165	9
17B1	S. G. DeGross	T. 534	Dr	137	6	137	120	17
17E1	L. D. Brenneis	T. 502	Dg	80	..	12	..	..
17M1	Frank Coutts	T. 498	Dg	78.1	39 by 39	8	..	..
17N1	W. J. Coutts	T. 500	Dr	120	12	120	80	40
17N2	A. S. Extine	T. 500	Dg	78	..	..	..	..
17P1	W. J. Coutts	T. 502	Dg	89	48 by 48	10	..	..
18A1	L. P. Lowe	T. 510	Dg	77.1	38 by 38	12	..	..
18B1	John Moltz	T. 502	Dg	71.6	48 by 36	8	67	7

wells in Lewis County, Washington--Con.

Zone(s) Character of material	Water level Below datum (feet)	Water level Date	Pump, type H. P.	Use	Remarks
Gravel	R- 50	..	P. 5	Ind	Supplies sawmill. Use 50-ft dug well for house.
Gravel, clean	R-142	July 1953	P. 1	D	Bailed 7 gpm, little dd. L.
Clay(?)	14.2	9-2-53	J. 1	D	Springs on property to West. FT.
Gravel	20.3	9-3-53	S. ½	D, S	Supplies two families.
..	106.7	7-6-55	N	NU	Tested 4½ gpm. Water salty. L. FT.
..	R-28	..	S. ½	D	Inadequate supply.
Sand and gravel	146.0	9-2-53	..	..	Bailed 8 gpm. L.
Gravel	36.5	9-3-53	J. ½	D, S	Pumps dry in ½ hour. Temp 52.
..	..	..	P. 1½	D, S	Has never been pumped dry.
..	R-128	..	P. ½	D, S	. . . .Do. . . .
"Shale", sandy	R-124	3-30-47	T. 3	D, S Irr	Pumped 4 hr at 30 gpm, 19 ft dd. L, FT.
"Quicksand" and gravel	R-100	9- 1-53	T. 7½	Irr	Deepened from 120 ft. Pumped 4 hr at 65 gpm, 35 ft dd. Rapid recovery.
..	R- 75	Fall 1951	J. ¾	D, S	Supply adequate.
Gravel and sand	73.3	9- 3-53	P. ½	D	Supply adequate. Temp 52.
Gravel, loose	R- 70	Aug. 1951	T. 5	Irr	Pumped 4 hr at 100 gpm, 23 ft dd. L.
..	..	..	J. 1	D	Supply adequate.
Gravel	R- 80	..	P. 1	D, S	. . . . Do . . . .
..	73.8	8-29-53	P. ¾	D, C	Well dug in gravel. Temp 52
Gravel	67.9	. .do. .	J. ½	D, S	Dug in clay and gravel. Temp 52.

Table 1.--Records of representative wells in Lewis County, Washington--Con.

Well no.	Owner or tenant	Topography Altitude (feet)	Type of well	Depth of well (feet)	Diameter of well (inches)	Depth of casing (feet)	Water-bearing Depth to top (feet)	Water-bearing Thickness (feet)	Character of material	Water level Below datum (feet)	Water level Date	Pump, type H. P.	Use	Remarks
	T. 12 N., R. 1 E.--Con.													
18D1	Albert Olsen	T. 480	Dg	50	48	6	..	..	..	..	..	J. ½	D. S	Supply usually adequate.
18E1	J. J. Logah	T. 466	Dg	45	72	7	44	1	Gravel and sand	R- 40	..	J. ½	D	Supplies two houses.
18K1	J. A. Johnson	T. 490	Dg	64.2	46 by 46	6	..	..	..	61.1	9- 3-53	P. ½	D. S	Brown stain in water. Temp. 51.
19D1	Cliff Oertli	T. 454	Dr	60	6	60	..	..	..	R- 40	9- -48	J. ¾	D	*
19E1	Fred Morton	T. 460	Dr	78	6	78	..	..	Gravel	R- 28	..	J	NU	House vacant.
19E2	Jerry Ryan	T. 460	Dg	42.6	48	14	..	..	..	42.5	1-30-53	J. ½	D	Water flowing across bottom of well when measured.
19E3	..	T. 460	Dg	21.4	48	8.5	..	..	..	Dry	.. do. .	B	NU	Water seeping into well from beneath casing 1-30-53.
20B1	E. E. Olson	T. 505	Dr	108	6	..	..	..	..	R- 88	..	Sb	D. S	Some brown stain from water.
20C1	George Bear	T. 504	Dr	93	6	93	..	..	..	..	..	P. ½	D. S	Supply adequate.
20F1	Ray Sachs	T. 490	Dg	91	..	0	..	..	Gravel and sand	..	..	J. ½	D. S	. . . .Do. . . .
22E1	W. E. Stepp	T. 340	Dg	22	60	4	..	..	Gravel	..	..	S. ½	D. S	Water hard, tastes "flat" in fall.
30D1	Martha Ike	M. 400	Dg	29.6	48	6	..	..	..	28.8	1-30-53	B	D	Supply usually adequate.
30R1	John W. Stinger	V. 198	Dg	14	..	14	..	..	Gravel	..	..	S. ½ S. ½	D	Some brown stain from water.
32L1	W. H. Byrd	V. 185	Dg	15½	24	15½	13	3	Gravel and sand, gray	R- 13	..	S. ½	D	Gravel and clay overlie aquifer. Goes dry in late summer. Water level varies with Cowlitz River.
33J1	Einar Due	T. 388	Dr	120	4	..	..	..	Sand, black	R- 35	..	Sb. ½	D. S	Additional 72-ft dug well goes dry in summer. Tested 13 gpm, dd 11 ft. FT.
	T. 12 N., R. 2 E.													
3J1	Mrs. E. J. Jouppi	V. 335	Dg	32	30	32	..	..	Gravel(?)	..	..	S	D	Supply adequate.
4B1	W. F. Lenz	T. 720	Dg	45	48 by 48	6	..	..	Gravel and clay	R- 29	Sept. 1953	P. ½	D. S	Pumped dry in fall, 1952.
4K1	W. H. Wilson	T. 685	Dr	95	10	122	41	..	Clay, sand, and gravel	R- 32	..	J. ¾	D	Well drilled to 270 ft; cased to 122 ft; plugged at 95 ft. Tested 15 gpm. Pumps sand. L. FT.

*Drilled through thick layer of white clay. Bailed 17 gpm.

Table 1.--Records of representative

Well No.	Owner or tenant	Topography (Altitude (feet)	Type of well	Depth of well (feet)	Diameter of well (inches)	Depth of casing (feet)	Water-bearing: Depth to top (feet)	Water-bearing: Thickness (feet)
	T. 12 N., R. 2 E.--Sec.							
4P1	Elmer Powell	T. 680	Dr	240	6	240	180	40
6M1	Mrs. Sally Smedgrass	H. 760	Dg	26	..	0	..	..
6Q1	Karl Zenkner	U. 930	Dg	40.8	..	..	..	..
8B1	C. T. Plant	U. 895	Dg	33	..	8	..	..
8M1	Rudolph Kaech	U.1020	Dr	220	6	200	..	..
8P1	Elmer Powell	T. 830	Dg	20	..	..	18	2
9A1	William Ludwig	T. 450	Dr	110	8	..	..	..
9B1	Dave Littlefield	T. 445	Dr	42	8	42	..	..
11A1	E. Sweet	T. 605	Dr	370	12-6	350	290 360	5 5
13B1	W. A. Aldrich	T. 621	Dr	118.6	8	122	90	32
14B1	E. W. Blaisdell	T. 582	Dr	143.7	10	320	65	71
16A1	Rudy Fries	H. 465	Dr	150	6	22	27 45	9 23
16B1	J. M. Stoner	T. 395	Dg	10	..	0	..	..
16Q1	William Godfrey	T. 387	Dg	<20	..	3	..	..
17C1	Ralph Steele	T. 680	Dg	20	72 by 72	8	..	..
17C2	Floyd Kinney	H. 815	Dg	17.4	42 by 42	9	..	..
17K1	Clark Plant	T. 678	Dg	19	48	6	..	..

wells in Lewis County, Washington--Con.

Zone(s) (Character of material)	Water level: Below datum (feet)	Water level: Date	Pump, type H. P.	Use	Remarks
Gravel and clay	R-180	9- 8-54	T. 7½	D, Irr	Tested 85 gpm. L. FT.
"Clay", yellow	R- 16	..	S. ½	D	Pumped dry in fall, 1952.
..	37.4	9-24-53	P. ½	D	Pumped dry in fall, 1952. Temp 52.
Gravel, cemented	R- 26	Oct. 1952	S. ¼	D	Supply adequate.
Gravel	R-120	..	Sb. 5	D, S, Irr	"Rock" 200 to 220 ft. Yield: 55 gpm. Brown and green stain from water. FT. Temp 50.
Clay, gravelly	R-12	..	S. ½	D, Irr	Yield: 5-10 gpm. Pumps from Silver Creek when needed.
Gravel and sand	55.0	3-25-55	T. 5	NU	House vacant. Yield 50 gpm. L.
Gravel	..	..	J. 1	D	Supply adequate.
Rock and gravel Rock, red	R-235	3- 1-55	..	Irr	Bailed 2 gpm, dd to 295 ft. L.
Gravel and sand	75.2	7-17-53	..	Irr	Pumped 4½ hr at 220 gpm, dd 2 ft. L. FT. Temp 51.
Numerous beds of sand and gravel	62.6	9- 9-52	T. 10	Irr	Pumped sand, so plugged at 144 ft; then pumped 8 hr at 250 gpm, dd 63 ft. L. H, FT. Temp 51.
Rock, red "sand rock"	R- 3	..	S. ½	D	Bailed 7 gph. Supply inadequate. L.
Gravel, cemented	R- 7	..	S. ¼	D	Low yield.
Clay, sandy, blue	..	..	S	D	Adequate supply.
Gravel, cemented	R-17	..	S. ¼	D, S	Well dry Sept.-Nov., 1952.
. . . .do. . . .	9.8	9-23-53	S. ½	D	Some brown stain from water.
. . . .do. . . .	..	..	S. ¼	D	Supply adequate.

Table 1.--Records of representative wells in Lewis County, Washington--Con.

Well no.	Owner or tenant	Topography Altitude (feet)	Type of well	Depth of well (feet)	Diameter of well (inches)	Depth of casing (feet)	Water-bearing Depth to top (feet)	Water-bearing Thickness (feet)	Zone(s) Character of material	Water level Below datum (feet)	Water level Date	Pump, type H. P.	Use	Remarks
	T. 12 N., R. 2 E.--Con.													
17G1	Ray Huntting	T. 665	Dr	150	6	140	80	60	Gravel	R- 70	..	P. ½	D	Supplies seven families. Drilled 180 ft; plugged at 150 ft. L.
17J1	R. W. Rigg	T. 680	Dr	278	8-6	278	266	12	Gravel, "clean"	R-266	1948	P. 2	D, S	L.
17L1	Walter Sears	T. 667	Dg-Dr	174	6	174	170	4	Gravel, loose	R-129	3-17-55	..	..	Tested 20 gpm. L.
17P1	H. B. Ranson	T. 645	Dg	54.1	36	6-8	..	..	Gravel	50.7	9-17-53	J. ½	D, S	Well usually dry in late fall.
17Q1	P. E. Severns	T. 605	Dr	193	6	187	..	..	Sand	R-168	Fall 1951	T. 3	D	Bailed 10 gpm, little dd. Drilled through blue clay above gravel and sand. FT.
17Q3	Don Adams	T. 583	Dr	174	6	174	..	..	Gravel, fine	..	..	P. 1	D	Brown stain from water.
18C1	W. B. Damron	T. 643	Dg	82.8	36	6	..	..	Gravel	76.9	9-17-53	J. ¾	D, S	Dug through cemented gravel and sandstone above aquifer. Brown stain from water. FT.
18G1	Harold Powell	T. 660	Dr	144	6	144	..	..	. . . .do. . . .	..	..	P. 1	D, S	Drilled through gravel, mostly. Yield 3-4 gpm.
18H1	Ray Cook	T. 642	Dg	23.8	42 by 42	5½	..	..	Clay and boulders	16.1	9-16-53	S. ¼	D	Report well can't be pumped dry with present pump.
18L1	C. J. Hitch	T. 733	Dg	66	..	10-12	..	..	Gravel and clay(?)	..	..	P. ½	D, S	
20F1	F. C. Marsh	T. 645	Dr	237	6	63	..	..	Rock, red	R- 49	1955	J. 1	D	Originally drilled 126 ft. L.
22N1	S. G. Bradshaw	T. 595	Dr	99	6	99	..	..	Gravel	..	..	J. ½	D, S	Supplies two families. Report can hear water roar in well. White(alkaline?) precipitate from water.
24A1	K. Adams	H. 840	Dr	197	6	18	17	1	Gravel and clay	R-10	Oct. 1952	S. ¼	D	Supply adequate, water soft. L.
35F1	Norman Howard	T. 600	Dr	95	6	95	95	2+	Gravel, fine, clean	R-16	..	S. ¾	D	Pumps some fine, blue silt. Bailed 33 gpm, dd 2-3 ft. L.
35G1	Marvin Howard	T. 590	Dr	56	6	56	56	2+	. . . .do. . . .	R-15	..	S. ½	D	Supplies 3 houses. Bailed 33 gpm, dd 2-3 ft. Well deepened from 36 ft as water had become very hard. L.
35G2	. . . . do	T. 607	Dr	36	6	36	36	2+	. . . .do. . . .	R-18	..	S. ¾	D	Supplies swimming pool. Bailed 33 gpm, dd 2-3 ft. L.

Table 1.--Records of representative wells in Lewis County, Washington--Con.

Well no.	Owner or tenant	Topography Altitude (feet)	Type of well	Depth of well (feet)	Diameter of well (inches)	Depth of casing (feet)	Water-bearing zone(s) Depth to top (feet)	Water-bearing zone(s) Thickness (feet)	Character of material	Water level Below datum (feet)	Water level Date	Pump, type H, P,	Use	Remarks
	T. 12 N., R. 2 E.--Con.													
35G3	Anthony Rhodes	T. 607	Dg	22-25	36	8	..	..	Sand and cobbles	R- 21	..	S, ¼	D	Limited yield. Brown stain from water.
	T. 12 N., R. 3 E.													
8C1	..	T. 737	Dr	585	..	..	107 292	.. 2	Sand . . . .do. . . .	..	..	N	De(?)	Test hole for Cowlitz River dam investigation. L.
15R1	A. A. Wood	T. 740	Dr	60	4	30	..	..	Sand, gray	..	..	S, 6	D	Well pumps dry. Water soft.
16G1	L. C. Moore	H. 890	Dr	96	6	..	..	..	Sand	..	..	J, 1½	D, S	Adequate supply. Water soft.
16J1	W. H. Bowen	H. 810	Dr	154	6	18	146	8	Sand, black	R- 28	7- -54	J, 1	D, S	Supplies two homes. Water hard; Leaves hard, white residue. L.
17B1	R. L. Nelson	T. 750	Dr	29.8	6	28	28	4	Sand (?)	14.8	8-25-54	S, ½	D	Can be pumped dry. FT.
17E1	--Bridges	T. 690	Dr	70	6	..	..	..	Rock	R- 8	Sept. 1952	J, ½	D	Overflows in winter. Water soft.
18M1	Clarence Davis	T. 670	Dr	123	6	123	..	..	Gravel, cemented	R- 20	Sept. 1949	J, 1	D	Water soft.
18P1	J. E. Swigart	T. 670	Dr	117	6	..	97	20	. . . .do. . . .	R- 97	Sept. 1946	J, 1	D	Water hard. Air rushed up casing when drilled. L.
20A1	Herb Mee	T. 697	Dg	12	30	12	..	..	Sand and gravel	R- 3	8-18-54	S, ½	D	Report always at least 7 ft water in well. Water hard.
20A2	K. A. Jarvis	H. 725	Dr	249	6	..	..	..	..	..	..	N	NU	Went dry after earthquake (1949). Water was soft.
21A1	W. H. Newton	H. 828	Dr	100	6	97	..	..	Shale and sand	35.7	8-24-54	J, 1½	D	Supplies three houses. Water soft. L.
21G1	C. Blankenship	T. 760	Dg	22	32	22	15	7	Gravel and clay	R- 15	..	S, ¼	D	Well goes dry in summer. Water soft.
21G2	. . . . do	H. 775	Dr	250	6	22	..	..	..	R-225	Aug. 1954	N	NU	Yield very low. L.
22B1	Riban Workman	H. 800	Dg	24.5	36	24	..	..	..	16.7	8-19-54	S ½	D, S	Water soft.
22D1	Harry Belcher	H. 780	Dr	190	6	60	172	18	Sand, black	R- 70	Aug. 1951	Sb, 1½	D, S	Water soft. L, FT.
22R1	Lowell Davis	H. 833	Dr	215	6	110	..	..	Rock, porous	R- 22	Sept. 1948	J, ¾	D, S	Supplies three houses. Water hard.
24C1	W. O. Jackson	T. 530	Dr	76	7	73	73	3	Gravel	R- 10	..	J, 1½	D, C	Supplies gas station and cabins. Supplied many people in summer of 1952. L, FT.
24N1	Paul Carter	T. 755	Dg	30	24	30	..	..	Clay, blue	R- 30	Aug. 1952	..	D	Dry in late summer; water soft.
25D1	L. F. Bartley	R. 850	Dg	8.0	40	10	..	..	Gravel	5.0	8-20-54	S	D, S	Water soft.
25H1	W. Hadaller	H. 1400	Dg	15.6	42	14½	..	..	Sandstone	11.3	8-20-54	S	D	Supply inadequate. Water soft.

Table 1.--Records of representative wells in Lewis County, Washington--Con.

Well no.	Owner or tenant	Topography Altitude (feet)	Type of well	Depth of well (feet)	Diameter of well (inches)	Depth of casing (feet)	Water-bearing: Depth to top (feet)	Water-bearing: Thickness (feet)	Zone(s) / Character of material	Water level: Below datum (feet)	Water level: Date	Pump, type H. P.	Use	Remarks
	T. 12 N., R. 3 E.--Con.													
25L1	C. W. Kaiser	H. 1450	Dg	14	48 by 48	10	10	4	Gravel, cemented hard, gray	5.5	7- 6-55	S. ¼	D. S	Went dry in 1952. Water level not effected immediately by precipitation.
26D1	Wallace Osborne	H. 800	Dr	246	6	37	..	..	Sand, blue-gray(?)	Flow	8-20-54	S. 1	D. S	Bottom 200 ft gray siltstone with interbeds of fine sand. Some gas in water. FT. Temp 50.
28L1	R. A. Perkins	H. 1200	Dr	52	6	52	..	..	Sand, gray	14.3	. .do. .	S. ⅓	D	FT. Temp 48.
	T. 12 N., R. 4 E.													
2C1	Ed Fissel	T. 956	Dr	53.25	4	53+	..	..	..	37.4	3-18-53	N	NU	Yield 5 gpm. Report "hot spring" at 32 ft(heated up bit). H. FT. Temp 52.
7A1	Ross Myers	H. 1300	Dg	20	48	0	..	..	Clay, gray	R-15	..	S	D	Supply usually adequate; water soft.
19D1	--Shoemaker	T. 555	Dr	92	6	92	..	..	..	R-42	Sept. 1943	J. 1	D	Supplies 5 houses; water soft.
29F1	Dewey Workman	T. 569	Dr	36	6	36	..	..	..	..	..	J. ½	D	Water soft, sometimes "rusty"
31G1	E. E. Moomau	V. 1601	Dg	26	48 by 48	..	..	..	..	..	..	S	D. S	Pumped dry in fall, 1952.
	T. 12 N., R. 5 E.													
7D1	C. W. Lane	V. 1000	Dg	18.5	60	20	..	..	Clay	14.7	8-27-54	S. ¼	D	Goes dry in August. Water soft.
7K1	O. D. Hall	V. 1000	Dr	100	6	100	..	..	Sand	R-10	Sept. 1949	J. 1	D	Drilled well (40 ft) on property yields more water. FT.
12Q1	R. A. Neely	V. 914	Dr	80	6	..	..	..	..	..	..	J. ½	D	Supplies 6 cabins. Water hard. Obtain water from spring also.
14H1	W. W. Sylva	V. 862	Dr	222	6	20	..	..	Gravel	1.0	3-18-53	S. ⅓	S	H. FT.
14K1	. . . .do. . . .	V. 843	Dg	18.6	..	..	8	11	Gravel and cobbles	8.1	. .do. .	S. ¼	D. S	Yield 7 gpm.
14N1	A. W. Hamilton	V. 827	Dr	24.0	6	22	..	..	..	6.0	4- 8-53	S. ⅓	D	Report "plenty of water". Temp 47. FT.
17D1	Carl Schmuck	V. 1000	Dg	26	30	26	23	3	Gravel and clay	R-20	8-15-54	S. ¼	D. S	Goes dry some years, water soft. Aquifer overlain by 20 ft of "shale and rock".

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Well no.	Owner or tenant	Topography Altitude (feet)	Type of well	Depth of well (feet)	Diameter of well (inches)	Depth of casing (feet)	Water-bearing Depth to top (feet)	Water-bearing Thickness (feet)	Water-bearing zone(s) Character of material	Water level Below datum (feet)	Water level Date	Pump, type H. P.	Use	Remarks
	T. 12 N., R. 5 E.--Con.													
22A1	John Hackney	V. 827	Dr	52	6	..	31	5	Gravel, fine	..	..	J. 2	D, Irr	L.
22K1	..	V. 800	Dr	38	6	38	..	..	Sand and gravel	R-20	Sept. 1946	S. ¾	D	Water soft.
28A1	Lawrence Goodwin	T. 775	Dr	31	6	..	30	1	....do.....	..	..	S. ½	..	Tested 8 gpm, dd 14 ft. Water soft "rusty". L.
28G1	K. W. Barrett	T. 767	Dr	39	8	39	35	4	....do.....	R-13	1943	J. 1½	D, C	Supplies 17 houses, store, restaurant. Yield 42 gpm. L, FT.
28M1	Joe Scalf	T. 755	Dr	48	6	48	..	..	..	..	..	J. ¼	D	Water level in 41.5 ft drilled well next door is 34.5 ft below land surface. 8-26-54.
32K1	--Hiett	V. 677	Dr	47	6	..	..	..	Sand and gravel	25.4	8-24-54	J. ¾	D	Tested 25 gpm ½ hr, dd ½ ft. Water soft.
	T. 12 N., R. 6 E.													
7K1	John Hornby	V. 978	Dr	22	6	22	..	..	..	..	..	S. ½	D	Water soft.
10M1	Frank Dunaway	V.1125	Dr	67½	6	45	..	..	Sand	R-30	Aug. 1952	N	NU	Well now filled with sand.
11P1	George Justice	V. 990	Dn	23	1½	23	..	..	Gravel	R-14	Apr. 1949	S. ¼	D, S	Water soft.
	T. 12 N., R. 7 E.													
10L1	Morton School Dist.(#214)	V. 925	Dr	57	8	47	40	17	Sand and gravel	..	..	T. 7½	..	Pumped 6 hr at 250 gpm; dd 6 ft. Water soft. Used for fire protection. L.
17G1	Pete Stevenson	V. 892	Dr	466	6	..	..	..	Sand, gray-blue	R-20	..	N	NU	Report gas in water; water harder with depth(171 to 975 ppm hardness) Sand from 20 ft to bottom. Bluer with depth.
17M1	--Cerley	V. 885	Dr	210	6	..	..	..	..	..	..	Sb. 1	D	FT.
	T. 12 N., R. 9 E.													
6K1	W. P. Kerr	V. 987	Dr	27	8	18	18	9	Gravel	R- 7	March 1950	T. 10	Irr	Pumped 9 hr at 230 gpm, dd ½ ft. Report never more than 12 ft to water. L.

Table 1.--Records of representative

Well no.	Owner or tenant	Topography Altitude (feet)	Type of well	Depth of well (feet)	Diameter of well (inches)	Depth of casing (feet)	Water-bearing Depth to top (feet)	Water-bearing Thickness (feet)
	T. 13 N., R. 1 W.							
1D1	Ed Pfirter	V. 393	Dg-J	124	21-3	60	124	..
2A1	L. F. Miller	V. 388	Dr	84.9	6	44	87	1
2B1	Leonard Deskins	V. 382	Dg	18	36	10	16	2
2G1	Andrew Johnsen	V. 375	Dg-Bd	51	36-3	10-15	50	1
2K1	A. A. Zandecki	V. 372	Dg	24	42	8	..	..
2K2	.... do	V. 372	Dg	16.1	48	8	..	..
2M1	..	V. 357	Dg	14.7	36	8+	..	..
2P1	G. F. Wixson	V. 367	Dg	24.8	48	24.8	..	..
4F1	Wesley Watt	U. 574	Dg	21.8	48	4	..	..
4N1	A. E. Norberg	U. 563	Dg	26	8	26	..	..
5C1	Eddie Bange	U. 570	Dg	18.5	42	0	..	..
5G1	E. F. Bena	U. 547	Dg	14.7	30	14.7	14	..
5H1	R. G. Frederick	U. 558	Bd	19.1	6	19.1	..	..
5H2	Carl Harmon	U. 558	Dr	107	6	100	103	5
5K1	..	U. 567	Bd	19.1	12	3	..	..
5N1	Paul Seines	U. 560	Dg	28	36	28	20	8
5P1	G. E. Rexroad	U. 522	Dg	32.0	48	35	..	..
6D1	Cecil Pattee	U. 524	Dg	49.1	..	0	..	..

wells in Lewis County, Washington--Con.

...ogs(s) Character of material	Water level Below datum (feet)	Water level Date	Pump, type H. P.	Use	Remarks
Cobbles	R +15 R 6	1945 4-15-53	N	NU	Water contained sediment and bits of "charcoal". L.
Sand, dark	56	. .do. .	J. ½	D. S	Originally drilled to 88 ft. Flowing until earthquake of 1949. Pumped 10 gpm, dd 40 ft. L. FT. Temp 49.
Gravel	38	4-14-53	S	D. S	Inadequate supply.
..	52	. .do. .	P. ¼	D	Dug 21 ft, bored 30 ft. Water occasionally rust-colored. L.FT.
Clay (?)	..	..	N	NU	Water turns yellow when boiled.
..	5.6	4-15-53	S. (H)	D. S	Adequate supply.
..	5.7	. .do. .	N	NU	Temp 46.
Gravel (?)	4.4	4-16-53	S. ¼	D	Water rust-colored.
..	5.7	4-17-53	S. ½	D	Report water level constant seasonally. FT.
..	..		S. ½	D. S	Went dry in summer of 1952.
..	2.8	4-17-53	S. ⅓	D	Report water tastes metallic.
"Hardpan"	2.5	. .do. .	S. ½	D	Adequate supply.
..	34	. .do. .	S. (H)	..	
Gravel, fine and sand	6.5	4-20-54	T. 3	D. Irr	Tested 35 gpm, dd 88 ft. L. FT.
..	4.3	4-17-53	N	NU	
Clay and gravel	9.9	. .do. .	S	D. S	Report always at least 6 ft of water in well.
..	11.6	4-21-53	S. ½	D	Adequate supply.
Gravel	38.8	4-22-53	J. ½	D	If water stands, turns red. FT

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	T. 13 N., R. 1 W.--Con.													
6G1	..	U. 520	Dg	24.1	42	..	..	..	..	22.4	4-22-53	S. (H)	..	
6M1	Floyd Pattee	U. 528	Dg	43	42	..	40	3	Gravel	R-40	..	S. (H)	S	Hard white clay underlies gravel. Rapid recovery. Water level fairly constant seasonally.
6F1	M. F. Clark	U. 533	Dg	31.7	30	31.7	..	..	..	13.9	4-22-53	S. ½	D. S	Water rusty occasionally.
6R1	E. F. Broadway	U. 525	Dg-Dr	53.0	78-6	..	..	..	..	6.8	4-21-53	N.	NU	Dug to 53 ft. drilled to 165 ft. Formerly supplied 3000 gpd. FT
6R2	. . . .do. . . .	U. 552	Bd	31.9	8	..	..	..	..	7.3	. .do. .	S. ¾	D	Report 9 ft water in well, fall of 1952.
7B1	P. W. Cristler	U. 530	Dg	40	30-48	40	..	..	..	17.5	4-22-53	P. ½	D. S	Report 8 ft water in well, fall of 1952.
7C1	James Knoll	U. 522	Dg	32.7	48	..	..	..	..	18.3	. .do. .	S	D	Adequate supply.
7E1	E. L. Rasmussen	U. 533	Dg	40	36	..	..	..	Gravel, fine	R- 7	..	S	D. S	. . . .Do. . . .
7F1	..	U. 525	Dg	25.9	24	..	..	..	..	21.2	11- 6-52	S. (H)	D	
7M1	B. A. Leeds	U. 520	Dg	35	48	35	..	..	..	..	..	J. ½	D. S	Adequate supply.
8E1	Otto Koepke	U. 560	Dg	33.9	48	5	..	..	Clay, red	R-32 27.3	late summer 4-17-53	S (H)(W)	D. S	Well being pumped while measured. Pumps dry during late summer.
8D1	Curtis Zard	U. 564	Dg	32.0	36	2	..	..	..	18.1	. .do. .	S. ½	D	Adequate supply.
8H1	Hiram Hatcher	U. 560	Dr	53	6	53	..	..	..	23.9	. .do. .	S. (H)	D	Report "rust" in water. FT
8J1	Alvin Moen	U. 567	Dr	30.9	6	30.9	..	..	..	13.8	4-16-53	S. (H)	NU	FT
9D1	Ed Wendell	U. 545	Dg	21.2	60	0	..	..	..	12.6	4-17-53	N	NU	Well in yellow-brown clay and weathered gravel. Temp 46.
9E1	S. A. Connally	U. 578	Dg	27.8	27-38	29	24	5	Gravel and clay	23.6	10-14-52	B. (H)	D	L. H. FT
9E2	Alvin Moen	U. 570	Dg	27-30	6-42	27-30	..	..	"Hardpan"	3.3	4-17-53	S. ½	D	Adequate supply.
9H1	Ernie Tauscher	H. 350	Dg	23.9	36	4	..	..	..	9.0	4-15-53	N	NU	
9M1	--Bonagofski	H. 440	Dg	17.3	40	0	..	..	..	1.4	4-16-53	S. (H)	NU	Well in marshy area. Clay, hard, gray, taken from well. FT

Table 1.--Records of representative

Well no.	Owner or tenant	Topography Altitude (feet)	Type of well	Depth of well (feet)	Diameter of well (inches)	Depth of casing (feet)	Water-bearing Depth to top (feet)	Water-bearing Thickness (feet)
	T. 13 N., R. 1 W.--Con.							
9N1	J. J. Hendershot	H. 345	Dg	45	..	..	37	8
10F1	Keith Jensen	V. 329	Dg	10	48	3	..	..
11B1	Kenneth Jones	H. 470	Dg	12.0	..	0	..	..
11C1	Tom Hawes	V. 398	Dg	25.6	30	12	12	..
11G2	. . . .do. . . .	V. 405	Dg	55.2	8	55.2	..	..
11F1	Ben Snyder	H. 412	Dr	186	6	0	..	..
11K1	Fred McIntire	U. 648	Dg	39	10-20	39	..	..
11Q1	. . . .do. . . .	U. 648	Dg	21.5	32	4.5	..	..
11R1	. . . .do. . . .	U. 673	Dg	18.6	60	0	..	..
12R1	Ernest Peterson	U. 690	Dg	32.2	36	8	..	..
16F1	James Tauscher	V. 313	Dr	500(?)	5½	200	..	..
17H1	Frank Hamilton	V. 301	Dg	15.4	72-48	..	12	1½
17H2	. . . .do. . . .	V. 305	Dr	150	..	..	140	10
17K1	Ted Teitzel	V. 298	Dr	1580	5	200	120 500-600	..
17M1	Ted Teitzel	V. 288	Dr	70	4	70	..	..

wells in Lewis County, Washington--Con.

Zone(s) Character of material	Water level Below datum (feet)	Water level Date	Pump, type H. P.	Use	Remarks
Sand, fine, black	..	..	N	NU	L. FT.
..	R. 2	..	N	NU	Report water has "strong" odor.
..	3.7	4-16-53	S. ½	D	Inadequate supply. Iron in water.
Clay and gravel	1.2	. .do. .	S. ½	D. S	Water "rusty". FT. Temp 48.
..	3.4	. .do. .	N	NU	
..	R. dry	. .do. .	N	NU	L.
..	14.1	. .do. .	J. ½	D. S	Iron in water. FT.
..	10.4	. .do. .	B. (H)	S	FT.
..	5.0	. .do. .	B. (H)	D	Went dry in fall, 1952.
Clay, red, gravel	6.9	3-14-55	S. ⅓	D	Report water rusts pipes badly.
..	Flows	4- 1-55	N	NU	Test hole for Cont. Oil Co. Report well originally 1500 ft deep, now blocked at 400 or 500 ft. Report water-bearing at 124 ft, 500 or 600 ft, and a lower level. Estimated initial flow 200 gpm. Measured flow 4/7/55 35 gpm. FT. Temp 57 before blocking. 56 after.
Gravel and sand	11.9	9-19-52	S. 5	Irr	Low yield. Slow recovery. Gravel, sand, carbonized wood for 13½ ft, blue clay to 40 ft. H.FT.
Sand	Flows	4- 7-55	N	NU	Yield 19 gpm. L. FT. Temp 52.
..	R+ 143	3-14-55	N	Irr	Test well for Cont. Oil Co. Flow 400 gpm 3-15-55. Fine sand and bits of wood in water. Irrigated with 140-170 gpm all summer 1955. Temp 58.
Sand, white	Flowed	July 1947	N	De	Test well for Oil Co. Flow not vigorous.

Table 1.--Records of representative wells in Lewis County, Washington--Cont.

Well no.	Owner or tenant	Topography Altitude (feet)	Type of well	Depth of well (feet)	Diameter of well (inches)	Depth of casing (feet)	Water-bearing Depth to top (feet)	Water-bearing Thickness (feet)	Character of material	Water level Below surface (feet)	Water level Date	Pump, type H.P.	Use	Remarks
	T. 13 N., R. 1 W.--Con.													
18D1	G. E. Burton	H. 320	Dg	19.4	48 by 48	4	12	8	Gravel, cemented	12.0	11-9-54	S. (H)	D	Cemented gravel and clay 0 to 20 ft. Augured thru 15 ft more of blue clay.
18H1	Ted Teitzel	U. 530	Dg	24.1	30	..	..	..	..	21.9 11.7	10-17-52 4-15-53	S. (H)	NU	FT.
18K1	Inez Teitzel	H. 310	Dr	545+	5½	80	435(?) 545(?)	.. ..	Sand, fine (?) Gravel, fine(?)	Flowed	2-10-55	N	De	Test well for Cont. Oil Co. Flowed 400+ gpm. L. Temp 57.
18R1	. . . .do. . . .	V. 280	Dr	541	5½	28	541(?)	..	Sand (?)	Flowed	1-16-55	N	De	Test well for Cont. Oil Co. Flowed 370 gpm. L. FT, Temp 57.
19D1	Harold Quick	T. 280	Dr	115	8	115	110	5	Sand, fine	R -30	11-12-52	J. ½	D	Pumps sand. L. FT.
19F1	E. A. Deggeller	T. 298	Dg	19	36	19	12	7	Gravel and cobbles	R - 8	. .	S	D	Adequate supply.
19F2	..	T. 298	Dr	1000+	5½	86	480	7	"Sandstone"	..	..	N	De	Test well for Cont. Oil Co. L.
19G1	Dr. Weldon Pascoe	V. 275	Dr	200	6	200	..	..	..	..	..	J	D. S	Occasionally supplies 2 houses. L.
19K1	J. W. Miller	T. 300	Dg	29	48-36	6	19	10	Gravel and sand	R -19	..	S	D. S	Supplies 2 houses.
19L1	Tony Resch	T. 293	Dg	31.4	48-36	4	..	..	..	10.4	4-23-53	S. ½	D. S	Gravel, cobbles, boulders 4-11 ft.
19L2	E. A. Deggeller	V. 285	Dr	17.7	8	0	..	..	..	2.5	. .do. .	N	NU	Well 10 ft from intermittent stream.
19M1	Don Weigant	T. 309	Dg	23.3	36	..	..	..	..	18.0	10-21-52	S. ½	D. S	Adequate supply.
19Q1	Dr. L. G. Steck	T. 307	Dr	751	12	751	738	13	Sand and gravel	R-34	9-18-51	T. 50	Irr	Tested 250 gpm. dd 206 ft. A.L.
19R1	F. J. Vetter	T. 315	Dg	29	24	29	..	..	Gravel, cemented	22.9	4-23-53	S. ½	D	Pumps dry.
20C1	Ted Teitzel	V. 280	Dr	75	4	75	70	5	Sand, white	Flowed	July 1947	N	De	Test well for Oil company. Report yield 400-500 gpm. L.
20D1	A. B. Isberg	T. 310	Dg	29½	54	27.5	19	10	Sand	R-22 17.6	Summer 1952 4-22-53	S. ½	D. S	Report mostly sand 0-29 ft. "solid rock" beneath sand.
20E1	. . . .do. . . .	T. 320	Dr	2000	6	200	500(?)	50(?)	Gravel, fine(?)	+94(±4)	4- 7-55	N	NU	Test well for Cont. Oil Co. Flowing 450 gpm 4-7-55. Temp 54.
20F1	L. J. Carty	T. 325	Dg	35.1	..	9	39	1	Gravel, cemented	32.2	4-23-53	J. ½	D	FT.

Table 1.--Records of representative wells in Lewis County, Washington--Con.

Well no.	Owner or tenant	Topography Altitude (feet)	Type of well	Depth of well (feet)	Diameter of well (inches)	Depth of casing (feet)	Water-bearing Depth to top (feet)	Water-bearing Thickness (feet)	Zone(s) Character of material	Water level Below datum (feet)	Water level Date	Pump, type H. P.	Use	Remarks
	T. 13 N., R. 1 W.--Con.													
20L1	Eugene Mooberry	T. 336	Dg	60	48-60	18	60	..	Sand	R-40	..	J	D. S	Bell-shaped at bottom. Agate cobble at 60 ft. Two pumps.
20F1	Keene Teitzel	T. 354	Dg	39.9	48-24	39.9	38	2	..	38.0	4-22-53	N	NU	Lower 17 ft cased with 24-in. tile. Upper 23 ft gravel, cobbles, boulders, uncased.
20Q1	Keene Teitzel	T. 357	Dg	45.8	36	..	..	..	..	35.4	. .do. .	P	NU	
20R1	Pearl Archer	H. 400	Dg	19	48	0	..	..	..	4.6	4-23-53	S, ¼	D	Iron in water. FT
21N1	L. B. Allan	H. 378	Dg	25	65-36	20	22	2	Sand	3.1	4-24-53	S, ½	D	Pumped 8 hr steadily, Aug. 1952. Upper 22 ft yellow clay, fine gravel, and layers of blue "muck", dipping northwest. FT.
21F1	Frank Hedgers	U. 522	Dg	41.2	36	8	..	..	Clay and gravel	35.6	4-23-53	J	D. S	Water hard.
21Q1	Conrad Vetter	U. 536	Dg	51.2	24	51.2	48	2	Sand (?)	43.0	4-24-53	J, ½	D	Pumped dry in September 1952.
22E1	H. W. Allen	H. 390	Dg	29.3	..	6	..	..	Cobbles, cemented	14.4	. .do. .	S, 1	D	Pumps dry. FT.
22N1	D. F. Allan	U. 548	Dg	65	48	6	..	..	..	..	..	J, 1	D. S	Supplies two houses.
22F1	Corwin Sabin	U. 562	Dr	127	6	127	125	2	Gravel	R-65	Spring 1948	J, 1	D. S	Report minor aquifer at 50 ft. "cemented" sand 50-125 ft. FT.
23F1	Herb Snodgrass	U. 518	Dg	23.5	42	5	..	..	..	11.0	4-24-53	S	D	Iron in water.
23Q1	W. L. Rush	U. 560	Dg	18.3	48	2	..	..	..	14.2	. .do. .	B, (H)	D	Cobbles at 10-ft level. FT.
24Q1	George Keenan	U. 613	Dr	84	6	84	83	1	..	R-14	..	J, ½	D	Report "hard formation" above aquifer-very rapid recovery.
25A1	Lester Smothers	U. 632	Dg	36.5	42	4	..	..	..	16.4	4-28-53	J, ½	D	Adequate supply.
25B1	I. E. Weiher	U. 613	Dr	101	6	100	100	1	..	R-29 R-51	1948 Sept. 1952	J, ½	D. S	Report mostly clay 0-99 ft. "hard formation" 99-100 ft.
25D1	E. S. Norman	U. 584	Dg	25	12-36	25	..	..	Siltstone(?), gray	5.5	4-24-53	S, ½	D	Rapid recovery. "Rust" in water.
26B1	J. L. Sabin	U. 580	Dg	40	48	5	..	..	..	26.7	. .do. .	J	D	Pumps dry in summer.
26D1	W. L. Hedgers	U. 557	Dg	29.3	42-66	4	..	..	..	26.3	. .do. .	J, ½	D. S	Pumped dry in fall 1952.
27A1	T. Nuernberger	U. 591	Dr	120	6	120	..	..	..	..	..	J, 1½	D	Was used for irrigation also.

Table 1.--Records of representative

Well no.	Owner or tenant	Topography Altitude (feet)	Type of well	Depth of well (feet)	Diameter of well (inches)	Depth of casing (feet)	Water-bearing Depth to top (feet)	Water-bearing Thickness (feet)
	T. 13 N., R. 1 W.--Con.							
27N1	..	V. 364	Dg	8.1	54	0	..	..
27P1	O. J. Ricker	V. 373	Dg	24	30	24	..	..
28A1	T. Nuernberger	U. 542	Dg	47	42	8	..	..
28D1	A. E. Mason	H. 498	Dg	54	36-84	10	50	4
28F1	R. L. Wade	T. 360	Dr	135	6	135	132	3
29A1	Harry Wulz	H. 438	Dr	515	13	515+	..	..
29D1	Floyd Heron	V. 306	Dg	17.0	36	17	..	..
29D2	Niels Paulsen	V. 300	Dg	14	48	14	..	..
29E1	J. W. Cooke	T. 324	Dg	30	60	6-8	..	..
29M1	Charles Russell	T. 328	Dg	20	36	20	..	..
29M2	L. J. Nist	T. 328	Dg	25.9	36	5	..	..
29N1	John Wiedenhoft	T. 332	Dg	42	30	42	..	..
29Q1	Ed Wulz	V. 325	Dr or J	538	..	90	533	5
29R1	J. E. Deniston	T. 347	Dr	250	..	233	215 240	25 5
30A1	O. F. Schulz	T. 320	Dg	27.5	60	8	..	..

wells in Lewis County, Washington--Con.

Character of material	Water level: Below land surface (feet)	Water level: Date	Pump, type H. P.	Use	Remarks
..	2.5	4-28-53	N	NU	
Gravel, cemented	2.0	.. do. .	S	D	Iron in water. Report rusted out new pipes in 2 years.
Gravel and cobbles	36.8	4-24-53	J. ½	D. S. Irr	Report 41 ft down to water. November 1952.
"Hardpan"	R-46	.. ..	J. ½	D	Pumped dry for first time summer of 1952.
Sand, dark	+38.1	4-17-55	N	D. S. Irr	L. H. A. FT. Temp 52.
..	+20 +10.3	4-29-55 4-23-55	N	NU	Test hole for Wash. Oil Co. Drilled 6500 ft. Plugged at 515(?) ft. Water below 515 ft salty. L. H. FT. Temp 55.
..	13.7	.. do. .	S	D. S	Inadequate supply, summer and fall.
Gravel and cobbles	R- 7	..	S. ½	D. S	Water hard. Report water level constant.
..	14.0	5- 1-53	S. ½	D	Adequate supply.
Gravel	R-14	July 1952	S	D	Yield limited. Water hard.
..	11.1	5- 1-53	S. ½	D	Yield limited. FT. Temp 49.
..	4.8	.. do. .	S. ½	D. C	Supplies gas station, store. Iron in water.
Sand	R-20	1928	P. ¾	NU	Flowed slightly initially. High yield but pumped sand. Well capped. L.
"Sandrock", blue Sand and pumice	+66.5	8-27-53	N	Irr	Report flows 300 gpm. Flowed 60 gpm 4+ hr, dd 8 ft. Some pumice in water. L. FT. Temp 51.
Gravel	11.9	5- 1-53	S	D	Adequate supply.

Table 1.—Records of representative

Well no.	Owner or tenant	Topography Altitude (feet)	Type of well	Depth of well (feet)	Diameter of well (inches)	Depth of casing (feet)	Water-bearing Depth to top (feet)	Water-bearing Thickness (feet)
	T. 13 N., R. 1 W.—Con.							
30A2	Don Roberts	T. 315	Dg	30	72	6	..	..
30A3	F. B. Smith	T. 317	Dr	320	6	308	308	5
30B1	C. H. Fresch	T. 317	Dg	30	42	7	..	..
30G1	Fred Tietzel	T. 322	Dg	30	48	6	28	2
30K1	R. P. Neer	T. 326	Dg	25	30-36	25	..	..
30Q1	Clarence Roberts	T. 330	Dg	17.2	30	17.2	..	..
31D1	T. D. McDonald	H. 460	Dg	55.2	48	7	..	..
31K1	E. C. Sommers	U. 484	Dg	33.2	40	7	..	..
31M1	Ray Hall	U. 479	Dg	35.8	72-60	3	..	..
31N1	A. C. Smith	U. 500	Dr	98	6	..	98	..
31N2	. . . .do. . . .	U. 500	Dg	35.1	48 by 48	9	..	..
31P1	Clyde Moore	U. 507	Dr	185	6-4	185	..	..
31P2	W. D. Bishop	U. 507	Dr	147	6	147	..	..
31P3	Clyde Moore	U. 507	Dg	49.6	42-84	4	20	30
31P4	. . . .do. . . .	U. 502	Dr	146	8	146	95	18

wells in Lewis County, Washington—Con.

Zone(s) Character of material	Water Level Below datum (feet)	Water Level Date	Pump, type H. P.	Use	Remarks
..	R-25	October 1952	S. ½	D	"Rust" in water.
Sand, gray	R-100	6-25-54	Sb. 2	D, Irr	Bailed 17 gpm, dd 75 ft. L, FT.
..	R-24 18.6	Late summer; 4-23-53	S	D, S	"Rust" in water. Well in gravel, cobbles, and boulders.
Gravel	R-15	..	S. ½	D, S	Well in "hardpan" 2-28 ft. Water blackens steel pipes, corrodes copper and brass fittings.
..	6.1	5- 1-53	S. ½	D	Well pumped just before measurement.
..	8.0	4- 1-53	S. ½	D	Temp 49.
..	41.1	1- 7-53	J. ½	D	Temp 48.
Clay and gravel	1.1	1- 8-53	S	D	FT, Temp 46.
. . . .do. . . .	18.7	1- 7-53	S. ½	D, S	Report 5 ft water in well previous week. Adequate supply.
Gravel, fine	R-29	..	J. ½	D, S	Report mainly yellow clay and some gravel 0-98 ft. Bailed 33 gpm.
..	15.4	Summer 1954	N	NU	Low yield. Much iron in water. FT.
..	R-20	Sept. 1943	J. 1½	D, Irr	Casing perforated 4-in. from 165 to 185 ft. Pumped 4 hr at 350 gpm, dd 24 ft. Report 145 ft sand, gravel, clay overlie 20 ft blue "mud".
Gravel	36.8	1- 7-53	J. ½	D	Adequate supply.
Gravel and clay, yellow	11.5	6- 3-54	B. (H)	S	Well bell-shaped, yield 5 gpm. Much iron in water, yellow brown, encrusts pipes. FT, Temp 52.
Gravel and sand	R-27	5-30-53	T. 10	Irr	Pumped 4 hr at 140 gpm, dd 80 ft. L.

Table 1.--Records of representative

Well no.	Owner or tenant	Topography Altitude (feet)	Type of well	Depth of well (feet)	Diameter of well (inches)	Depth of casing (feet)	Water-bearing Depth to top (feet)	Water-bearing Thickness (feet)
	T. 13 N., R. 1 W.--Con.							
31Q1	Earl Cabe	U. 510	Dr	98	6	98	75	23
31R1	G. A. Peters	U. 508	Dg	30.9	72-48	6	..	..
32A1	Lucian Hamilton	V. 335	Dr	205	6	180(?)	180	10
32A2	I. S. Norman	V. 338	Dr	42.5	6	..	..	..
32B1	..	H. 335	Dg	26.1	6	..	..	..
32C1	William Coughlin	T. 332	Dr	38	6	38	..	..
32F1	C. H. Wolfe	H. 365	Dg	35.6	48	40	..	..
32F2	G. E. Stewart	H. 380	Dg	23.7	30	23.7	..	..
32H1	Carl Freund	H. 345	Dg	20.7	..	20.7	..	..
32L1	O. L. Hovies	H. 445	Dg	36.3	42	36	..	..
32N1	James Cottet	U. 520	Dr	122	6	122	..	..
32P1	C. J. Thayer	U. 523	Dg	35	30	10	..	..
32P2	Edward Roberts	U. 522	Dg	40.4	45	..	..	..
32Q1	J. J. Rudolf	U. 525	Dg	55	48	16	..	..
33B1	F. O. Nederlander	U. 353	Dg	13.8	36	13.8	..	..
33C1	R. R. Acheson	V	Dg	14	36	..	..	..
33D1	Jim Hamilton	V. 345	Dr	70	6	..	65	5

wells in Lewis County, Washington--Con.

Character of material	Water level: Below land surface (feet)	Water level: Date	Pump, type	H. P.	Use	Remarks
Sand and gravel	R-26	October 1951	J.	2	D. S	Report little dd during bailing test.
Clay and gravel	0.7	1- 9-53	S.	½	D	Gravel is soft. Temp 48
Sand, fine	22.5	7- 8-55	T.	2	S	Pumps fine blue-gray sand. L.FT.
..	7.5	5- 1-53	J.	½	S	
..	7.1	.. do. ..	S.	½	..	
..	..	..	J.	¾	D. C	Supplies hamburger stand. Iron in water (red when heated). Water is filtered.
..	20.2	1-14-53	S.	½	D. S	Limited yield. Rapid recovery.
..	7.5	.. do. ..	S		D	Goes dry occasionally in fall. FT.
..	6.7	8-30-53	S.	½	D. S	Adequate supply.
..	17.4	1-14-53	S.	½	D. S	Temp 48.
Gravel	R-30	Fall 1947	J.	1	D	Bailed 20 gpm. dd 50 ft. Rapid recovery. Supplies 3 homes. Report minor aquifer at 30 ft. FT.
..	2.1	1- 9-53	S.	¼	D. S	Supplies 2 homes; inadequate in fall.
..	24.0	1-14-53	J		D	Supply inadequate in fall. FT.
Gravel	..	..	J.	½	C. D. Irr	Supplies house, gas station, 5 cabins. Pumped dry once in fall 1952.
.. .. do.	5.5	4-28-53	J		D	Well dug in sand and gravel.
..	R- 7	Summer 1947		2	..	Pumped 4 hr at 50 gpm. dd 5 ft.
Gravel, fine	+25	4- 8-53	C.	2	D. S	Well drilled in a spring in marshy area. Land settled several ft since drilling. Well supplies swimming pool. Report flowed 50 gpm spring 1948; 25 gpm Apr. 1952. L. FT. Temp 51

Table 1.--Records of representative wells in Lewis County, Washington--Con.

Well no.	Owner or tenant	Topography Altitude (feet)	Type of well	Depth of well (feet)	Diameter of well (inches)	Depth of casing (feet)	Water-bearing: Depth to top (feet)	Water-bearing: Thickness (feet)	Character of material	Water level: Below datum (feet)	Water level: Date	Pump, type H. P.	Use	Remarks
	T. 13 N., R. 1 W.--Con.													
33M1	H. E. Urich	H. 427	Dg	65	40	65	..	..	..	15.6	4-30-53	F, ½	D	Flowed 1/1/51. Report air in water. FT.
33R1	Bessie Jennings	U. 550	Dg	73	48	..	..	..	..	..	..	J	D	Adequate supply.
34D1	Rollo Glaspey	V. 363	Dr	20.9	6	23	..	..	..	8.2	4-29-53	S, ½	D	Digger encountered cedar log. Yellow film on water. FT.
34D2	John Stover	V. 373	Dg	21	8	21	6	15	Gravel and cobbles	R-15	Summer 1952	..	D, S	Encountered "hardpan" at 6 ft. Iron in water.
34D3	.....do.....	V. 373	Dg	31	6	31	..	..	Clay, blue (?)	4.8	4-29-53	N	NU	
34G1	Jesse Gish, Sr.	T. 460	Dg	30	72	30	..	..	Gravel	R-18	..	S	D	Well has gone dry summers since earthquake (1949).
34J1	..	T. 449	Dg	25.0	46-36	4	..	..	..	5.2	4-29-53	S, ½	D	
34J2	..	T. 438	Dg	14.9	30	14.9	..	..	..	1.0	4-30-53	S	D	
34L1	H. B. Lennartz	T. 418	Dr	47	6	47	..	..	"Rock"	R- 8	1948	S, (H)	D	Oily film on water.
34N1	R. Sill	U. 549	Dg	54.0	36	6.5	..	..	..	21.3	1- 27-53	J, ⅓	D	Water level low in summer. Water entering well at bottom of casing 1/27/53. FT
35A1	L. S. Godsey	V. 418	Dr	185	6	178	177½	7½	Sand and pumice	+25±	7- 7-55	N	D	Iron in water. L, FT, Temp 51.
35B1	Carden Qualls	V. 406	Dr	183	6	180(?)	180	3	Sand (?)	R+11½	1950	J, 2	D	Bailed 30 gpm, dd 70+ ft. Report flows 2½ gpm. L, FT.
35H1	C. E. Arnold	V. 388	Dg	18	18	18	..	..	Gravel	6.7	4-28-53	S	D	Report 5-6 ft water in well Sept. 1952.
35K1	Frank Young	T. 460	Dg	20	42	20	..	..	..	1.9	4-30-53	S	D	Adequate supply.
35K2	.....do.....	T. 468	Dr	41.5	8	..	..	..	..	22.2	.....do.....	S	NU	Test hole.
35M1	Paige Twiss	H. 450	Dr	87½	6	87½	80	7½	Gravel	5.0	.....do.....	S, (H)	D	Report iron and lime in water. L.
35M2	.....do.....	T. 443	Dr	78	6	78	75	3	.....do.....	3.0	.....do.....	S, (H)	NU	Report iron and lime in water. L, FT.
35R1	K. H. Jackson	H. 520	Dg	12.6	66	12.6	..	..	..	4.5	4-30-53	G	D, S	Well "spring-fed". Supply inadequate. Water leaves white ring in kettle when boiled. FT.

Table 1.--Records of representative wells in Lewis County, Washington--Con.

Well no.	Owner or tenant	Topography Altitude (feet)	Type of well	Depth of well (feet)	Diameter of well (inches)	Depth of casing (feet)	Water-bearing zone(s) Depth to top (feet)	Water-bearing zone(s) Thickness (feet)	Character of material	Water level Below datum (feet)	Water level Date	Pump, type H. P.	Use	Remarks
	T. 13 N., R. 1 W.--Con.													
36C1	Ernest Hamilton	V. 430	Dr	65	6	57	58±	2±	Sand, fine	R- 5	..	J. 2	D, S	Bailed 30+ gpm, dd 25 ft. Report water has odd taste and leaves iron stain in winter. FT.
36C2	S. E. Palmateer	V. 433	Dg	12.7	14	12.7	..	..	..	4.2	4-29-53	S. ½	D	Owner reports bad taste and color in water.
36D1	Roy Schroeder	V. 416	Dg	12	36	12	..	..	Gravel	R- 3	..	S	D	Rapid recovery. Report water "stagnent" in summer.
36L1	M. J. Harmanson	V. 435	Dg	13.6	36	13.6	..	..	..	3.8	4-30-53	S. ¼	D	Water "rusty".
36Q1	D. I. Hubbard	V. 443	Dg	12	48	6	..	..	"Boulders"	R- 5	..	S	D, S	Supplies two homes.
	T. 13 N., R. 2 W.													
2B1	Leon D. Ames	H. 380	Dg	23	36	..	..	..	..	21.3	11- 6-52	N	NU	Iron in water.
2J1	J. H. Robinson	V. 327	Dg	17.2	48	4.3	..	..	..	16.4	. .do. .	S	D	FT.
2J2	J. P. Balson	V. 320	Dr	210	6	175	210	..	..	R- 5	..	J	D, S, Irr	Yields 10 gpm. L.
2P1	Clyde E. Jones	V. 270	Dg	16.0	16	16	..	..	..	3.0	11- 7-52	N	NU	
3A1	R. W. Kennicott	U. 525	Dr	150	6	150	150	5	Gravel, fine	R-75	1945	F. ½	D	Quartz, quartzite, chert, cobbles and pebbles on land surface. Well drilled 230 ft deep. L.
3A2	. . . .do. . . .	U. 530	Dg	59.9	48	60	..	..	..	45.4	11- 7-52	S. (H)	NU	
3G1	-- Childers	U. 527	Dr	150	6	150	..	..	Sand and gravel	R 120	July 1952	J	D	Casing perforated. Pumped 15 gpm. FT.
3G2	Northwest Lumber Co.	U. 527	Dr	157	6	..	120	32	. . . .do. . . .	111.9	7-27-55	J. 2	D	Tested 10 gpm, dd 26 ft. L.
3H1	Joe Burtanak	U. 520	Dg	64.4	48	64.5(?)	..	..	..	51.7	11- 7-52	J. ½	D, S	Well was dug in a yellowish red clay and gravel. FT.
3K1	Bruce Baxter	H. 460	Dg	8.9	36	9	..	..	..	3.2	. .do. .	S. ⅓	D	Owner reports well recovers 1 inch per hour, after being pumped dry.
3K2	V. J. Zerwekh	H. 490	Dg	20	30	..	19	1	Gravel and clay	R- 19	..	S	D	Inadequate supply. Report water level constant seasonally within ½ ft.

Table 1.--Records of representative wells in Lewis County, Washington--Con.

Well no.	Owner or tenant	Topography Altitude (feet)	Type of well	Depth of well (feet)	Diameter of well (inches)	Depth of casing (feet)	Water-bearing Depth to top (feet)	Water-bearing Thickness (feet)	Character of material	Water Level Height above (+) or below (-) land surface (feet)	Water Level Date	Pump, type H. P.	Use	Remarks
	T. 13 N., R. 2 W.--Con.													
4L1	William A. Hanson	T. 205	Dg	27.5	72	27.5	..	..	Gravel	23.0	10-14-52	S, ½	D, S	Adequate supply. H.
4P1	City of Chehalis	V. 189	Dr	262	4	40-50	115	34	Gravel, fine	..	..	N	NU	Test well. L.
5B1	.... do	V. 175	Dr	110.5	4	40-50	98	3	Silt	Flows	9-12-52	N	NU	Test well; capped. L.
5H1	.... do	V. 183	Dr	280	18	23	23	16	Gravel					Test well. Pumped 125-150 gpm, dd 158 ft. Estimated flow 8-10 gpm. 9/12/52. Well capped. L. A.
					12	295	95	13	Sand and gravel	Flows	5-14-53	N	NU	
					8	322	290	24	Sand and gravel					
5R2	.... do	V. 182	Dr	408	4	40-50	100	16	Gravel and sand	..	..	N	NU	Test well. Pumped 45 gpm, dd 30 ft. Casing in place; well capped. L.
							282	19	.... do.					
5J1	.... do	V. 185	Dr	409	4	40-50	111	8	Sand, coarse	..	..	N	NU	Test well. L.
							231	20	Sand, coarse					
5K1	E. Pope	V. 182	Dg	23.5	48	24	..	..	..	14.6	10-17-52	S	D, S	Owner reports water has mineral taste. Temp 52.
5M1	Antonio Vaserani	V. 193	Dg	18.9	30	..	17	2	Gravel and sand	12.0	10-28-52	S, ¾	D	Adequate supply.
6R1	Burke Roberts	H. 245	Dg	7.3	56(?)	..	..	..	..	4.6	.. do. .	S	D	Well dug in marshy site.
6R2	Ray S. Thomas	H. 210	Dg	22	48	18	..	..	Clay and gravel	R-18	July 1952	S	D	Inadequate supply. Gravel soft.
7G1	A. I. Morstad	U. 385	Dg	62	48	62	58	4	Gravel	R-54	.. do. .	J	D	Adequate supply.
7E1	Ray Sabin	U. 375	Dr	100	6	100	..	..	Sand	R-70	Sept. 1951	J, 1	D	Adequate supply. FT.
7F1	John Sauter	U. 380	Dg	81.6	40-48	6.8	..	..	..	73.6	10-29-52	J, ¾	D	.... Do. ....
7G1	Harry Guthrie	U. 380	Dr	120	4	120	..	..	..	..	..	J	D	Adequate supply.
7H1	William Snelson	U. 383	Dg	42.3	..	42	..	..	..	34.7	10-28-52	J, ½	D	Adequate supply. Temp 51.
7H2	Ernest Campbell	U. 377	Dg	40.0	48	6	..	..	..	27.6	10-29-52	J, ½	D	Adequate supply.
7H3	John F. Thomas	U. 380	Dg	38	48	6	32	6	Cobbles and clay	31.9	.. do. .	J	D, S	Sandy clay and weathered gravel 4-32 ft. L. Temp 51.
7H4	.... do	U. 365	Dg	18.6	48	..	18	5	Gravel, fine	13.1	.. do. .	N	NU	Dug through 22 ft of sandy clay and weathered gravel, overlying hard pea gravel.

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Well no.	Owner or tenant	Topography Altitude (feet)	Type of well	Depth of well (feet)	Diameter of well (inches)	Depth of casing (feet)	Water-bearing Depth to top (feet)	Water-bearing Thickness (feet)	Zone(s) Character of material	Water level Below datum (feet)	Water level Date	Pump. type H. P.	Use	Remarks
	T. 13 N., R. 2 W.--Con.													
7J2	..	U. 387	Dg	37.3	30	37	..	..	..	29.3	10-28-52	N	NU	FT. Temp 48.
7J3	J. H. Jones	U. 393	Dg	52.5	42-75	17	37	16	..	34.5	10-29-52	J. ½	D. S	Pumped 4 hr at 25 gpm; dd 1 ft. L. Temp 51.
7P1	E. F. Seeger	U. 375	Dg	100	48	8	..	..	Sand	R-95	..	P	D. S	Adequate supply.
7Q1	Earl Andersen	U. 365	Dr	121	6	96	..	..	Sand and gravel	R-78	Dec. 1941	J	D. S	Waters 4 cows.
8A1	H. E. Wiley	V. 189	Dr	56	6	56	50(?)	6	Sand	..	..	J. 1	D	Water occasionally cloudy. FT.
8B1	B. C. Moses	V. 187	Dg	14.6	40	6	..	..	..	11.7	10-17-52	..	D. S	Use water also to cool milk.
8C1	R. A. Meyers	V. 185	Dg	16	36	16	14	2	Gravel	R-12	..	S	D. S	Adequate supply. FT.
8E1	Charles Rowett	H. 310	Dg	25.4	30	26	16	2	Gravel, fine	16.1	10-28-52	S	D	Report 11-ft recovery overnight. FT.
8E2	--Bradshaw	H. 355	Dr	97	8	97	87	10	Sand, coarse	R-80	1946	J. ½	D	Adequate supply. L.
8E3	John E. Sparks	H. 360	Dg	41.1	36	..	..	..	..	34.6	10-28-52	J	D	Iron in water. Temp 51.
8J1	R. Whitehouse	V. 190	Dg	11	24	11	..	..	..	9	10-17-52	S	D	Temp 56.
8L1	Art Dahl	H. 260	Dr	144.9	4	88	100	50	Gravel, fine	67.2	9-12-52	J. ½	D	Pumped 10 gpm, dd 28 ft. L. FT.
8L2	. . . .do. . . .	H. 260	Bd	32.1	4	37.5	30½	7	Sand	2.4	. .do. .	S. ½	D	Center to center distance between L1 and L2 is 2 ft. FT.
8M1	Nels Hanson	U. 380	Dg	32.4	48	6	30	2	Sand and gravel	26.9	10-28-52	J. ½	D	Supplies 1000 chickens.
8N1	N. W. Brunswig	U. 390	Dr	120	6	120	..	..	Gravel and cobbles	R-106	1946	P	..	Drilled through 50 ft of blue clay between 40 and 110 ft. FT.
8Q1	L. J. Loyd	H. 229	Dr	40	6	40	..	..	Sand	..	..	..	D	Report water has "iron taste".
8Q2	Rudy Graves	H. 229	Dr	40.7	6	43	..	..	Sand, coarse	35.7	12-30-52	J. ½	D. S	Into blue clay at 43 ft. Report water level constant. Water hard, has "iron taste".
9B1	--Balmelli	T. 215	Dr	37.0	6	37	..	..	..	19.5	10-14-52	J. ½	D	FT
9E1	W. J. Schwartz	V. 193	Dg	17.9	36	..	12	13	Gravel	7.0	10-17-52	S. 5	Irr	Dd 15 ft at 125 gpm. L.
9E2	. . . .do. . . .	V. 197	Dg	14	21	14	..	..	Clay, gravelly	6.6	. .do. .	S	D	Adequate supply.

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	T. 13 N., R. 2 W.--Con.													
9M1	Joseph Stajduhar	V. 200	Dg	20.2	42-36	5.3	..	..	..	16.5	10-15-52	S	D	Adequate supply.
9M1	R. E. Reffler	T. 200	Dr	38	6	38	..	..	..	..	..	J. ½	D. S	FT.
9N1	Lee Aust	T. 203	Dr	42.5	6	..	..	..	..	10.7	10-28-52	J. ½	D	Report water has "iron taste".
9P1	Harry Hail	V. 200	Dr	36.5	6	34½	34½	2	Sand and gravel	R-20	July 1952	J. ½	D. S	Adequate supply. L.
9Q1	R. Richmond	V. 205	Dr	37.0	6	37	..	..	Gravel	8.3	10-14-52	J. ½	S	Some water at 12 ft level, in sand. FT.
10K1	Ed Maurin	T. 230	Dr	127	4	42	110	1	Sand	8.5	10-15-52	N	NU	Well originally drilled 355 ft deep and flowed and has since sanded in to 127 ft. L.
10L2	. . . . do	T. 230	Dg	27.4	48	18	15	⅛	"Rocks" and clay	11.9	. .do. .	S	D. S	Well dug entirely in "rocks" and clay.
10N1	S. A. Banks	T. 235	Dg	23.1	6	23	..	..	..	20.1	. .do. .	S. ½	D.Ind	Inadequate supply. Used for service station. FT.
10P1	A. W. Green	T. 235	Dg	24	42	10	..	..	Gravel	R-19	..	S. ⅓	D. S	Inadequate supply. Report 24 hr to recover 5 ft.
10P2	S. Parypa	T. 238	Dg	16.5	36	16.5	..	..	. . . .do. . . .	13.1	10-15-52	S. ¼	D	Adequate supply.
10Q1	Robert Butts	T. 242	Dr	55	6	55	30	25(?)	. . . .do. . . .	R-20	1947	J	D. S	Encountered blue clay at 55 ft. FT.
10Q2	. . . . do	T. 242	Dr	165	6	165	160	5	Sand	R-30	1946	N	NU	Water still "milky" after 4 to 5 months pumping. L.
11F1	Richard Hearn	H. 315	Dg	15.8	36	10	..	..	..	15.5	11- 6-52	S. ¼	D	Well being dug in spring site. Report water has "iron" taste.
12F2	Joe Norris	T. 360	Dg	31.8	30	..	..	..	..	14.0	. .do. .	S	D	FT.
12F3	C. R. Emison	T. 370	Dr	180	6	180	180	..	Sand	32	4-17-53	J. 1½	D	Originally 219 ft deep. FT. L.
12H1	Thorval Tunheim	H. 480	Dg	31.4	30	..	..	..	..	25.3	11- 6-52	J. ½	D. S	Limited, but adequate supply.
12Q1	William H. Buck	U. 518	Dg	49.3	36	50	..	..	..	41.9	. .do. .	J. ½	D	Low yield, but adequate for domestic uses. FT.
12R1	J. A. McReynolds	U. 520	Dg	42.8	30	42	..	..	Gravel, fine	34.2	. .do. .	J. ½	D. S	Clay admixed in gravel. Supply adequate for domestic use.

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	T. 13 N., R. 2 W.--Con.													
13C1	Ed Bahr	U. 490	Dg	35	42	35	..	..	Gravel, fine	R-29	..	S.(H)	D	Clay admixed in gravel. Iron in water. FT.
14B1	L. B. Hope	T. 270	Dg	18	36	18	17	1	Gravel	R-19	..	S. 1	D	Water used in ice manufacture.
14B2	J. L. Schindler	T. 270	Dr	57	6	57	..	..	Clay, sandy	..	..	P	D	
14C1	. . . .do. . . .	T. 260	Dr	47	6	47	..	..	. . . .do. . . .	..	..	P. ½	D	Encountered numerous boulders 0-23 ft, sandy clay 23-47 ft. FT.
14D1	N. W. Swolgaard	T. 252	Dg	22.7	30	22	..	..	..	20.0	10-15-52	S	D. S	Report water has odd taste occasionally in summer.
14E1	Ray Moses	V. 247	Dg	32	72	6	29	3	Gravel	R-27	..	J	D	Water enters well at 3 levels. FT.
14E2	C. L. Moore	T. 253	Dr	50	6	50	..	..	..	..	..	J	D	Adequate supply. FT.
14N1	Frank Hamilton	V. 228	Dr	295	4	290	294	1	Sand	+14½	4- 8-53	N	NU	Report water has mineral taste. L.
15A1	Edwin Dennette	T. 248	Dr	42.6	6	42	..	..	..	32.1	10-15-52	J. ½	D	Supplies three homes. FT.
15G1	Rudy Ahrens	T. 243	Dg	25.3	36	..	..	..	..	21.8	9-11-52	S. (H)	D. S	Report has not gone dry in 30 yr.
15G2	Walton Hamilton	T. 239	Dg	22	6-24	22	20	2	Gravel	R-20	..	S	D. S	Inadequate supply.
15K1	S. C. Breen	V. 222	Dr	306	6	33	239 268	12 38	Sand, fine Gravel, fine	+36½	4-18-53	T. 15	Irr	Well pumps some fine sand; supplies fountain. Report initial head and flow (2/1/52) 60 ft. 525 gpm. L. H. FT. Temp 53.
15M1	Dennis Hamilton	V. 220	Dr	244	6	212	229	15+	Sand, coarse	+36½	4- 8-53	T. 15	Irr	Report initial head and flow (11/30/51) 41½ ft and 233 gpm. Pumped 3 days at 85 gpm; dd 34 ft. Pumps 150-175 gpm when irrigating. L.H.A.FT.Temp 52.
15M2	. . . .do. . . .	V. 220	Dg	28.6	24	..	..	..	Gravel, fine	4.9	10-23-53	S	D	
15N1	Nathan Hamilton	V. 218	Dg	23.9	48	20	20	2	Gravel	15.0	10-16-52	S	D. S	Inadequat e supply.
15N2	. . . .do. . . .	V. 213	Dg	18	48	16	5 17	2 1	. . . .do. . . . . . . .do. . . .	R-10	. .do. .	..	D. S	Inadequte supply. Blue clay 1-5 ft and 7-17 ft. L.

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Well no.	Owner or tenant	Topography Altitude (feet)	Type of well	Depth of well (feet)	Diameter of well (inches)	Depth of casing (feet)	Water-bearing Depth to top (feet)	Water-bearing Thickness (feet)	Character of material	Water level Below datum (feet)	Water level Date	Pump, type H. P.	Use	Remarks
	T. 13 N., R. 2 W.--Con.													
15R1	Frank Hamilton	V. 248	Dr	435	4-3	260	270	30	Sand	+12	4- 8-53	S. 3	D, S, Irr	Encountered basalt at 435 ft. Report well flows 30 gpm; pumped 70 gpm. Pumps some sand. L. FT.
15R2	.... do	V. 225	Dr	400	6-4	290	280	20	Gravel, fine	+27½	..do..	N	NU	Encountered basalt at 400 ft. Well R2 10 ft lower than R1. Report flow 50 gpm, pumped 120 gpm. L. FT.
16D1	--Larson	T. 208	Dr	32.3	6	32	25	7(?)	Sand	10.9	10-16-52	S. ½	D	Adequate supply.
16F1	Marvin Hamilton	T. 210	Dr	260	6	240	240	20	...do....	Flows	..do..	S. ¾	D	Water has "flat mineral" taste. L. FT.
16G1	Mary J. Thode	V. 208	Dg	12-15	10-18	12-15	..	..	Gravel, fine	..	..	S. ¼	D	Report water level fluctuates with creek level, 300 ft from well.
16H1	Mollie M. Hamilton	V. 211	Dr	210+	8-6	196	208	?	Sand	+37½	5-21-54	S. ¾	D, Irr	Report initial head and flow (9/14/51) 53 ft and 600 gpm. L. FT. Temp 52.
16H2	.... do	V. 213	Dg	18.8	48	..	..	..	..	5.6	9-11-52	S. 1	..	
16H3	Anna McLeod	V. 208	Dg	11.8	38	..	..	..	..	10.4	9-18-52	S. (H)	D	H. Temp 53.
16J1	Ralph Hearn	T. 214	Dr	105	6	105	95	10	Clay, sandy	R+23	1946	S	D	Report flow 15 gpm. Water has "mineral" taste. L. FT.
17A1	Frank O. Miller	H. 230	Dg	34	36	..	..	..	Clay and gravel(?)	R 29	..	J	D	Adequate supply.
17E1	G. K. Williams	U. 365	Dg	44.4	60	6	43	4	Gravel, polished	39.4	10-29-52	N	D	Report very slow recovery. FT. Temp 51.
17F2	James A. Miller	U. 353	Dg	28.0	42	6	..	..	Clay and gravel	22.0	10-24-52	S	D	Dug in yellow clay and badly-weathered gravel. FT.
17G1	L. Pemerl	U. 407	Dg	35.0	42	..	..	..	..	25.2	..do..	J	D, S	Adequate supply.
17K1	R. J. Stafford	U. 411	Dg	43.6	48	3	..	..	..	29.1	10-24-52	J	D, S	.... Do ....
17M1	..	U. 365	Dg	52.3	36	52(?)	..	..	..	41.4	10-29-52	J. ½	NU	FT. Temp 51.

Table 1.--Records of representative

Well no.	Owner or tenant	Topography Altitude (feet)	Type of well	Depth of well (feet)	Diameter of well (inches)	Depth of casing (feet)	Water-bearing Depth to top (feet)	Water-bearing Thickness (feet)
	T. 13 N., R. 2 W.--Con.							
17M1	Oliver Weiher	U. 380	Dg	24.7	54	0	..	..
17R1	M. W. Bockhorst	U. 417	Dg	62	72-60	0	..	..
17R2	Bob Rucker	U. 418	Dg	38.2	48	..	..	..
17R3	Robert Frazer	U. 420	Dr	65	6	65	35	30
18H1	E. W. Jasmer	V. 330	Bd	42	8	42	..	..
18R1	Carl Lamb	U. 380	Dg	38.1	54	8	..	..
19G1	Steve Douglas	U. 395	Dg	42.9	30	..	..	..
19H1	Robert S. Hartley	U. 395	Dr	89	6	89	84	5
19J1	J. D. Cowley	U. 405	Dg	55	36	55	..	..
19L1	Clair Roberts	U. 397	Dg	53.8	48	53	..	..
19M1	A. A. Sanee	U. 398	Dg	83	72	83	..	..
19R1	Ed Milton	H. 345	Dg	40	56	28	35	5
20D1	E. W. Phillips	U. 397	Dg	43.3	60-48	..	..	..
20F1	H. C. Leard	U. 403	Dg	62	40	6	57	5
20R1	E. W. Olsen	U. 402	Dg	60	60	12	..	..
21D1	J. E. Thomas	U. 430	Dg	33	50	6	..	..
21D2	A. M. Cook	U. 425	Dg	25.4	40	4.5	..	..

wells in Lewis County, Washington--Con.

Zone(s) Character of material	Water level Below datum (feet)	Water level Date	Pump, type H. P.	Use	Remarks
Clay and gravel	23.8	10-29-52	S	D	Dug in yellow clay and weathered gravel. Inadequate supply. Water rust-colored.
..	R-42	..	J	D	Adequate supply.
..	30.9	10-24-52	J	D	Inadequate supply. Well recovers 3 ft overnight.
..	R- 5(?)	August 1949	J, 1½	D, S	Rapid recovery. Water hard. Casing perforated.
Sand	..	..	J, ½	D, S	Clay overlies aquifer.
Sand(?)	35.0	10-30-52	J, ½	D	Some iron in water. Temp 52.
..	37.9	.. do ..	J, ½	D, S	Adequate supply. Temp 51.
Gravel, fine and brown sand	R-50	July 1952	J, ½	D	Well drilled in yellowish clay most of upper 84 ft. FT.
Clay and gravel	..	..	J, ½	D, S	Well cased 0-4 ft and 45-55 ft. Dug in clay and weathered gravel. Iron in water.
..	48.9	10-30-52	J, ½	D, S	Temp 49.
Gravel and sand	R-73	..	J, ½	D, S	Adequate supply.
Sand, brown	R-39½	..	N	NU	Inadequate supply. L.
Clay and gravel	35.3	10-30-52	J, ½	D	Adequate supply.
Sand	R-42	..	J, 1	D	Supply for 3,000 chickens.
..	R-49	..	J, ½	D, S	Inadequate supply.
Clay and gravel	R-27	..	T	D	Dug in yellow clay and weathered gravel. Use copper pipe; water stains porcelain green.
..	15.3	10-24-52	S, ¼	D	Dug in yellow clay and weathered gravel. Iron in water. Water builds up red-brown crust in pipes. H. FT.

Table 1.--Records of representative wells in Lewis County, Washington--Con.

Well no.	Owner or tenant	Topography Altitude (feet)	Type of well	Depth of well (feet)	Diameter of well (inches)	Depth of casing (feet)	Water-bearing Depth to top (feet)	Water-bearing Thickness (feet)	Zone(s) Character of material	Water level Below datum (feet)	Water level Date	Pump. type H. P.	Use	Remarks
	T. 13 N., R. 2 W.--Con.													
21D3	C. D. Roberts	U. 420	Dr	140	6	140	115	10	Gravel, fine, yellow	R-115	1948	T. 5	D. Irr	Well originally 200 ft deep. Report water level constant seasonally. Pumped 4 hr at 60 gpm, no measured dd. L.FT.
21E1	Bonneville Power Adm.	U. 432	Dr	612	10-8	550	134	28	Sand and gravel	R-115	6- 7-40	T	D. Ind	Pumped 6 hr at 73 gpm, dd 4 ft. FT. L.
21F1	O. E. Eastman	U. 433	Dg	36	30	10	35	1	Gravel	R- 21	Jan. 1949	J	D	Dug in yellow clay and weathered gravel.
21K1	Alex Balestra	U. 442	Dg	30.6	60	6	31	1	Sand	25.7	10-24-52	J	D	Yellow clay and weathered gravel 6-31 ft.
21K2	T. M. Balestra	U. 440	Dr	175	8	175	139	21	Gravel and sand	R-127	9- 7-53	T. 10	D. S. Irr	Pumped 4 hr at 200 gpm, dd 14 ft. FT L.
21M1	..	U. 407	Dg	21.0	48	0	..	..	..	18.0	10-30-52	S. 1/2	D	Inadequate supply. Temp 52.
21N1	Lee Uehling	U. 410	Dg	25.8	42	0	..	..	..	23.3	. .do. .	J. 1/2	D	Adequate supply.
21P1	Don Hamilton	U. 420	Dr	165	6	145	125	11	Gravel	R- 30	10-16-51	T. 7½	S	Encountered basalt(?) at 136 ft. Pumped 200 gpm, dd 55 ft. L.
21R1	J. C. Carlson	U. 442	Dg	31.8	42-36	6	24	8	Gravel and clay	24.2	10-24-52	S	D. S	Well in yellow clay and weathered gravel. FT.
21R2	. . . . do	U. 441	Dr	168	8	168	70 139	10 16	Gravel and sand Sand and gravel	R-135	3-12-54	T-15	Irr	Pumped 12 hr at 120 gpm, dd 10 ft. Can hear water entering casing at 70-80 ft. L.
22E2	Grant Gleason	T. 276	Dg	16.1	36	..	11(?)	16	Sand	15.2	10-16-52	S	D	Inadequate supply. Chunks of wood 4-5 in. square encountered from 10-14 ft when dug.
22G1	William A. Wichert	T. 240	Dr	130	6	130	28 100	12 10	Sand and gravel Sand, fine	R- 8	..	J. 3	S. Irr	Pumped 4+ hr at 40 gpm; dd 4 ft. Pumps some sand and fine yellow mica. L. FT.
22H1	J. E. Breen	V. 245	Dg	35	36	35	..	..	..	20.6	10-16-52	P. 1/6	D	Adequate supply.
22P1	John Jensen	H. 330	Dg	45.6	24	45	..	..	Sand	39.6	10-24-52	J	D	Inadequate supply.
22P2	G. V. Curtis	H. 320	Dg	11	30	11	10	1	. . . .do. . . .	R- 1	..	S. 1	D	Blue clay 0-7 ft, "rock" 7-8 ft, reddish sand 8-10 ft.

Table 1.--Records of representative wells in Lewis County, Washington--Con.

Well no.	Owner or tenant	Topography Altitude (feet)	Type of well	Depth of well (feet)	Diameter of well (inches)	Depth of casing (feet)	Water-bearing zone(s) Depth to top (feet)	Water-bearing zone(s) Thickness (feet)	Character of material	Water level Below datum (feet)	Water level Date	Pump, type H. P.	Use	Remarks
	T. 13 N., R. 2 W.--Con.													
23A1	Glen Bond	V. 252	Dg	30	48	6	..	..	..	R-20	..	S	D	Inadequate supply.
23B1	W. F. Nowadnick	V. 240	Dg	20-24	72	..	..	..	..	R- 3	Winters	S	D, S	Rapid recovery. Supplies two homes. Iron in water, red-brown crust builds up in pipes.
23C1	Newton Stedham	V. 242	Dg	23	36	..	..	..	Sand	..	11- 7-52	S, ½	D, S	Inadequate supply, went dry fall of 1952.
23E1	W. W. Bond	V. 232	Dg	15	24	15	14	1	. . . .do. . . .	R-13	..	S	D, S	Inadequate supply.
23N1	L. Ratkowski	T. 258	Dg	14.5	48	6	7	1	Gravel and sand	6.8	12-22-52	S	D	Encountered 8- to 10-in. boulders. Temp 54.
24A1	I. I. Edwards	V. 270	Dg	25.4	48	14	..	..	Gravel	10.6	1-14-53	S, ½	D, S	Well in cobbles, gravel, fine sand.
24B1	Tom Dobyns	T. 280	Dg	22	60	..	..	..	. . . .do. . . .	R-12	..	S, ½	..	Rapid recovery.
24M1	Harry Lundgren	T. 280	Dg	32	48(?)	..	..	..	..	..	..	S, ½	D, S	Inadequate supply.
24P1	Ed C. Matson	T. 282	Dg	22	42	7	..	..	Clay and gravel	17.8	11- 7-52	S, ½	D	. . . . Do . . . .
25A1	F. W. Anderson	T. 303	Dg	24	48	8	..	..	Large "rocks"	R-16	..	S	D	Adequate supply.
25B1	A. A. Lange	T. 295	Dg	23	..	5	..	..	. . . .do. . . .	R-17	..	S	D	. . . . Do . . . .
25C1	Z(?) Zoambelan	T. 286	Dg	24.5	48	6	..	..	..	19.5	11- 7-52	S, ¼	D	. . . . Do . . . .
25F1	Ray Vatne	T. 290	Dg	30	60	8	..	..	Sand and gravel	..	..	J	D	Inadequate supply.
25G1	John Carnes	T. 299	Dg	33.1	36	..	..	..	"Rocks"	29.5	10-21-52	J, ½	D, S	FT. Temp 56.
26A1	F. F. Stedham	T. 282	Dg	16.7	40	18	15	3	Sand, black	15.2	10-22-52	S	D	Blue sandy clay 3-15 ft. FT. Temp 51.
26A2	L. W. Estep	T. 280	Dg	20	48	20	..	..	..	R-16	..	S	D	Adequate supply.
26E1	W. T. Bennett	H. 405	Dg	33	..	33	..	..	..	R-31	..	J	..	Inadequate supply. Boulder at 33 ft.
26G1	John Hodgson	T. 289	Dr	50	4	45	..	..	..	R- 4	June 1950	S, 8½	D, Irr	Pumped 4 hr at 100 gpm, dd 7 ft.
26G3	Charles Federson	T. 285	Dr	138	6	138	138	..	Sand, gray	R-19 8.9	8- 2-53 8-25-54	S, 1	D	Tested 30 gpm, dd 10 ft. . L.

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	T. 13 N., R. 2 W.--Con.													
26L1	George L. Milton	H. 315	Dr	145	6	145	140	20	Sand, fine	R-50	..	J, 1	D	Drilled 160 ft deep. Pumps sand. FT, L.
26L2	Glenn Whicker	H. 395	Dg	43	36	43	..	..	..	..	..	J	D	Adequate supply.
26M1	Harry Bowen	U. 440	Dg	19.1	36	6	..	..	..	17.4	10-22-52	S, ½	D	Temp 51. FT.
26M2	J. L. Clement	U. 440	Dr	160	6	140	155	5	Sand, fine	R-80	1947	J	..	Water stains white enamel fixtures yellow. L, FT.
26N1	D. Dyment	U. 445	Dg	21.2	48	8	..	..	..	17.7	10-22-52	S, ½	D	Adequate supply. Temp 51.
26N2	R. T. Evans	U. 443	Dr	73.6	6	85	84(?)	1(?)	..	18.61	. .do. .	S, 1	D	Well drilled 145 ft deep in blue clay from 85-145 ft. H.
27B1	Charles G. Curtis	H. 265	Dg	29.7	60-30	..	..	..	..	24.3	10-24-52	S, ½	D, S	Brown sediment forms in standing water. FT.
27C1	G. V. Curtis	H. 385	Dr	76	6	76	..	..	..	R-dry	. .do. .	N	De	Well drilled in red sandy clay, stopped at blue clay.
27C2	. . . .do. . . .	H. 400	Dg-Dr	200	6	100	..	..	..	R-dry	. .do. .	N	NU	Well drilled in dry 40-ft dug well. Blue clay 40-200 ft.
27F1	Alex Messal	U. 441	Dg	19.3	84-72	6	..	..	..	14.9	10-31-52	S, ¼	D	Adequate supply.
27M1	H. Carlson	U. 441	Dg	40	48	..	..	..	Gravel, weathered	R-34	..	P, ¾	D, S	Gravel badly-weathered, mixed with mellow clay. Pebbles (½-¼ in.) are light-weight, can be broken between fingers.
27Q1	A. H. Senne	U. 440	Dr	95	6	95	..	..	..	R-25	1947	J, 2	D	Supplies two homes.
27Q2	R. Q. Fudge	U. 442	Dg	34	44-52	12	34	?	Gravel and clay	R-21	..	S, 1	D	Iron(?) in water. FT, L.
27Q3	A. F. Cassidy	U. 454	Dg	33	48	10	32	33	Sand, black	R-27	..	P, ¼	D	Adequate supply.
27Q4	Frank L. Holmes	U. 439	Dr	84	6	84	80	84	Sand and gravel	R-15	Sept. 1952	S, ½	D	Pumped 4 hr at 30 gpm, dd 7 ft. L.
28A1	J. C. Carlson	U. 440	Dr	175	8	175	142	18	Gravel and sand	R-139 149.8	3- 9-54 8-15-55	T, 15	Irr	Well being pumped when measured; had pumped 110+ gpm all day. Test pumped 160 gpm, dd 10 ft. L, FT, Temp 51.
28C1	Charles Hendrickson	U. 414	Dr	132	6	112	103	11	Sand ..	R-45	10- -51	N	NU	Pumped 200 gpm; dd 75 ft. L.

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	T. 13 N., R. 2 W.--Con.													
28F1	Carl Cook	U, 418	Dg	35.2	48	15	..	..	..	29.1	10-31-52	J. ½	D, S	Reports water level constant seasonally. Temp 50.
28H1	E. J. Greenwood	U, 442	Dg	35	60	35	..	..	.. .. ..	R-30	1949	J. ½	D, S	Report water level constant. Iron in water.
28J1	Frank A. Brooks	U, 405	Dg	16.9	72	5	..	..	..	14.1	10-31-52	S. ½	D, S	Inadequate supply. Water forms scaly rust in pipes. FT, Temp 53.
28L2	C. I. Moger	U, 427	Dg	44.5	60	10	..	..	.. ..	38.3	12-30-52	J. ½	D	Adequate supply.
28L3	. . . .do. . . .	U, 420	Dg	48.4	45	3.5	..	..	..	42.2	. .do. .	P. (H)	S	. . . .Do. . . .
28R1	--Jones	U, 430	Dg	30.1	60	6	..	..	..	25.1	10-31-52	J. ¼	D	Adequate supply. FT.
29M2	A. F. Moore	U, 405	Dg	25	48	8	..	..	Clay, sandy	R-15	..	S. ¼	D, S	Clay, yellow, contains some gravel.
30J1	Ella Courtney	U, 380	Dg	22	48	22	..	..	. . . .do. . . .	R-18	..	S	D, S	. . . .Do. . . .
31B1	Nathan Creemer	V, 210	Dr	36.0	12	20	30	..	Shale	1.0	5-15-53	N	NU	Tested 20 gpm, dd 19 ft. L.
31B2	. . . .do. . . .	H, 255	Dr	244	12	100	110	..	..	28.5	11- 5-52	J. 1	D, S	Yield 10 gpm, shaly, friable sandstone 110-235 ft.
31C1	Grover Mullins	V, 225	Dr	50	6	50	42	8	Sand, coarse	R- 1	1947	T. ⅝	D, S Irr	Irrigation 22 acres. L, FT.
31R1	Ed Haase	U, 405	Dr	222	8-6	222	185	57	"Shale", sandy	R-152	8- 7-52	T. ⅝	S, D, Irr	Pumped 4 hr at 50 gpm, dd 27 ft. FT, L.
32B1	R. W. Schmidt	V, 260	Dg	10.5	24	10	..	..	.. ..	1.4	11- 5-52	S. ½	D	Adequate supply.
32M1	Mark F. Ralph	V, 240	Dg	33.4	32	33	32	33	Sand	27.1	. .do. .	J. ½	D	. . . .Do. . . . FT.
32P1	Phyliss Carter	H, 275	Dg	10	48	0	..	..	.. ..	R- 3	..	S	D	Well flows during winter.
33C1	Leo Luce	U, 420	Dg	60	..	..	..	..	..	..	..	J	D	Adequate supply.
33D1	Floyd Bartlett	U, 400	Dg	63	48(?)	53	..	..	Sand and clay	..	..	J. ¼	D, S	. . . .Do. . . .
33L2	L. H. Nelson	U, 433	Dg	52	36	12	50	2	Gravel, sandy	R-42	..	J. ½	D, S	Clay 3-50 ft, pebbles and cobbles toward base.

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	T. 13 N., R. 2 W.-- Con.													
33R1	John Lemons	U, 407	Dg	40.0	42	40	34	6	Clay and gravel	34.4	10-31-52	J, ½	D, S	Inadequate supply. Sand layers in gravel and clay.
34A1	E. Robinette	U, 439	Dg	24.5	36	..	..	..	..	17.5	10-23-52	S, ½	D	Adequate supply.
34A2	Ted Brueger	U, 438	Dg	18.2	26	18	..	..	..	16.0	. .do. .	S, ½	D, S	Adequate supply. FT
34A3	..	U, 444	Dr	101	8	101	60	40	Gravel	R- 36	Aug. 1954	..	PS	Pumped 120 gpm. dd 64 ft. L.
34G1	L. J. Buroker	U, 431	Dg	23.7	36	24	..	..	..	12.2	10-31-52	S, ½	D, S	Much iron in water.
35B1	Delbert A. Emerson	U, 447	Dr	135	4	135	130	9	Sand, fine	R- 60	June 1946	J, 1	D, S	Occasionally pumps sand. Supplies 2,000 turkeys in summer, and 1,500 chickens. L.
35D1	H. Greeny	U, 442	Dg	20	36	20	19	1	Gravel	..	..	S	D	Water yellowish in fall, 1952.
35D2	Paul Miller	U, 440	Dg	24.9	36(?)	..	..	..	..	19.0	10-23-52	S, ½	D, C	Supply inadequate for service station. FT.
35D3	. . . .do. . . .	U, 440	Dg-Dr	85	6	85	70	15	Sand and gravel	R-15	4-21-53	..	D,Ind	Originally 35D2. Bailed 20 gpm. dd 49 ft. L.
35D4	Otto Kohse	U, 440	Dg	18	36	12	17½	½	Gravel, fine	R-16	1945	S, ½	D	Well occasionally pumped dry.
35G1	Mack Hilts	U, 442	Dg	24.0	48	6	..	..	..	6.0	1- 6-53	S, ½	D	Adequate supply.
35H1	George Burton	U, 460	Dg	23.1	60-78	..	..	..	..	12.4	. .do. .	S	D	Water slightly "rusty". Temp 50.
35L1	L. M. Newman	U, 448	Dg	17.9	27	18	..	..	..	2.1	. .do. .	S, ½	D, S	FT. Temp 45.
35M1	E. W. McCoy	U, 440	Dg	26	36	26	19	7	Clay and gravel	17.3	. .do. .	S, ½	D	Water red, if well not pumped. Temp 50.
35N1	W. O. Wright	U, 455	Dg	28.3	30	28	..	..	.. ..	26.3	11-13-52	S	D	Supply usually adequate. FT. Temp 50.
35Q1	Robert Phair	U, 460	Dg	23.5	30	16+	..	..	..	14.6	1- 6-53	S, ½	D, S	Adequate supply.
35Q2	C. M. Gibson	U, 444	Dg	18	12 by 21	..	..	..	..	R- 6	8-15-52	S, 3	Irr	Pumped 24 hr at 45 gpm. dd 6 ft.

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	T. 13 N., R. 2 W.--Con.													
35R1	S. Johnson	U. 465	Dr	85	6	85	..	..	Gravel, polished	R-21	1947	J	D	Bailed 15 gpm, dd 33 ft.
35R2	"Cap" Steinhoff	U. 452	Dg	24	36	24	23	1	Gravel	R-14	..	S. ½	D. S	Adequate supply.
36D1	R. E. Moore	U. 460	Dg	40	42	0	..	..	..	..	..	J	D. S	Supply inadequate in the winter, adequate in summer. Report recovers 10 ft in 6 hr.
36H1	Frank Winkler	U. 460	Dg	40	72	6	..	..	..	..	..	J. ½	D. S	Well has never been pumped dry.
36J1	W. D. Bishop	U. 486	Dg	42	42	2	..	..	..	R-35	Aug. 1952	F. ½	D. S	Report yield 5 gph.
36N1	Louis Holmes	U. 460	Dr	80	6	80	..	..	Sand, fine	R-20	..	J. ½	D	Adequate supply. FT.
36N2	George Brossard	U. 470	Dr	112	6	112	..	..	Sand	R-26	..	J	D. S	Adequate supply.
36N3	J. D. Redwine	U. 468	Dr	120	8	120	47	70	Sand and gravel	25.0	1-27-53	T. 7½	Irr	Pumped 4 hr at 150 gpm, dd 24 ft. L.
36P1	John A. Peterson	U. 475	Dr	135	6	136	40 58 101	12 22 22	Gravel and sand . . . .do. . . . . . . .do. . . .	29.4	9-24-53	T. 7½	Irr	Pumped 4 hr at 96 gpm, dd 30 ft. L, H.
36P2	. . . . do	U. 480	Dr	101	6	101	70 100	.. 1	Sand Gravel	28.5	10-23-52	..	D	Adequate supply.
36P3	R. K. Rohr	U. 473	Dr	118	6	118	..	..	..	..	..	J	D. S	Supplies 4000 chickens. Yield 5 gpm.
36Q1	William Eskeli	U. 455	Dr	62½	6	62½	55	7½	Gravel and sand	R-22	3-13-53	J. ½	D	Yield 5 gpm. L.
36R1	Ben Norman	U. 500	Dg	40	42	4	39	1	Sand, some gravel	..	..	J. ½	D	Adequate supply.
36R2	. . . . do	U. 500	Dg	37.9	48	0	..	..	..	9.3	1- 7-53	F. ½	S	Water seeping into well from 3-ft level on down at time of measurement. FT. Temp 46.
	T. 13 N., R. 3 W.													
1C1	Art Hamilton	V. 174	Dg	29.1	42	8	..	..	..	14.8 14.5	5-22-47 7-17-53	S	NU	FT.
1D1	Thor Heden	V. 175	Dg	20	24	20	..	..	Loam, sandy	R-10	..	S. ½	D	Encountered blue clay at 24 ft Rapid recovery.
1H1	Adolph Kaech	V. 179	Dg	18	8	18	..	..	..	..	..	S. ½	D. S	Pumped dry in summer, 1952. -

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	T. 13 N., R. 3 W.--Con.													
1M1	Frederick Young	V. 185	Dr	43	6	43	..	..	Gravel	R-16	..	T. 5	Irr	Pumped 10 hr at 90 gpm. dd 14 ft.
1N1	.... do	V. 190	Dr	104	6	50	100	4	Shale(?)	19.2	6-15-53	J. 1	S	Yield 5 gpm. Water hard, tastes odd. Report water level fairly constant seasonally. Dry well (170 ft) drilled on property. L
1Q1	Frank Styger	H. 260	Dg	10	54	10	..	..	Sand	..	..	G	D. S	"Hardpan" overlies sand.
2D1	Kenneth Walker	H. 283	Dr	108	6	40	90	18	Sand, white	R-14	1945	J. ¾	D	L. FT
2D2	John Peters	H. 284	Dg.Bd	24.7	36- 8	5.5	..	..	..	6.8 6.5	5-28-47 6-16-53	S. (H)	NU	Well bottoms on solid rock.
2D3	.... do	H. 290	Dg	21	30	21	..	..	..	13.4	6-16-53	S	D	Well bottoms on solid rock. Water hard, contains iron.
2F1	H. D. Peters	H. 260	Dg.Dr	90	6	..	..	..	Basalt	..	..	J. ½	D	Basalt from 55 to 90+ ft. Water leaves rust stain. FT. A.
2F2	L. E. Peckinpaugh	H. 245	Dg.Dr	70	6	70	..	..	..	24.6	7- 1-53	J. 1	D. S	Pumps white sand.
2G1	Lee Blackwell	H. 267	Dg	22.0	54	5	..	..	..	14.9 11.8	5-27-47 6-16-53	S. ½	D	Iron in water.
2G2	I. A. Briske	H. 222	Dr	78	6	40(?)	..	..	..	16.7 13.5	5-28-47 6-16-53	J. ½	D	Adequate supply. FT.
2G3	F. T. Wilson	H. 200	Dg	28.7	48	28	..	..	..	24.6 18.5	5-28-47 6-16-53	S. ½	D	Well beds on solid rock.
2G4	Ida Briske	H. 225	Dr	221.5	6	..	..	..	..	13.9	6-17-53	N	NU	Drilled thru basalt, stopped in blue clay.
2G5	L. A. Tennant	H. 230	Dr	100	6	100	..	..	.. ..	R-60	Aug. 1952	J. ½	D. S	"Iron" taste.
2K1	Ted Spence	H. 200	Dr	65	6	65	72	26(?)	Sand and fine gravel, white	29.0	7- 2-53	P. 1	NU	Well drilled 105 ft, casing pulled back to 65 ft. Originally bailed 12+ gpm. Pumps white sand. Report inadequate supply, slow recovery. L.
2K2	.... do	H. 190	Dg	17½	36	0	17	½	Basalt ..	R-16	..	N	NU	Well in basalt from 4-17½ ft.

Table 1.--Records of representative wells in Lewis County, Washington--See.

Well no.	Owner or tenant	Topography, Altitude (feet)	Type of well	Depth of well (feet)	Diameter of well (inches)	Depth of casing (feet)	Water-bearing zone(s) Depth to top (feet)	Water-bearing zone(s) Thickness (feet)	Character of material	Water level Below datum (feet)	Water level Date	Pump, type- H. P.	Use	Remarks
	T. 13 N., R. 3 W.--Con.													
2M1	R. T. Cole	H. 254	Dr.Dr	122	6	60±	103	19	Sand, white	40.3 36.3	5-27-47 6-19-53	J. 1	D. S	L. FT.
2M2	Evergreen Breeders Co-op	H. 260	Dr	114	6	30	..	..	Sand	..	..	J. 1	S	Encountered hard rock at 30 ft. Well pumps sand.
2M3	Jerry Peters	H. 240	Dr	114	6	25	108	6	Sand, white	R-35	Summer 1952	J. 1	D	Pumped 8 hr at 12 gpm; dd 20 ft. L.
2N1	Dale Snelson	V. 180	Dg	22.7	24	23	..	..	..	18.0	7- 2-53	S. ¼	NU	
2N2	R. B. Butler	V. 180	Dg	32	30	32	28	4	Gravel, cemented	R-24	..	J. ½	D	Adequate supply.
2P1	C. E. Black	V. 182	Dr	48	6	48	37	..	Gravel	R-15 R-26	Jan. 1948 July 1948	J	D. S	Well bottoms in solid rock. Some iron in water.
3A1	Lester Finley	H. 240	Dg.Dr	30	6	..	119	11	Rock, soft	29.2 31.6	5-28-47 6-16-53	J. ¾	D. S.	Supplies 2 homes. Water hard, contains iron. L.
3B1	Willian Wilson	H. 236	Dg	27	..	27	21	6	Gravel	R-19	Summer 1950	S. ½	D	Well bottoms on "solid soapstone".
3B2	Anton P. Erp	H. 240	Dr	72	6	32	26 65	7 5	"Sandstone" Sand(?)	25.6	6-17-53	J. ½	D. S	Report water level 20 ft below surface in winter. Iron in water. L.
3D1	Walter Marth	H. 250	Dg	37.5	40	7	20	..	Clay, red	24.0	6-17-53	J	D	Supplies 2 homes. Goes dry in summer. Water has "mineral" taste when low.
3J1	A. C. Hoveland	H. 200	Dg	25.9	48-36	..	..	..	..	15.8 19.9	5-28-47 6-19-53	S. ¼	D	Cased from 0-3 ft and bottom 9 ft. Water harder when water level low(Aug-Sept.)
3Q1	Thomas Cole	H. 200	Dr	72.5	16-8	8	..	..	..	Flows	. .do. .	N	NU	Well drilled 1492 ft. Ball of hemp stuck in pipe at 72 ft Basalt from 0-70 ft. Water-bearing at 100 ft, 350 ft, 750 ft. A "starfish" at 1400± ft. Water bubbles. Rapid recovery. FT.
3Q3	George Hofmann	V. 190	Dn	40	2	40	..	..	Sand	R-12	..	S. ¼	D	Well bottoms on hard formation. Water has "iron" taste.

Table 1.--Records of representative wells in Lewis County, Washington--Con.

Well no.	Owner or tenant	Topography, Altitude (feet)	Type of well	Depth of well (feet)	Diameter of well (inches)	Depth of casing (feet)	Water-bearing zone(s) Depth to top (feet)	Water-bearing zone(s) Thickness (feet)	Character of material	Water level Below datum (feet)	Water level Date	Pump, type-H. P.	Use	Remarks
	T. 13 N., R. 3 W.--Con.													
3R1	Katherine Lund	V. 188	Dr	36.9	4	..	..	..	..	12.3	6-19-53	N	NU	Well 50 ft NE of well 3R2.
3R2	.... do	V. 188	Dr	43.3	6	..	..	..	..	11.0	..do..	S. ¼	D	Iron in water.
3R3	D. L. Sullivan	V. 188	Dr	57.5	6	57	..	..	..	10.7	..do..	J	D	Well bottoms on hard rock. Iron in water.
3R4	Jack Moon	V. 190	Dr	52	6	52	..	..	..	12.8	..do..	S	D	Hard rock from 38-50 ft. Water hard, has "mineral" taste.
3R5	J. E. Schwarz	H. 197	Dr	75	6	60(?)	60	15	Sand, white	R-40	..	J. ¾	D	Drilled 88 ft. Supplies two homes. L. FT.
4A1	James Corp	H. 270	Dg	29.5	48	7	..	..	..	17.9	6-18-53	S. ½	D, S	Report well goes dry in July. Much iron in water.
4G1	Ralph Nelsen	H. 265	Dg	25.9	45	4	..	..	..	20.8	..do..	S	D	Adequate supply.
4J1	Pearl Massingham	H. 275	Dg	30	48	3	..	..	"Clay" white	13.3	6-18-53	S. ¼	D	Report well goes dry in Aug.
5G1	C. L. Back	V. 205	Dr	168	8	125	..	..	"Sandstone"(?)	R-10	July 1952	J. 2	D, S	Yield 30 gpm. Former 30-ft well had good yield but unsatisfactory water. L.
5J1	Dewey Gowen	V. 200	Dg	26	30	26	..	..	Gravel	R-19	Summer 1953	S. ½	D, S	Silt, sand, "hardpan", overlie gravel. Report 12-ft seasonal range in water level. Report "plenty of water".
5P1	Ray Hagerman	V. 202	Dr	70	6	70	..	..	Sand	..	..	J. ¾	D	Drilled through rock, water-bearing material above and below rock. Water hard, leaves brown stain.
5R1	Tramm Bros.	V. 197	Dr	95±	6	95	..	..	"Clay"	R-12	1947	P. 1	D, S	Encountered no basalt. Supplies 2 houses. Water hard.
6D1	Charles Brown	V. 203	Dg	36	48 by 48	12	28	8	Gravel	R-26	Summer 1953	P. ½	D, S	Adequate supply.
6J1	William Walch	V. 215	Dr	97	6	..	..	..	..	Flows	Spring 1950	S. ½	D, S	.... Do. ....
6R1	--Raschke	V. 214	Dr	230	6	230	130	100	"Sandstone"	Flows	12-23-53	J. 2	D, S	Yield more than 15 gpm. FT

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	T. 13 N., R. 3 W.--Con.													
7J1	Martin Toporke	H. 255	Dr	29	6	19	..	..	Gravel, fine	R-18	Summer 1953	P. ½	D	Water hard, leaves brown stain.
7J2	Arthur Anderson	H. 255	Dr	160	6	24	88	72	"Sandstone"	R-68	August 1952	J. ½	D	Yield 12 gpm, dd 97 ft. L. FT. Temp 48(?)
8C1	A. H. Anderson	H. 215	Dr	152	6	148	..	..	Sand, white	R-Flow	1947	T. 3	D, S	
8E1	E. Zandecki	H. 254	Dr	83	6	..	..	..	Gravel	R-Flow	1949	J. 1	D, S	Pumped 3 hr at 4½± gpm; dd ½ ft.
8F1	C. S. Santee	H. 240	Dr	150	6	80	..	..	..	Flow	12-24-53	S. ¼	D	Encountered rock or "hardpan" at 80 ft.
8G1	--Haase	H. 223	Dg	20	48	..	14	6	"Sandstone"	R-13	Summer 1953	S. ½	D	Red clay overlies "sandstone" Bark, wood in "sandstone". Iron in water.
8G2	--Tanksley	H. 238	Dr	150	6	25	110(?)	..	Gravel	R- 8	1949	J. 1	D, C	Supplies service station. L.
8G3	Earl Anderson	H. 240	Dr	172	6	48	..	..	"Sandstone"	R-20	1946	J. 1	D, S	L.
8K1	C. A. Lindstedt	H. 240	Dr	175	6	36	112	65(?)	Sand, dark green	R-33	1952	J. 1½	D, S	L. FT.
9A1	H. L. Starry	H. 210	Dg	11½	48-42	0	..	..	Clay and gravel	R- 5	..	S	D, S	Recovered 2½ ft in 5 hr after being pumped dry.
9B1	Carl Haase	V. 190	Dg	23.2	6	23	..	..	..	11.2	6-18-53	S. ½	D	Adequate supply. Rapid recovery. FT.
9B2	Susie Blakemore	V. 189	Dg,Bd	25.8	54-8	26	..	..	..	11.6	. .do. .	S. ½	D, C	Encountered "hardpan". Supplies 2 homes and grocery store. FT.
9G1	Adna Grange	V. 185	Dg	28.7	48	4.2	..	..	..	14.2	6-24-53	S. ¼	Inst	H.
9G2	Remund Bros.	V. 178	Dr	40	4	40	..	..	..	R-20	..	J	D, S	Drilled thru "black rock" from 30 to 40 ft. Iron in water. FT.
9G4	Art Scherer	V. 185	Bd	30.3	10	36½	36	½	Gravel	18.3	6-18-53	S. ½	D, C	Supplies 3 homes, gas station, grocery store. L.
9H1	Ed Nielsen	V. 183	Dr	40	6	40	38	2	Gravel, fine	R-12	1945	J	D, S	Bailed 25 gpm. Rapid recovery.
9K1	Raymond Bullock	V. 185	Dr	20	7	20	..	..	..	..	..	S. ¼	D	Report nearby 100-ft well drilled. Yielded "poor" water.

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	T. 13 N., R. 3 W.--Con.													
9R1	Mrs. I. T. Smith	V. 176	Dg	15	36	10	10	5	Silt	R-10	..	S	D, S	Encountered blue clay at 15 ft. Rapid recovery. Iron in water.
10B1	W. L. Mezger	V. 185	Dg	45	36	45	..	..	Gravel, fine	11.0	6-18-53	J ½	D, S	Water level rises when land adjacent to well irrigated from river.
10B2	Harry Orr	V. 185	Dr	53.9	6	54	..	..	..	11.6	.do.	S, ½	D	Adequate supply.
10F1	Herbert Sayler	V. 183	Dg	21.3	36	15	..	..	..	12.2	.do.	S, ½	D, S	Report water level fairly constant.
10F2	H. N. Grossman	V. 186	Dg	17.1	6	17	..	..	..	8.1	.do.	S, ½	D	Report water level near top of well in winter.
10E1	W. D. Hofmann	V. 180	Dg	25	10-36	25	18	7	Sand	R-13	Sept. 1951	S	D	Rapid recovery.
10H1	Leo Rahm	V. 177	Dr	49.5	4	46+	..	..	..	24.1	6-19-53	J, ½	D, S	Water hard, yellowish.
10N1	Max Orloske	H. 238	Dg	16.6	..	16	..	..	Gravel	11.9	7- 2-53	S, ¼	D	Rapid recovery.
10R1	C. A. Myers	V. 195	Bd	33	6-4	22	..	..	Sand	..	..	J	D	Adequate supply.
11D2	Louis Bamer	V. 185	Dr	50	..	..	..	..	..	..	..	J, ½	D	Iron in water. FT.
11D3	G. H. Hall	V. 185	Dr	57	10	57	..	..	..	R-30	May 1953	T. 3	D	Report no gravel encountered when well drilled. Has pumped 36 hr steadily.
11F1	L. F. Rayton	V. 186	Dr	50	6	50	38	12	Gravel	R-20	..	J	D, S	Water hard.
11M1	M. F. Whittaker	V. 185	Bd	25-30	18	8	..	..	..	..	..	S, (H)	D	Adequate supply.
11M2	William Payne	V. 186	Dg	19.0	78	19	..	..	..	12.8	7- 2-53	S	D	FT.
12D1	F. L. Young	H. 240	Dr	95	6	90	80	10	Gravel, weathered	R-30	1944	J, ¾	D	Well drilled 150 ft deep. Yield 3-4 gpm, supplies two homes. L.
14D1	G. H. Whittaker	H. 200	Dg	28.2	18	28	..	..	..	19.3	7- 3-53	S, ½	D, S	Supplies two homes.
15B1	Ralph Young	H. 230	Dr	185	6	185	near bottom	..	Sand and "muck"	R-10	..	J, ¾	D, S	Drilled thru "rock" from 30-50 ft. Well flowed several days initially. Supplies 3 families. Water yellowish, forms black scum when boiled. FT.

Table 1.--Records of representative wells in Lewis County, Washington--Con.

Well no.	Owner or tenant	Topography, Altitude (feet)	Type of well	Depth of well (feet)	Diameter of well (inches)	Depth of casing (feet)	Water-bearing Depth to top (feet)	Water-bearing Thickness (feet)	Character of material	Water level Below datum (feet)	Water level Date	Pump, type-H. P.	Use	Remarks
	T. 13 N., R. 3 W.--Con.													
15J1	Hubert Pillette	H, 420	Dr	57	6	52	42	15	Gravel, fine	R- 6	..	J. ½	D	Rapid recovery.
15M1	T. Sundberg	H, 450	Dg	10	..	0	..	..	Gravel	0	12-24-53	S. ¾	D, S	Report brown stain from water.
16J1	P. J. Bradford	H, 530	Dr	320	8	320	..	..	..	..	..	J. 7½	D	Yield greater than 22 gpm, FT.
17C1	Ray Morton	H, 515	Dg	18	30	18	..	..	Rock, black	R-16	Summer	S. ½	D	Well pumps dry in summer. Brown stain from water.
17L1	Lawrence Parypa	U, 630	Dg	32	--	0	..	..	Clay, yellow	R-20	Sept. 1953	S. (H)	D	Well dug entirely in yellow clay.
17Q1	Clarence Hauck	H, 650	Dg	4½	36 by 36	4½	..	..	Rock, gray	R- 1	..	S. ¾	D, S	Well fed by 3 springs.
18A1	G. A. Fleshman	U, 565	Dg	25	..	25	..	..	Gravel	R- 0	Winter	S. ½	D	Yellow clay overlies gravel.
20D1	William Henrich	U, 670	Dg	21	18	18	..	..	"Soapstone" red	R-16	Summer	S. ½	D	Well bottoms on "rock". Brown stain from water. Nearby spring supplies cattle.
21A1	S. H. Johnston	U, 650	Dg	50	36	7	..	..	Clay, yellow	R-35	12-21-53	J. ½	D, S	Well pumps dry.
21D1	J. A. Unterwegner	H, 725	Dg	27	48	27	19	8	Sand, yellow	R-19	1951	J. ½	D, S	Upper 19 ft is red clay. Report 48-ft dug well 1,000 ft north is in red clay above black sand, above very hard yellow clay.
21R1	P. B. John	U, 680	Dg	21	72 by 72	0	..	..	Clay	R-10	Dec. 1953	S. ¾	D, S	Water tastes "clayey" in fall.
21R2	.... do	H, 740	Dg	90	48 by 48	9	..	..	Rock	R-70	1937	N	NU	Supply adequate for house.
22E1	Page Bennett	U, 655	Dg	35.0	..	..	..	..	..	17.5	12-21-53	J. ½	D	Well pumps dry. Temp 51.
22N1	Carlo Ciolli	U, 675	Dg	27	..	27	..	..	..	R-19	Summer 1948	S	D, S	Report red stain from water.
22R1	Ralph Moerke	U, 634	Dg	40	48	..	..	..	Sand	..	..	J. ½	D	Dug thru layers of blue clay and sand.
24K1	Joe Ford	H, 200	Dr	60	8	..	25	35	Basalt	23.7	7- 3-53	T. 3	D, S	Basalt from near surface to bottom of well.
25B1	Clarence Olson	V, 190	Dg	12.7	66	..	..	..	Clay	4.7	12-29-53	S. ¼	D	Well goes dry in summer. Stock supplied by spring.

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Well no.	Owner or tenant	Topography, Altitude (feet)	Type of well	Depth of well (feet)	Diameter of well (inches)	Depth of casing (feet)	Water-bearing: Depth to top (feet)	Water-bearing: Thickness (feet)
	T. 13 N., R. 3 W.--Con.							
27B1	--Decroft	H, 565	Dg	23	..	0	..	..
27J1	William Karvia	U, 480	Dg	16.3	42	..	..	..
27K1	W. J. Schwarz	H, 530	Dg	28.0	72 by 72	0	..	..
27P1	Jake Skoff	H, 585	Dg,Dr	180	6	50	..	..
28H1	Russell Olsen	H, 700	Dr	135	6	60	..	..
30C1	A. and B. Kostick	V, 227	Dr	117½	6	117½	..	..
30E1	Ed Panush	V, 227	Dg	20.9	30	21	..	..
30E2	--Wilson	V, 228	Dg	19.8	30	21	21	..
30G1	Robert Davidson	V, 242	Dr	19	6	19	..	..
30P1	Harry Fenn	V, 239	Dr	212	6	30	165	..
30P2	..	V, 239	Dr	97	6	..	..	..
30Q1	Herb Robinette	V, 250	Dg	22.8	..	..	..	..
31B1	Walter Roundtree	V, 240	Dg	24	30	24	..	..

wells in Lewis County, Washington--Con.

Water-bearing zone(s): Character of material	Water level: Below datum (feet)	Water level: Date	Pump, type-H. P.	Use	Remarks
..	..	..	S	D	Supply usually adequate. Low in summer.
"Sandstone"	1.4	12-28-53	S, ½	D	Adequate supply. Water leaves black stain, rusts pipes badly. Has augered 54 ft thru variegated clay and coal to "quicksand" and ill-smelling water; petrified wood at 48 ft. FT.
Sand	13.0	..do..	B, (H)	D	Red clay overlies sand.
Clay, blue	R-80	..	P, 1	D, S	Bailed 4(?) gpm. Water leaves brown stain. FT.
Sand	R-50	1947	P, 1½	D, S	Drilled thru blue clay most of depth. Bailed 7 gpm. Yellow stain from water.
..	R-100	..	J, ½	D, S	Well bottoms in reddish-white clay. Bailed 6 gpm. Water has odd taste, sulphur odor. FT.
..	2.5	12-30-53	S, 1	D	Supplies 3 homes and store. Temp 52.
Gravel and sand	7.6	..do..	S, ½	D	Dug thru clay, "sandstone", gravel successively. Temp 53.
Clay	R-12	Summer	S, ½	D, S	Slow recovery. Brown stain from water.
Sand	R-10	1946	J, ½	D	Bailed 5 gpm. Water tastes alkaline, has rotten-egg odor and taste, blackens silverware. L, FT.
..	R- 5	1946	N	NU	Report water tastes and smells bad.
..	7.0	12-22-53	S, ½	D	Temp 49.
Clay, yellow	..	..	Sb, ½	D, S	Well bottoms in blue clay.

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	T. 13 N., R. 3 W.--Con.													
31D1	R. E. Lawlainen	V, 242	Dg	18	36	10	..	..	Shale, blue	R-14	Summer 1952	S, ¼	D	Well pumps dry in summer.
31E1	A. J. Rutherford	V, 242	Dg	30	36	9-10	10	20	"Sandstone", blue	..	..	J, ½	D	Clay(10 ft) overlies "sandstone". Water hard.
	T. 13 N., R. 4 W.													
1J1	Charles Detering	V, 220	Dr	65	6	..	..	..	..	R-10	Summer 1953	-, ½	D, S	Water hard. Iron stain from water.
3L1	C. Christin	V, 260	Dr	81	8	..	65	16	"Sandstone"	R-10	4-16-54	J, 1	D, S	Pumped 4½ hr at 11½ gpm, dd 36 ft. L, FT.
3N1	Wm. Tracy	V, 265	Dg	16	36	..	..	..	Clay	R- 8	August 1954	S, ½	D, S	Water soft.
4N1	E. Wooten	V, 273	Dr	60	6	40	..	..	"Sandstone"	R- 7	October 1951	S, ½	S	Report yield 25 gpm. Report coal from 35 to 39 ft.
6F1	L. J. Dokter	V, 285	Dr	56	6	56	..	..	..	R-14	..	J, ¾	D	Bailed 12½ gpm. Water hard, tastes of iron. Encountered cedar log at 46 ft in second drilled well. L.
7B1	Rainbow Falls State Park	V, 275	Dr	460	6	..	..	..	..	..	..	N	NU	Pumped 15 gpm. Water quality poor.
7D1	W. K. Miller	V, 283	Dg	14	48	14	11	3	Gravel	R- 8	August 1952	S, ½	D	Well bottoms on solid rock.
8C1	Mayne Perry	V, 278	Dg	25	30	25	24	1	. . . .do. . . .	R-13	August 1951	S, ½	D	Water soft. L.
9D1	W. W. Kiser	V, 270	Dg	9.0	36	..	..	..	..	2.4	8-11-54	S	D	Well pumps dry. Water soft.
11F1	William Tracy	H, 560	Dg	26	48	6	23	3	Gravel	R-20	August 1954	N	NU	Water soft.
13C1	James Greger	U, 680	Dg	20	..	..	..	..	..	..	..	..	D	. . . .Do. . . .
14C1	L. Charlson	U, 728	Dg	18	48	4	..	..	"Sandstone", yellow	..	..	S, ½	D	. . . .Do. . . .
23C1	F. Fitz	V, 227	Dg	20	36	..	..	..	Gravel	R-10	August 1954	S, ¼	D	"Sandy loam"(15-20 ft) overlies gravel. Water soft.
23J1	L. B. Spinning	V, 233	Dr	130	6	130	..	..	..	Flows	8-11-54	S	D	Supplies 2 homes. Water soft.
23L1	J. Hardy	H, 240	Dr	103	6	..	..	..	..	..	..	..	D	Water soft.

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	T. 13 N., R. 4 W.--Con.													
24A1	B. Gillaspie	T. 250	Dr	156	6	..	..	..	..	..	..	P. 3	D, C	Supplies service station.
24F1	C. A. Anderson	V. 223	Dg	20	48	..	..	..	Gravel	12.6	8- 6-54	S. ½	D, S	Water soft. FT.
24G1	T. W. Long	V. 225	Dg	25.3	38 by 38	11	18	4	Gravel, cemented	12.3	12-29-53	S. ½	D	Upper 18 ft is yellow clay. Temp 52.
24F1	Richard Smith	V. 235	Dr	66	6	..	..	..	..	R-14	July 1952	S. ½	D	Well pumps dry in summer.
25G1	G. A. Constant	V. 243	Dg	..	36	..	..	..	..	16?	12-29-52	S. ½	D, S	Report water level low in summer.
25H1	Frank Bamer	V. 230	Dr	53.4	6	30	..	..	Sand, black	11.0	12-30-53	J. ½	D, S	Drilled thru "bluestone" above black sand. Water hard, tastes flat, turns brown when bleach added. FT, Temp 50.
26Q1	T. E. Matheny	H. 640	Dg	24	36	24	..	..	"Sandstone"	Flows	Winter	G	D	Dug in clay and "sandstone. Well goes dry in summer. Water leaves brown stain. Water from 3 springs on property leaves brown stain.
31Q1	William Smith	H. 720	Dg	18.5	36	15	..	..	Clay	11.1	8- 5-54	S. 2½	D	Water soft.
33N1	T. Thorson	V. 360	Dg	16	48	..	14	2	Shale, blue	14.7	. .do. .	S. ¾	D	Gray shale 2-9 ft, blue shale 9-16 ft. Well pumps dry. Water soft.
35G1	Jim Fitz	V. 273	Dg	12	30	12	..	..	Clay	R- 4	..	S. ½	D	Report well "spring-fed".
36G1	Robert Battey	V. 241	Dg	14.2	24	15	9	1/6	Gravel	R- 7 4.8	Summer 12-30-53	S	D	Bottom 6 ft in "soapstone". Yield 4 gpm. Water leaves brown stain.
36G2	. . . . do	V. 241	Dr	326	6	..	..	..	..	R- 8	1938±	N	NU	Encountered salt water near bottom of well. Report high yield.
36P1	J. C. Ridenour	V. 246	Dg,Dr	100	24-4	22	..	..	Gravel	R-11	Summer 1953	P. ½	D, S	Drilled thru soft sandstone, blue clay, gravel, 1½ ft of "lime", and soft sandstone successively. Yield 4½ gpm. Rapid recovery. Water leaves strong brown stain.

Table 1.--Records of representative wells in Lewis County, Washington--Con.

Well no.	Owner or tenant	Topography, Altitude (feet)	Type of well	Depth of well (feet)	Diameter of well (inches)	Depth of casing (feet)	Water-bearing zone(s) Depth to top (feet)	Water-bearing zone(s) Thickness (feet)	Water level Character of material	Water level Below datum (feet)	Water level Date	Pump type-H. P.	Use	Remarks
	T. 13 N., R. 5 W.													
1A1	B. T. Carpenter	H, 375	Dg	22	20	22	..	..	Gravel	R-15	August 1954	S, ½	D	Water soft.
1K1	A. Hopkins	T, 335	Dr	72	7	..	..	..	Clay, blue	R-15	. . do . .	J, ½	D	Water hard.
1P1	Gene Raymond	V, 305	Dr	114	6	..	..	..	..	R-18	. . do . .	P, ½	D	Water soft.
1P2	H. B. Onn	V, 298	Dg	14	6	..	8	6	"Sandstone", blue	R- 7	. . do . .	S, ½	D	Water "rusty", has odor. FT.
2P1	Joe Wilson	V, 315	Dg	14.2	40	19½	11	2	Gravel	11.1	8-10-54	S, ½	D	Dug thru 4 ft topsoil, 15½ ft gravel.
3H1	Lester Merrill	T, 375	Dg	13.8	48 by 48	..	..	..	"Sandstone"	8.6	. .do. .	S, ¼	D	Well goes dry, late summer. Water soft.
3N1	Dan Morton	T, 390	Dr	136	6	86	..	..	..	55.1	. .do. .	J, 1	..	Adequate supply. FT.
9F1	A. Lusk	V, 345	Dg	12	48	..	..	..	..	1.1	. .do. .	S, ¼	D	Water soft.
10C1	Paul Ratkie	V, 325	Dr	110	6	58	..	..	"Sandstone", blue	R-15	Sept. 1952	J, ¼	D	Well drilled almost entirely in blue "sandstone". Bailed 3 gpm. Water soft, tastes of "iron".
11D1	E. Lusk	V, 322	Dr	97	6	..	..	..	"Sandstone"	..	..	J, 1	D	Well drilled 120 ft. Pumped 60 gpm. Water hard, has "iron" taste.
11M1	Jack Lusk	V, 325	Dr	180	6	..	..	..	Sand	19.7	8-11-54	P, ½	D	Water soft, has "soda" taste.
12B1	--Karboski	V, 290	Dg	12.0	24	..	..	..	..	3.6	. .do. .	S, ¼	D	Water soft.
15R1	W. F. Rhoades	V, 337	Dg	12	36	12	..	..	Gravel	..	..	S, ¼	D	Well pumps dry. Water hard.
23Q1	Leon Kowalski	V, 370	Dg	23.2	60	12	..	..	"Sandstone", blue	13.2	8-10-54	S, 2¾	D	Water soft.
26E1	John Kowalsky	V, 378	Dg	19	48	..	..	..	Gravel	R-14	August 1954	S, ¼	D, S	. . . . Do . . . .
26N1	--Dunlap	V, 290	Dr	400+	6	400+	..	..	..	..	..	..	..	Encountered wood at bottom of well.
27R1	C. E. Baxter	V, 385	Dg	13.4	48	..	3½	17½	Gravel, packed	3.4	4- 9-53	S, ¼ S, (H)	D	Gravel is marble-sized. Pumped 2 hr at 18 gpm, dd 2.4 ft. H.
28R1	Jasper Packer	H, 470	Dr	178	6	..	..	..	Clay, blue	..	..	N	NU	Encountered salt water and gas.

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Well no.	Owner or tenant	Topography, Altitude (feet)	Type of well	Depth of well (feet)	Diameter of well (inches)	Depth of casing (feet)	Water-bearing Depth to top (feet)	Water-bearing Thickness (feet)	Water-bearing zone(s)	Water level Character of material	Water level Below datum (feet)	Water level Date	Pump, type-H. P.	Use	Remarks
	T. 13 N., R. 5 W.--Con.														
33J1	Hugh Snelson	V, 425	Dg	21	36	21	..	..	..	..	R-15	..	S, ½	D	Pumps dry. Water soft, "rusty".
33J2	John Kaszycki	V, 425	Dr	270	6	250	..	..	..	..	..	..	Sb, 1½	D	Water salty; unfit for drinking and cooking. FT.
34J1	Al Bamer	H, 550	Dr	93	6	35	..	..	..	..	R-10	..	J, ¾	D, S	Water soft.
36E1	Pete Fabris	V, 425	Dg	29	30	..	..	..	Shale		R-26	April 1952	S, 1½	D	Well pumps dry. Water "rusty", hard.
36R1	Wm. Lapinsky	V, 460	Dg	20	30	20	..	..	..	..	..	..	S	D	Well pumps dry. Water soft.
	T. 13 N., R. 1 E.														
8E1	..	U, 730	Dg	26.5	48	4	..	..	..	..	20.5	9-16-53	N	NU	
9J1	..	U, 930	Dg	33.7	48 by 48	5	..	..	Clay		23.4	.. do. ..	J, ½	D	Well in yellow, red clay. Has never been pumped dry. FT, Temp 51.
13L1	Lloyd Morey	V, 682	Dg	24	6-30	20	..	..	..	..	R-19	..	S, ½	D	Pumps dry in 1½ hr. Slow recovery.
14A1	Donald Cole	V, 723	Dr	130	6	..	..	..	..	Clay, blue	..	..	J, ½	D	Water hard, leaves brown stain.
14C1	C. D. Lester	U, 875	Dg	37.9	..	..	..	..	..	..	27.7	9-10-53	J, ½	D	Well pumps dry. FT, Temp 52.
14E1	L. R. Temple	U, 855	Dr	325	6	276	118 270 325	.. 5 ..	..	Gravel Sand, gray, hard Gravel, fine	R-125	10- 8-53	Sb, 1	D, Irr	Bailed 20 gpm, dd 10 ft. L, FT.
14G1	Charles Ziegler	U, 845	Dr	110	6	110	105	5	..	Sand	R- 75	August 1953	Sb, ½	D	Drilled thru much clay. FT.
14H1	Mary Cole	V, 715	Dg	42.2	52 by 52	8	..	..	..	Gravel	28.4	9- 9-53	J	D	Well dry in fall, 1952. Temp 53.
14R1	Martin Jacobsen	V, 665	Dr	40	6	40	36	14	..	Sand, white	R-15-18	1946	J, ½	D, S	L.
15A2	Earl Cummings	U, 820	Dr	100(?)	6	..	..	..	..	..	..	..	J, ¾	D	FT.
15C1	Charles Ede	U, 805	Dg	32	..	..	..	..	..	..	..	..	S, ½	D	Water leaves brown stain; red in winter.
15H1	J. E. Uden	U, 815	Dg	22.8	..	..	..	..	..	..	14.5	9-10-53	S, ½	D	Well pumps dry. Temp 54.

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Well no.	Owner or tenant	Topography, Altitude (feet)	Type of well	Depth of well (feet)	Diameter of well (inches)	Depth of casing (feet)	Water-bearing zone(s) Depth to top (feet)	Water-bearing zone(s) Thickness (feet)	Character of material	Water level Below datum (feet)	Water level Date	Pump, type-H. P.	Use	Remarks
	T. 13 N., R. 1 E.--Con.													
16H1	Henry Miller	U, 784	Dg	26	..	4	..	..	Clay, gravelly	R-18	August 1953	S, ½	D, S	Slow recovery. Water leaves brown stain.
16H2	O. H. Glaze	U, 786	Dg	30	..	0	..	..	..	R-25	August 1952	S, ½	D	Adequate supply.
16K1	G. E. Jones	U, 766	Dr	129.1	8	129	..	..	Sand and clay	R-35	1950	J, ½	D, S	Adequate supply. FT.
16L1	Jesse Hawkins	U, 758	Dr	140	6	128	140	..	Sand, gray	41.1	9-10-53	..	D	Upper 140 ft red clay and gravel; some water at 70 ft. Bailed 10 gpm, dd 30 ft. FT.
17C1	W. D. Ginger	U, 764	Dg	45	36	..	32	13	Gravel, soft	R-20	..	S	D,Irr	Pumped 4 hr at 50 gpm, dd 2 ft.
17Q1	Robert Martin	U, 725	Dr	106	4	80	..	..	Clay(?), blue	..	..	J, ½	D, S	Entered blue clay at 100± ft. Water leaves brown stain.
17R1	Gordon Lundeen	U, 732	Dr	125	6	125	..	..	Gravel(?) black	R-12(?)	..	J, 1½	D, S	L, FT.
19K1	R. R. Szelap	U, 690	Dg	24.3	48 by 48	..	..	..	..	4.3	10-17-52	S, (W)	NU	FT, Temp 54.
19K2	.... do	U, 690	Dr	182	10-6	182	102 123	18 59	"Sandrock", blue Gravel and sand	R-128	5- 2-52	T, 7½	S,Irr	Pumped 4 hr at 80 gpm, dd 20 ft. L, A, Temp 50.
19P1	Albert Duvalko	U, 665	Dg	48	40	8	..	..	Gravel, weathered	R- 30 3.7	Summer 1952 4-28-53	J, ½	D	Well cased from 0 to 8 and 28 to 48 ft.
20F1	M. F. Clark	U, 705	Dg	19.4	38 by 38	4	..	..	Clay	16.4	9-11-53	S, ¾	D, S	Report water has taste and odor, leaves brown stain.
20F2	.... do	U, 695	Dr	405	..	234	..	..	Sand	R-148	8-15-55	..	Irr	Pumped 120 gpm, dd 27 ft, pumps fine sand. L. FT.
21C1	W. C. Matkin	U, 750	Dg	35.6	..	4	..	..	Gravel	17.9	9-11-53	J, ½	D	Well dug in clay, some gravel; bottoms in blue clay. Some iron in water. FT, Temp 52.
21D1	Harry Fleener	U, 725	Dg	36	..	8	..	..	"Mud", white	R- 25	August 1953	..	D	Pumps dry in fall. Water leaves brown stain.
22D1	William Dluhosh	U, 810	Dg	32	48	7-8	..	..	Clay	..	..	J, ¾	D, S	Water leaves brown stain.
22G1	C. A. Carson	U, 840	Dg	32.6	..	0	..	..	.... do	26.8	9-11-53	J, ½	D	Well dry July-Sept. 1952. FT, Temp 52.

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	T. 13 N., R. 1 E.--Con.													
22R1	G. E. Greene	V, 600	Dr	150	8	150(?)	150	..	Sand, gray	Flowed	6-22-53	..	De	Originally flowed 200-225 gpm. Pumped sand. Yield dropped. L
22R2	. . . .do. . . .	V, 600	Dr	149	8	113	120 145	2 5	Sand, blue Sand, blue	R+25½ +17	Jan. 1954 5-27-54	..	Irr	Pumped 130 gpm, dd 23 ft. Water occasionally smells and tastes of sulphur. L, FT. Temp 49.
22B3	George Hypes	V, 602	Dg	10.9	..	0	..	..	Gravel	5.2	9-15-53	S, (H)	D	Water has "rusty" color.
23B1	H. L. Lindeman	V, 652	Dg	6.4	24	7	..	..	. . . .do. . . .	3.3	. .do. .	S, ½	D	Brown stain from water. FT.
23F1	Carl Aronson	V, 633	Dr	32	6	32	..	..	Sand	R-17	1948	P, ¾	D	. . . . Do . . . .
25K1	George Reimann	U,1042	Dg	36.3	48	12	..	..	Clay, "rocky", yellow	30.8	9-11-53	J, ½	D, S	Plenty of water. Heavy brown stain from water. Has 3 permanent springs 120± ft lower than house. FT, Temp 54.
26M1	A. Jorgenson	V, 602	Dg	15.5	48	6-8	..	..	Gravel and clay	10.6	. .do. .	S, ¾	D	Well dug in yellow clay, rocks, some gravel.
26Q1	--Clowe	H, 695	Dg	23	..	0	..	..	..	..	..	S, ½	D, S	
26R1	Wiley Rhodes	U, 960	Dg	38	..	..	..	..	..	Dry	7-27-55	N	NU	L.
27A1	L. C. Tryon	V, 593	Dg	16	21	16	..	..	Gravel	..	..	S, ½	D	Adequate supply.
27G1	Edith Berg	V, 580	Dg-Bd	27	..	27	..	..	. . . .do. . . .	..	..	S	D	Dug 20 ft, bored 7 ft.
27J1	H. L. Thayer	V, 602	Dg	20.9	60 by 60	5	..	..	. . . .do. . . .	13.8	9-15-53	S, ¾	D	Temp 52.
27M1	Louis Martin	V, 576	Dr	90	6	..	..	..	..	R-20	1948	J, ½	D	Adequate supply.
28C1	Chester Fickett	V, 558	Dr	36.8	6	..	..	..	Sand, black	20.5	9-15-53	S, ¾	D, S	Water leaves "rusty" stain. FT, Temp 52.
28N1	Delmar Woods	V, 518	Dr	97	6	30	..	..	Gravel	Flows	. .do. .	J, ½	D, S	FT.
28P1	P. E. Pelongia	V, 545	Dr	37.5	6	32	..	..	. . . .do. . . .	..	..	J, ¾	C	Supply usually adequate. Supplies service station.
30C1	Palo Tade	U, 680	Dr	156	6	156	..	..	..	R-110	August 1952	J	D, S	Adequate supply.
30C2	. . . .do. . . .	U, 710	Dr	208	8	200	130	65	Gravel, boulders	R-90	June 1954	T, 7½	Irr	Pumped 110 gpm; dd 80 ft. L.

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	T. 13 N., R. 1 E.--Con.													
30D1	Charles Dorn	U, 645	Dr	108	6	108	107	1	Gravel	R-21½	1943	J, 1	D	Drilled thru sand from 70 to 107 ft. Pumped 7½ gpm. FT
31P1	D. C. Jensen	V, 470	Dr	128	6	90	123	5	Sand, blue, gray	Flows	8-27-54	J, 1	Ind	Yield 3 gpm. Supplies poultry processing plant. L, FT, Temp 50.
31Q1	G. J. Orning	V, 476	Dg	17.0	21	18	..	..	Gravel	11.5	9-16-53	S, ½	D	Rapid recovery. Brown stain from water. Temp 51.
32B1	C. A. Jorgensen	V, 505	Dr	130	6	122	122	8(?)	Sand	Flows	7- 8-55	N	D	Report flow 3 gpm. L, FT, Temp 50.
32C1	Orval Day and Ralph Sawyer	V, 500	Dr	52	6	52(?)	52	..	Gravel, fine	5.6	3-18-53	J, ½	D	Supplies 2 homes. Use two pumps. L, H, FT.
** 32F1	Charles Hendrickson	V, 490	Dr	110±	8	37(?)	..	..	* ..	Flowed	1931	..	De	Known as "Old Town Well". Fair yield until earthquake in 1939. Condemned in 1939.
32M1	Dick Loe	V, 485	Dr	25	8(?)	13±	..	..	..	R-20	..	S, ½	D	Brown stain from water.
32M2	Ed Guiberson (Insert)	V, 485	Dr	210	6	108	125	1-3	Sand, fine(?)	Flows	8-17-55	S, ½	D	Bailed 20 gpm, dd 70 ft. L, FT.
33A1	W. E. Woods	V, 559	Dr	125	8(?)	65	..	..	* Clay, blue	Flows	..	J	D, S	Lower 50 ft of well in blue clay. Irrigates from river. FT.
34B1	A. O. Nichols	V, 581	Dg	25	..	4	..	..	Gravel	..	..	S, 1	D	FT
35F1	--Christensen	U, 807	Dr	119	6	119	..	..	.. .. do	R-99	..	P, ¾	D	Supplies two houses. FT.
35F2	J. F. Simpson	U, 807	Dr	113.9	6	114	102	18	Gravel, cemented	101.6	8- 9-55	J, ½	D	L.
	T. 13 N., R. 2 E.													
8P1	Paul McLaughlin	H, 1045	Dg	22	48	..	..	..	Clay, brown	R-12	..	S, (H)	D	Dug thru rock and clay mostly.
14Q1	Tom Harper	T, 960	Dg	32.1	60	..	..	..	Sand and gravel	17.0	8-19-54	S, ½	D	FT.
15J1	L. W. McClellan	T, 930	Dg	20	36	20	..	..	..	R-12	Summer 1954	S, ¾	D	Adequate supply. Water hard.
**28Q1	Charles Hendrickson	V, 490	Dr	110±	8	35(?)	..	..	..	Flowed	1931	..	De	Known as "old town Well". Fair yield until earthquake in 1939. Condemned in 1939.

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	T. 13 N., R. 2 E.--Con.													
15P1	C. A. Linn	T, 880	Dr	40	6	40	..	..	Sand	5.4	8-18-54	J. ½	D	Report yield 90 gpm.
15Q1	Loanne Burden	T, 890	Dg	20.8	36	..	..	..	Gravel, cemented	6.7	. .do. .	S	D	Water hard.
16N1	Homan Kloepper	T, 795	Dr	100	6	..	..	..	Rock	R-40	Nov. 1952	J. 1½	S	Adequate supply. Water soft.
16P1	Bill Core	T, 805	Dg	12	48	4	..	..	Gravel	8.9	8-18-54	S.	D	Well pumps dry. Water soft.
17J1	E. S. Katyryniuk	V, 802	Dg	52	6	..	..	..	Gravel, fine	R-12	Sept. 1952	J	D	Adequate supply. Water soft.
17K1	Frank Kulas	V, 790	Dg	26.7	36	8	16	10	Gravel, cemented	14.7	8-18-54	S. ½	D, S	Clay 6-16 ft. Well pumps dry in fall.
18K1	John Courtney	V, 725	Dg	14.1	50	10	..	..	..	5.1	. .do. .	S. ½	D	Adequate supply. Water soft.
18L1	..	V, 728	Dg	17.0	36 by 36	..	..	..	..	11.0	9-10-54	..	Da	Well had hand pump. Well destroyed Oct. 1954. H.
18M1	--Arnold	V, 711	Dg	27.4	36	30	..	..	Gravel	14.0	8-18-54	S. ½	D	Adequate supply. Water soft.
20M1	--Logan	U, 1090	Dg	27.6	48	3	..	..	.. ..	25.1	9-17-53	B. (H)	D	Hard brown (till?) encountered when well dug. FT. Temp 49.
22A1	Cinebar Grange	T, 910	Dg	..	..	..	..	..	..	21.5	9-22-53	S. ½	Inst	H. , Temp 47.
22A2	E. Girard	T, 890	Dr	65	6	65	..	..	..	..	..	J. 1	D	Water hard.
22N1	Frank Townsend	T, 790	Dg	13	8	..	12	1	Gravel	R-12	..	S. ½	D	Adequate supply.
23E1	Melvin Phillips	T, 865	Dg	12	36	12	..	..	Clay, yellow	..	..	S	D, S	Water soft, supply limited.
26D1	Karl Wilke	T, 808	Dr	53	6	53	..	..	Gravel	..	..	J. ½	D, S	Water soft.
26E1	H. E. Justice	T, 804	Dg	26.0	48	10	..	..	. . . .do. . . .	19.4	8-18-54	B. (H)	D	Goes dry in dry summers. Water soft.
28P1	Chester Madden	T, 728	Dr	60	6	50	..	..	Gravel (?)	..	..	J. ½	D, S	Water soft.
30D1	Frank Foland	U, 1081	Dg	30	36	10	..	..	Clay	R-20	..	S. ½	D	Well pumps dry.
34N1	W. F. Faas	T, 670	Dg	30	30	30	..	..	Gravel	R-18	..	S. ½	D	Adequate supply.
34N2	. . . .do. . . .	T, 670	Dr	90	6	82	..	..	Gravel, cemented	R-25	April 1954	J. ¾	S	Adequate supply. FT.

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	T. 13 N., R. 4 E.--Con.													
25R1	H. G. Anderson	V, 1030	Dr	34	6	34(?)	..	..	Gravel	R-12	August 1946	J. ½	D	Report high yield. Water smells of sulphur.
33R1	H. M. Justice	T, 920	Dg	31.0	18	..	16½	13½	Sand and gravel	13.5	3-18-53	B. (H)	D	Adequate supply. L.
34L1	Herbert Cooper	H, 985	Dr	75	8	75	..	..	Gravel	..	..	J. ½	D	Drilled thru much pumice. Water hard, sometimes "rusty".
34M1	Harold Johnson	T, 925	Dg	28	36	..	..	..	..	..	..	S. ½	D	Water hard.
34P1	Janet Schoonover	T, 935	Dr	77	6	..	..	..	Sand, black	13.6	8-27-54	J. 1	D	Water "rusty".
	T. 13 N., R. 5 E.													
19G1	Elmer Rouner	V, 1080	Dr	198	6	0	30	..	Sand	..	..	N	NU	Encountered coal, gas, etc. 80-194 ft, bedrock 194-198 ft. Water brown, brackish.
	T. 14 N., R. 1 W.													
3K1	Homer Johnston	H, 340	Dr	1500±	4	1500+(?)	..	..	..	R-22	6-24-54	N	D	Water hard.
7N1	Matt Beck	H, 240	Dr	125	4	85	119	26	Soft sandstone	R-15	Sept. 1930	N	NU	Drilled thru coal from 30 to 40 ft; in soft, calcareous sandstone at 119 ft. Well formerly used for house and stock. L.
34P1	..	U, 624	Dg	31.1	30	8	..	..	..	9.9	4-16-53	S. ⅓	..	Well in yellow-brown clay and weathered gravel.
36N1	Ed Pfirter	V, 395	Dg	20.6	36	20.6	..	..	Gravel, fine	2.7	4-15-53	S. ½	S	Well bottoms on hard blue clay. Iron in water. Water "milky" since earthquake.
	T. 14 N., R. 2 W.													
1P1	Franklin Kopp	V, 210	Dg	26	2-30(?)	26	..	..	..	R-16	..	S. ½	D, S	Casing 2-in to 20 ft, 30-in from 20 to 26 ft. Water soft.
2M1	L. R. Chapman	H, 300	Dg	33	48	33	..	..	Clay, rust-red	R-29	1940	N	De	Red clay and bits of "coal" entire depth. Iron in water. Well destroyed in 1940.
2R1	..	H, 200	Dg	46.3	42	2	..	..	..	3.4	4-10-53	N	NU	Well partially filled with debris.

Table 1.--Records of representative wells in Lewis County, Washington--Con.

Well no.	Owner or tenant	Topography, Altitude (feet)	Type of well	Depth of well (feet)	Diameter of well (inches)	Depth of casing (feet)	Water-bearing zone(s)		Water level		Pump, type- H. P.	Use	Remarks
							Depth to top (feet)	Thickness (feet)	Character of material	Below datum (feet)	Date			
	T. 14 N., R. 2 W.--Con.													
3M1	Wendell Schroeder	H. 320	Dg	15.3	48	0	..	..	..	1.3	. .do. .	N	NU	FT. Temp 46.
3M1	John Selak	V. 190	Dg	15	32	15	..	..	Sand	..	..	S. ½	D	Well supplements supply from nearby spring. Encountered white sand 2 ft below surface in dug well 15 ft lower than well 3M1.
3N1	F. H. Jones	U. 410	Dg.Dr	70	2½-2	55	55	15	Shale, clayey	..	..	P. ½	D	Well drilled in 12-ft dug well. Blue, clayey shale from 55 to 70 ft. Supply inadequate. FT.
3N2	A. T. Allen	H. 240	Dr	15.3	4	0	35	..	..	0.3	4-10-53	N	NU	Shot hole for seismic traverse, originally drilled 70 ft by Standard Oil Co. Encountered blue clay and siltstone.
3N3	. . . . do	H. 280	Dg	7.0	54	7	..	..	..	3.5	. .do. .	N	NU	
3N4	. . . . do	H. 240	Dr	39	6	39	..	..	..	23.6	. .do. .	J. ½	D	Well drilled 41 ft into blue clay at 41 ft, pulled back to 39 ft. Iron in water. FT.
4B1	H. J. Koskela	H. 320	Dg	19.9	30	..	..	..	..	14.8	4- 9-53	N	NU	Report good yield.
4B2	John Daniels	H. 320	Dg	9.7	24-48	10	..	..	..	3.4	. .do. .	S. ½	D. S	FT. Temp 45.
4E1	Northern Pacific Ry. Co.	V. 190	Dr	63	26-16	57	11	45	Gravel and sand	11.9	10-24-38	T.25	RR	Formerly City of Centralia Well #1. Pumped 4+ hrs at 400 gpm, dd 12 ft. L. H. A.
4N1	Centralia Lumber Mill	V. 190	Dr	40	6	40	..	..	Gravel	12.6	4- 9-53	S. 1	Ind	Supplies mill pond from May-Sept.
4P1	City of Centralia	V. 200	Dr	1003	..	..	..	..	..	..	..	N	De	Test well for City of Centralia. L.
4R1	Charles Hadley	V. 410	Dg.Dr	70+	4	70	..	..	..	29.2	2-26-53	J. ½	D	Well drilled inside 30-ft dug well. Blue clay and sand near bottom of well. Inadequate supply.
4R2	Walter Swearingen	V. 415	Dg	20.1	50-40	3	..	..	..	13.1	. .do. .	N	NU	Well dug in hard yellow-brown formation. Reports fairly constant water level. FT.

Table 1.--Records of representative wells in Lewis County, Washington--Con.

Well no.	Owner or tenant	Topography, Altitude (feet)	Type of well	Depth of well (feet)	Diameter of well (inches)	Depth of casing (feet)	Water-bearing: Depth to top (feet)	Water-bearing: Thickness (feet)	Source(s): Character of material	Water level: Below datum (feet)	Water level: Date	Pump, type-H. P.	Use	Remarks
	T. 14 N., R. 2 W.--Con.													
5A1	LeRoy Westgard	V. 185	Dr	37	6	37	..	..	Gravel	15.7	4- 9-53	S. ¾	D	Sand overlies gravel. Water hard.
5B1	P. C. Bishop	V. 185	Dr	41.4	6	42	..	..	Sand(?)	11.7	4- 8-53	J. 1	D	Former 25-ft drilled well pumped dry frequently in summer and fall. FT.
5B2	Leo Schrader	V. 185	Dr	39.2	6	39.2	..	..	..	7.6	.. do. .	S. ½	S	Adequate supply.
5B3	David Jenkins	V. 185	Dr	50	6	50	..	..	Gravel(?)	..	..	J. 1	D	Supplies two homes. FT.
5C1	H. A. Verme	V. 185	Dg	14.2	18	14.2	10	4	..	6.9	4- 8-53	N	NU	Supply inadequate for watering lawn.
5C2	Bert Sumner	V. 185	Dr	33.9	8	33.9	..	..	..	6.0	4- 9-53	S. ½	D	Encountered water at 13 and 30 ft. Temp 49.
5D1	Carl Vassmar	V. 185	Dg	13.3	30 by 42	13.3	..	..	..	4.9	4- 8-53	S. ½	D	Iron in water. FT.
5D2	Mrs. Flora Watson	V. 185	Dg,Dn	40	2½	40	..	..	Gravel(?)	R- 6	..	S. ¼	D	Well bottoms on "hardpan".
5F1	City of Centralia Well #4	V. 185	Dr	93	26-16	90	15	75	Gravel	R-15	June 1935	T. 75	PS	Pumped 794 gpm, dd 28 ft. L.A.
5G1	City of Centralia Well #3	V. 185	Dr	95	26-16	84	47	33	Gravel and sand	R-13	April 1935	T.150	NU	Pumped 565 gpm. dd 39 ft. Condemned for public supply.L.
5G2	City of Centralia Well #5	V. 185	Dr	88	26-16	88	15	73	Gravel	R-15	July 1935	T. 50	PS	Pumped 12 hr at 880 gpm, dd 18 ft. L.
5H1	City of Centralia Well #2	V. 185	Dr	72	26-16	68	11	54	Gravel and sand	R-11	Feb. 1934	T. 60	PS	Pumped 803 gpm, dd 34 ft. L. A.
6A1	E. C. Hightower	V. 175	Dg	23	36	23	..	..	..	..	..	S	D	Report iron and magnesium in water.
6B2	L. E. Jensen	V. 170	Dr	39.9	6	40	..	..	..	15.7	. .do. .	F	NU	Well previously used for irrigation purpose.
6C1	C. N. Smith	V. 173	Dr	50	6	44	..	..	Gravel, fine	R-23	Summer 1952	J. 1	Irr	Driller estimated yield as 60 gpm.
6D1	George Hense	V. 173	Dr	43	6	43	..	..	Gravel, coarse	R-30	Oct. 1952	J. ¾	D	Water soft. Yield 17 gpm.
6D2	Clifford Norris	V. 174	Dr	47	6	47	..	..	Gravel	R-27 16.8	Summer 1952 4 -3 53	T. 5	D. Irr	Deepened from 27 ft in summer, 1952. Report high yield.

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Well no.	Owner or tenant	Topography, Altitude (feet)	Type of well	Depth of well (feet)	Diameter of well (inches)	Depth of casing (feet)	Water-bearing: Depth to top (feet)	Water-bearing: Thickness (feet)	Source(s): Character of material	Water level: Below datum (feet)	Water level: Date	Pump type-H. P.	Use	Remarks
	T. 14 N., R. 2 W.--Con.													
6D3	L. R. Price	V, 174	Dr	42.8	6	42.8	..	..	..	17.6	4- 3-53	J, 1	D	Supplies 3 cabins.
6D4	..	V, 170	Dr	42.7	6	..	..	..	..	15.3	.. do. ..	P, ½	D	
6D5	C. Tibbs	V, 172	Dr	42	6	42	..	..	Gravel	R-20	1952	P, ½	D	Water soft.
6E2	Mountain View Cemetery Assoc.	V, 170	Dr	51	8	51	24	27	Sand and gravel	R-24½	..	10	Irr	Topsoil (2 ft) overlies sand, gravel, boulders. Pumped 4 hr at 90 gpm.
6F1	Dr. L. E. Johnston	V, 169	Dr	60	8	60	48	12	Gravel	R- 17	..	T, 5	Irr	"Hardpan" from 47-48 ft. Pumped 100 gpm for 24 hr.
6F3	Mrs. Clarence Lundeen	V, 169	Dr	60	6	..	..	..	..	..	..	J, ½	D	Neighbor reports 135-ft well, under house. FT
6F4	E. P. Tripp	V, 169	Dr	50	6	50	..	..	Sand and gravel	..	..	..	D, Irr	Topsoil (4 ft) overlies clay, sand, gravel, boulders.
6H1	J. W. Richter	V, 171	Dr	28.3	8	28.3	..	..	..	10.2	4- 3-53	S, ½	D, S	Adequate supply.
6H2	..	V, 172	Dr	54.8	6	54.8	..	..	..	17.1	4- 8-53	N	NU	Temp 49.
6H3	Ed Ringel, Sr.	V, 168	Dr	51	6	51	46	5	Gravel	12.5	.. do. ..	J, 1	Irr	Well in cemented gravel from 30-46 ft. Pumped 20 gpm for 4 hr. dd 27 ft.
6J1	M. F. Folsom	V, 172	Bd	26.0	8	26.0	..	..	.. do. ..	14.0	.. do. ..	C, 5	..	Supplies greenhouse. Inadequate supply.
6J2	.. do. ..	V, 172	Bd	30	8	30	..	..	.. do. ..	..	..	N	NU	Formerly supplied greenhouse. Inadequate supply.
6K1	C. E. Moore	V, 172	Dn	31.0	2	31.0	..	..	..	16.4	4- 3-53	..	..	
6L1	H. C. Faires	V, 169	Dr	42	6	42	..	..	..	..	..	J, ¼	D	Reports well has never been pumped dry.
6L2	D. J. Deter	V, 169	Dr	50	6	46	47	3	Gravel	R-25	Sept. 1952	J, ½	D, S	Gravel graded from fine at 47 ft to coarse at 50 ft. Report bailing 15 min. "didn't lower water level an inch." Water hard
6L3	Keith Reichert	V, 169	Dr	45	6	45	..	..	.. do. ..	17.1	3-20-53	J, ½	D	Well went dry in July 1952 when 37 ft deep. FT.

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	T. 14 N., R. 2 W.--Con.													
6L4	Charlie Basom	V, 169	Dn	29	1½	29	..	..	Gravel, coarse	R-20 R-14	Summer April 1953	S, ¾	D, S	
6L5	J. E. Larson	V, 169	Dr	32.2	6	32.2	..	..	..	15.4	4- 2-53	S, ½	D	Adequate supply.
6L6	W. M. Stanton	V, 169	Dr	53	6	..	..	..	..	..	..	C, 2	D, S	Owner reports water "rusty".
6M1	Dean Scott	V, 169	Dr	45.7	6	45.7	..	..	..	15.3	4- 1-53	J, ½	D	Report well has never been pumped dry.
6M2	Lawrence Weinke	V, 169	Dr	33.4	6	33.4	..	..	..	15.8	. .do. .	S, ½	D	Well originally drilled 90 ft. Black "clay" (no water) from 60-90 ft. Iron in water. FT. Temp 52.
6M3	E. E. Siemers	V, 169	Dr	48	6	48	38	10	Gravel	R-22	Dec. 1952	J, 1½	D, S	Bailed 30 gpm, dd 2 ft. Casing perforated from 38-48 ft.
6M4	. . . . do	V, 169	Dr	49	6	49	..	..	Gravel, coarse	15.4	4- 1-53	P, ¾	D	Bailed 20 gpm, dd less than 1 ft.
6M5	William Enoch	V, 169	Dr	38	6	38	..	..	Gravel	R-22	1949	J, ½	D, S	Report "hardpan" overlies gravel.
6M6	T. L. McLaughlin	V, 169	Dn	32	2	32	..	..	. . . .do. . . .	R-12	..	S	D	Adequate supply.
6M7	M. J. Loop	V, 169	Dr	35.7	6	35.7	..	..	Gravel, some sand	18.5	4- 2-53	J, ½	D	Report pumping 15 min with present pump lowers water level 18 ft.
6M8	W. C. Robinson	V, 169	Dr	40	6	40	..	..	Gravel and sand	R-10	..	..	D	Report 11 ft of water in well during fall. Iron in water.
6M9	John Deach	V, 169	Dr	41	6	41	..	..	Gravel	..	..	J, ½	D	Adequate supply. FT.
6M11	J. C. Bronaugh	V, 169	Dn	38	2	38	..	..	..	15.2	4- 7-53	P, ¼	D	Report well has never been pumped dry.
6M12	Otis Scott	V, 169	Dr	31.0	6	31.0	..	..	..	15.9	. .do. .	J, 1	D	FT.
6M13	R. J. Reichert	V, 169	Dr	40	6	40	..	..	Gravel	R-27 17.8	Fall 1952 4- 7-53	P, 1	D, Ind	Well deepened from 28 ft in Sept. 1951. Report dd when bailed. Supplies 2 homes, slaughterhouse. Iron in water. FT.

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	T. 14 N., R. 2 W.--Con.													
6M14	William Westley	V, 169	Dr	47	6	47	..	..	Gravel	19.0	4- 7-53	J, ½	D	Report well never pumped dry. Temp 52.
6M15	Chester Kohnke	V, 169	Dr	37.8	6	37.8	..	..	....do....	17.5	..do..	..	..	Temp 51.
6N1	R. V. Grainger	V, 162	Dr	56	6	56	12	44	Gravel and sand	R-12	6- 6-51	T, 3	Irr	Pumped 4 hr at 45 gpm, dd 3 ft. L.
7B1	Peter Black	V, 155	Dg	13	6	13	9	4	Gravel	R- 9½	..	N	De	Dug thru 9 ft of silty loam above gravel. Supply adequate. Well now under lake.
7C1	G. C. Lovercheck	V, 155	Dn	22	1¼	22	..	..	....do....	R- 8	..	S, ½	D,S	Adequate supply.
7C2	Bert Hartman	V, 163	Dr	51	8	51	45	6	....do....	R-30	July 1952	J	D	Reports driller bailed 20 gpm with "practically no dd". Water soft.
7D1	W. L. Wooster	V, 164	Dr	25(?)	6	25	..	..	..	16.2	4- 2-53	S, ½	D, S	Well has supplied one sprinkler 4-5 days continuously.
7E1	Vernon Treat	V, 180	Dr	100	6	100	..	..	..	15.6	3-20-53	J, ½	D	Report water has "mineral" taste, leaves rust stain on white enamel.
7E2	E. Dodds	V, 167	Dg	21.7	48	21.7	..	..	Gravel (?)	3.6	4- 1-53	S, ¼	D	Clay overlies gravel. Report "mineral" taste in water.
7F1	A. S. Galbraith	V, 180	Dr	52.9	6	53	29	24	Sand (?)	29.2	5-17-47	..	..	
7F2	R. A. Galbraith	V, 180	Dr	52	6	52	27	25	....do....	27.0	..do..	J, ½	D	Iron in water. FT.
7F3	Harry Keller	V, 180	Dr	56	8	56	..	..	Gravel, fine	24.7	4- 8-53	J, 1	D, S	Well bottoms on gravel "hardpan". Encountered some water at 26 ft, pumps sand. Much iron in water. Water has "iron taste. FT.
7F4	Ray Day	V, 180	Dr	65	6	61	..	..	..	..	..	J, ½(?)	D	Report well never has been pumped dry.
7G1	L. A. Davis	V, 165	Dg-Dn	27	1½	27	..	..	..	..	..	S, ¼	D	Water hard.
7G2	P. H. Ross	V, 165	Dn	20	1½	20	..	..	..	..	..	S	D, S	Owner has never pumped well dry.

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	T. 14 N., R. 2 W.--Con.													
7G3	Mike Nick	V, 165	Dr	32	6	32	..	..	Gravel	R-15	1950	J, ¾	D, S	Sand overlies gravel. Well supplies two homes. Water hard.
7K2	W. M. Zurfluh	V, 182	Dr	67	6	67	..	..	Gravel	R-32	..	J, 1	D, S	Report high yield. Iron in water.
7K3	Simon Street	V, 180	Dg-Dn	21.7	36-8	..	..	..	..	11.1	3-20-53	S, ¼	D, S	Owner has never pumped well dry.
7L1	K. H. Verd	V, 167	Dr	84.5	6	65	45	42	Sand (?)	R-20	..	J, 1	D, S	Limited supply (originally 10 gpm). Water hard. L.
7L2	. . . .do. . . .	V, 180	Dg	26.2	27	26.2	..	..	..	1.4	4- 1-53	S, ¼	D	Well 70 ft NW of well 7M1. Inadequate supply. FT.
7M2	H. H. White	V, 180	Dr	75	6	75	..	..	Gravel	24.3	3-20-53	J, ½	D	Adequate supply. FT.
7M3	Frank Stajduhar	V, 165	Dg	11.5	32	11.5	..	..	..	4.7	..	S, ¼	D	Report well never has been pumped dry. FT.
7N1	J. F. Pape	V, 200	Dg	33.7	18	..	..	..	..	24.6	3-19-53	J, ¼	D	Adequate supply. FT
7N2	. . . .do. . . .	V, 180	Dg	13.0	50	3+	..	..	..	2.1	. .do. .	S, (H)	NU	
7P1	H. E. Ward	V, 175	Dg	24.4	40	24.4	..	..	..	7.0	. .do. .	N	NU	FT
7P2	D. A. Smith	V, 180	Dg	31.7	24	31.7	..	..	..	12.6	. .do. .	S, ¼	D, S	Supply limited in summer.
7Q1	George Finni	V, 180	Dr	67.5	6	67.5	60	7	Gravel	26.9	. .do. .	J, ½	D	Report little dd when well in use. Iron in water. L. FT.
7R1	Marguerite Humphreys	V, 180	Dr	64	6	64	..	..	Sand and gravel	10.3	3-17-53	..	Irr	Well about 75 ft NE of well 7R2.
7R2	. . . . do	V, 180	Dn	32	1½	32	..	..	..	..	..	P, ¼	D, S	Adequate supply. Water soft.
7R3	Frank Gregg	V, 180	Dr	35	6	..	25	10	Gravel, cobbles and boulders	..	..	N	De	"Hardpan" from 24-25 ft.
8N1	Joseph Bieker	V, 180	Dg	22	30	22	7	15	Sand	R-16	Sept. 1950	..	D, S	Adequate supply.

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	T. 14 N., R. 2 W.--Con.													
8N2	C. H. Cobb	V, 180	Dr	56	6	56	40	16	Sand, coarse	R-15	Sept. 1948	J, 1	D	Encountered some water at 26 ft. Water hard.
8N3	F. G. Fortier	V, 180	Dg	20	30	20	..	..	Sand	9.9	3-18-53	S, ½	D	Reports well in sand entire depth except for cobbles from 18-19 ft.
8N4	. . . .do. . . .	V, 180	Dr	32	8	32	32	..	Gravel	9.8	. .do. .	S, ½	NU	Well 15 ft west of well 8N3.
8N5	W. E. Thompson	V, 180	Dr	47.3	6	47.3	..	..	Sand, coarse	9.7	. .do. .	J	S	Report very little dd when well in use. Water hard.
9H1	Mrs. H.M. Baxter	U, 530	Dg	41.6	24	41.6	..	..	..	37	2-26-53	J, ¼	D	Rapid recovery. Reports water level never very high. Occasional brackish taste in summer.
9H2	Harold Hipes	U, 510	Dg	32.5	60	0	..	..	..	R-27	July 1951	N	NU	Encountered hard gray clay at 26 ft.
9H3	Mrs. S. Glasman	U, 500	Dg	18.0	60-50	6.5	..	..	..	14.2	2-26-53	S, ½	D	Report well never has been pumped dry. FT, Temp 49.
9J1	Howard Miskey	H, 510	Dg	7.5	60	2	..	..	..	2.0	. .do. .	S, ½	D, S	Rapid recovery. Water soft, rust colored.
9J2	A. S. Kresky	U, 520	Dg	39.3	36	39.3	..	..	..	32.7	. .do. .	J, ½	D	Well bottoms on "hard rock" formation. Water enters well from on top of solid formation. Supply inadequate. Water soft.
9K1	. . . .do. . . .	U, 490	J	150	2	150	..	..	..	R-dry	1935	N	NU	Lost water when well drilled through "solid rock" formation.
9Q1	Eugene Holit	H, 530	Dg	18.2	48	4	15	1	Shale(?) soft	14.5	2-26-53	..	D	Well in clayey shale from 10 ft on, becoming hard below 16 ft. Slow recovery.
10F1	--J. E. Smith	U, 510	Dr	14.1	12(?)	0	..	..	..	8.7	2-21-53	N	NU	Reports well originally drilled to 50 ft.
10L1	. . . .do. . . .	U, 525	Dg	14	96-60	14	..	..	Clay	2.9	. .do. .	S, ½	D, S	Slow recovery. FT, Temp 49.

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	T. 14 N., R. 2 W.--Con.													
10N1	Spencer Harmon	U, 510	Dg	47.3	48	3.5	..	..	..	R-37½ 28.5	August 1952 2-26-53	J, ¼	D, S	Upper 25+ ft in yellow-brown clay and gravel. Bottom of well in hard, blue, fossiliferous formation. FT.
10Q1	Charles Peterson	U, 507	Dg	39.6	40-8	39.5	..	..	..	Dry	2-21-53	N	NU	Well dug 40 ft, augured to a "large rock" at 65 ft. Report well nearly full occasionally.
10R1	Floyd Watson	U, 565	Dg	37.9	42	37.9	..	..	..	6.0	2-20-53	P, 1	D	Water leaves rust stain in sink. FT, Temp 48.
10R2	. . . .do. . . .	U, 565	Dr	300	6	300	275	25	Gravel, coarse	265.2	6-17-53	..	D	Bailed 10 gpm. L.
11A1	Arne Fagerness	U, 440	Dg	15.3	30	15.3	..	..	..	4.5	. .do. .	S, ½	D	Water has "iron" taste. FT.
11A2	William Knapp	U, 437	Dg	24.9	42	4(?)	..	..	..	4.0	. .do. .	S, (H)	D	Adequate supply. Temp 47.
11E1	Kenneth Carr	U, 500	Dr	185	5	147	146	39	Gravel, fine	R-142	Oct. 1949	Sb, 1½	D	Casing perforated from 134-144 ft. Yield 12 gpm. Rapid recovery. Well sucks and blows air. FT.
11F1	H. E. Lakin	U, 520	Dg	33.8	60	5	..	..	..	2.8	6-17-53	S, ¼	D	Supply inadequate during late summer and early fall. FT
11F2	Martin Wright	U, 520	Dg	15.8	30	15.8	..	..	..	10.7	. .do. .	..	..	Supply usually adequate. temp 47.
11G1	Fred Johnson	U, 485	Dg	39.7	30	30	..	..	..	37.6	. .do. .	J, ½	D, S	Rapid recovery. Pumps sand occasionally. Report water level never rises very high. FT.
11J1	Richard Faulkner	U, 360	Dr	240	2 or 4	..	..	..	..	R-Dry	Summer 1943	N	NU	Well was capped or filled.
11M1	Sven Lange	U, 560	Dg	47.2	30	47.2	..	..	..	33.6	2-20-53	J, ¼	D	Supply usually adequate.
11M2	. . . .do. . . .	U, 560	Dg	54	12(?)	54(?)	..	..	..	..	..	P, ⅓	NU	Well can be pumped dry with present pump. Water brown in color.
11M3	. . . .do. . . .	U, 550	Dg	49.4	..	49.4	..	..	..	16.7	2-20-53	S, (H)	NU	FT, temp 48.

Table 1.--Records of representative wells in Lewis County, Washington--Con.

Well no.	Owner or tenant	Topography, Altitude (feet)	Type of well	Depth of well (feet)	Diameter of well (inches)	Depth of casing (feet)	Water-bearing zone(s) Depth to top (feet)	Water-bearing zone(s) Thickness (feet)	Character of material	Water level Below datum (feet)	Water level Date	Pump, type-H. P.	Use	Remarks
	T. 14 N., R. 2 W.--Con.													
11M4	Sven Lange	U, 550	Dr	14.1	4	0	..	..	..	12.2	2-20-53	N	NU	Test hole, originally drilled to 56 ft.
11R1	William Wolter	V, 230	Dg	27.1	24	20	..	..	..	17.2	2-18-53	S, ½	D	Well bottoms in hard, blue-gray, fossiliferous clay or shale. Supply usually adequate. Report recovery rapid. Temp 51.
12E1	Elsie Spencer	H, 380	Dg-Bd	34.4	36-8	18	32	2	Sand	20.9	.do.	N	NU	Well in clay from 10-32 ft and at 34 ft. FT.
12N1	William Wolter	V, 250	Dg	17.2	48	2	..	..	..	2.9	.do.	S, (H)	D	Water used to clean dairy utensils. FT, Temp 48.
13C1	Perry Ramsaur	U, 260	Dg	15.6	30	15.6	15	1+	(Sand, fine)?	0.6	.do.	S, ¼	D	Well is located on marshy hillside and bottoms in blue clay. Upper 15 ft in "shale". Temp 49.
13E1	C. Jennings	H, 270	Dg	37.4	78-60	0	..	..	..	8.2	2-27-53	B, (H)	..	Upper part of well in tight sand or siltstone. FT.
13E2	..	H, 280	Dg	24.7	30	0	..	..	..	12.1	.do.	S, (H)	..	
14A1	Charles Shafer	V, 230	Dg	14.9	75	11	..	..	..	3.8	2-18-53	S, ⅓	D, S	Well located about 15 ft from stream. Encountered hard formation at 11 ft. Water is brown. FT, Temp 48.
14D1	Fred Hess	U, 520	Bd	46	6	46	..	..	Gravel and sand	R- 3	..	S, (H)	NU	Water turns rust colored when boiled.
14N1	Norman Wirta	H, 230	Dr	119	6	111	60	59	Sand	R-45	Summer 1946	J, 1	Ind	Water leaves "rusty" stain. Yield 15 gpm. Supplies slaughterhouse. L.
14Q1	Bill Fox	V, 200	Dg	20.5	48	20.5	..	..	..	3.9	3- 4-53	S, ¾	D	Dug through 6 ft of coal. Rapid recovery.
14R1	G. Steffensen	H, 215	Dg	25.0	60	25.0	23	2	"Soapstone"	15.9	2-27-53	S, ¼	D	Well in "soapstone" from 20-25 ft. Pieces of coal near bottom.
14R2	Neal Gensman	V, 200	Dg	23.1	..	22	..	..	..	4.8	3- 4-53	S, 1	D, S	Shells up to 6 inches in diam. Water supply usually adequate.

Table 1.--Records of representative wells in Lewis County, Washington--Con.

Well no.	Owner or tenant	Topography, Altitude (feet)	Type of well	Depth of well (feet)	Diameter of well (inches)	Depth of casing (feet)	Water-bearing zone(s) Depth to top (feet)	Water-bearing zone(s) Thickness (feet)	Character of material	Water level Below datum (feet)	Water level Date	Pump, type-H. P.	Use	Remarks
	T. 14 N., R. 2 W.--Con.													
14R3	Neal Gensman	V. 200	Dr	11.0	4	0	..	..	..	Dry	3- 4-53	N	NU	Originally 42 ft. test hole drilled by Standard Oil Co. in hard gray fossiliferous siltstone.
15A1	Frank Aggers	U. 565	Dg	43.7	36	37	..	..	..	2.2	2-21-53	J. ⅓	D	Dug through yellow clay 0-20 ft. sandy clay 20-43 ft. Petrified wood at 35. Water supply usually adequate.
15A2	.... do	U. 565	Dg	45.8	36	45(?)	..	..	Clay, yellow	27.6	..do..	J. ½	D	Inadequate supply. Slow recovery. FT.
15A3	Bob Hunter	U. 565	Dg	56.4	24-60	50	60(?)	..	Gravel and cobbles, cemented	41.5	..do..	J. ½	D	Report all water obtained from hard-cemented gravel and cobbles at bottom of well. Temp 48.
15B1	S. W. Alexander	U. 500	Dg	53.4	18-48	72	..	..	..	51.1	..do..	J. ½	D, S	Casing 18-in to 60 ft, 48-in to 72 ft. Well dug 72 ft, filled with gravel to 53 ft level. Rapid recovery. FT.
15E1	T. J. Patterson	V. 180	Dr	50	6	50	50	1	..	..	..	J. ½	D, S	Well drilled 120 ft, sealed off at 50 ft. Gray fossiliferous shale from 50-120 ft. Water-bearing at 50 ft. Supply limited.
15E2	.... do	V. 180	Dg	24	30	24	..	..	Clay, blue	..	..	S. ¼	S	Pumps dry easily in summer months.
15E3	Walter Petersen	V. 195	Dg-Bd	24	6-30	22	22	2	Sand(?) fine, blue	0.6	3- 4-53	S	D, Ind	Well dug mostly in a blue-gray shale or clay. Dark, hard, sticky clay from 6-7 ft. Augered from 22-24 ft. Supplies sawmill.
15K1	M. A. Helland	H. 240	Dg	35	..	35	..	..	..	R-25	..	J. ½	D, S	Report well "spring-fed".
15L1	Bundy(?)	V. 190	Dg	4.0	30	4	..	..	..	1.0	3- 5-53	..	D	Well dug in marshy area. FT
15N1	M. J. Brotherson	H. 200	Dr	123	6	65(?)	65	58	Sand, fine	R-35	..	J	D, S	Drilled through 2 thin coal layers. Water has "mineral" taste. Iron in water.

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Well no.	Owner or tenant	Topography, Altitude (feet)	Type of well	Depth of well (feet)	Diameter of well (inches)	Depth of casing (feet)	Water-bearing zone(s) Depth to top (feet)	Water-bearing zone(s) Thickness (feet)	Character of material	Water level Below datum (feet)	Water level Date	Pump, type-H. P.	Use	Remarks
	T. 14 N., R. 2 W.--Con.													
16E1	Walter White	V., 175	Dg	6.2	20	6.2	..	..	..	1.5	3-12-53	N	NU	Well partially filled with debris.
16E2	Francis Watterson	V., 175	Dr	77.8	6	82	65	..	(Shale, sandy)?	3.6	. .do. .	N	NU	Well originally drilled to 102 ft. Has filled in to 78 ft. Supply adequate for domestic use. L.
16J1	T. J. Thomsen	V., 170	Dr	79	6	61	59	20	Sandstone	26.9	3- 3-53	J, ½	NU	Augered 41 ft, drilled to 79 ft. Pumped 7± gpm for 20 min. Dd 7.35 ft. Water has "iron" taste, occasional odor. FT, L.
16M1	Francis Watterson	V., 175	Dg	10.8	30	10.8	..	..	..	2.5	3-12-53	S, ½	D	Water leaves "rust" stain on enamel.
16R1	A. B. Kelly	V., 185	Dg	21.8	5	21.8	..	..	..	9.6	3- 3-53	S, (H)	NU	
17A1	Conrad Mogan	V., 175	Dr	68	6	68	..	..	Gravel	R-10	..	J, ½	D	Reports sand from 30 ft down to gravel. Reports little dd with present pump. FT.
17A2	Jim Richmond	V., 175	Dn	22	1¼	22	..	..	Sand	R- 6	..	S	D	Encountered very hard "hardpan" at 15 ft. Water hard contains iron.
17D1	W. L. Ritter	V., 175	Dr	65	6	65	55	10	Gravel	R-15	..	J, 1½	D	Encountered "quicksand" at 15 ft. Iron in water.
17D2	Harry Ritter	V., 175	Dr	62	4	62	55	7	. . . .do. . . .	R-15	..	J(?), ¾	D, S	Report pumped 12 hr at 16½ gpm, dd 4 inches. Supplies 2 homes. Iron in water.
17D3	J. J. Collins	V., 175	Dr	61.9	6	63	..	..	Sand(?)	10.8	3-13-53	J(?)	D	Pumped 30 gpm, dd 10 ft. Water has "mineral" taste. Leaves rusty stain on enamel. FT, L.
17D4	L. E. Chalmers	V., 175	Dr	63	6	63	61	2	Gravel	10.4	3-18-53	C, 3	D, Irr	Sandy clay from 0-61 ft. Pumped 25 gpm, dd 15 ft. Supply inadequate for irrigating 5 acres. Water hard.
17E1	Leonard Santee	V., 175	Dr	54.1	6	50	50	3+	. . . .do. . . .	8.8	. .do. .	P, ¼ J, ⅓	D	Pumped more than 4 hr at 35 gpm, dd 3 ft. Water hard. L.

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	T. 14 N., R. 2 W.--Con.													
17H1	Joe Cramer	V. 175	Dn	18	1¼	18	..	..	..	R- 4	..	N	NU	Reports supply inadequate since earthquake in 1949.
17H2	Mrs. Marlin Wofford	V. 175	Dn	25-28	1½	25-28	..	..	..	R- 2	..	S. ¼	D	Water leaves "rust" stain on enamel.
17K1	R. E. Brock	V. 175	Dn	85	..	..	..	..	Gravel, fine	R-12	..	P. ½	D	Encountered log at 30 ft. Well flowed for one night after drilling.
17K2	Oscar Keto	V. 175	Dr	80	6	80	75	5	. . . .do. . . .	8.8	3-17-53	N	NU	Driller reports well in silt from 0-75 ft. H.
17R1	Charles Proffitt	H. 200	Dg	9.4	72	0	..	..	..	6.2	3-12-53	S. ½	D	Upper 7 ft of well appears to be in a gray-brown clay. Supply limited. Water hard, stains enamel yellow.
17R2	Leonard Felker	V. 190	Dg	18.3	30	18.0	..	..	..	11.7	. .do. .	S. ½	D	Rapid recovery.
18A1	H. E. Ward	V. 175	Dn	50	1½	50	..	..	..	R- 7	..	J(?).1	D, S	Reports well never has been pumped dry.
18C1	O. H. Bragg	V. 180	Dg-Dr	75.0	6	40(?)	..	..	..	19.2	3-19-53	J	D	Well drilled inside of 20-25 ft dug well. Driller encountered blue shale.
18C2	James McCash	V. 180	Dr	222	6	10	150	72	Siltstone(?)	R-75	1932	P. 2	D, S	Drilled in blue, "hard formation" (siltstone?) from 10-222 ft.
18D1	J. F. Newbury	H. 185	Dg	23.6	30	..	..	..	Siltstone	19.9	5-17-47	G	D	Reports well goes dry every summer.
18E1	..	H. 240	Dg	10.0	36	10(?)	..	..	..	1.9	3-19-53	N	NU	Water cloudy.
18H1	Dale Haynie	V. 175	J	64	2	64	62	2	Gravel	9.0	3-18-53	P. ¼	D	Drilled through "quicksand". Report very little dd when well is pumped. FT.
18R1	Alfred Hamilton	V. 175	Dr	50	6	50(?)	..	..	. . . .do. . . .	15.0	5-26-47	J	D, S	"Mud", blue clay "quicksand" overlie gravel. Water hard, has "mineral" taste, stains enamel rust-colored.

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	T. 14 N., R. 2 W.--Con.														
19A1	Alfred Hamilton	V. 175	Dn or J	55	2	..	..	..	..	..	..	..	J. 1	D	Water leaves rust stain on enamel. FT.
19F1	Leopold Blaser	V. 175	Dg	11.2	30	..	9	3(?)	"Quicksand"		4.4 1.8	5-26-47 3-31-53	N	NU	FT.
19F2	.... do	V. 175	Dg	17.9	12	17.9	..	..	..	..	6.9	3-18-53	S. ½	D	FT.
19F3	.... do	V. 175	Dr	51.0	6	60	50	10	Gravel		11.0	..do..	J. 1	S	Originally drilled 60 ft. "Quicksand" from 20-50 ft, gravel from 50-60 ft. Water hard, contains iron.
19H1	Bridgett Emrich	V. 175	Dg	23.3	36	23.3	..	..	"Quicksand"		15.4 13.1	5-17-47 3-18-53	S. (H)	D	FT
19H2	.... do	V. 175	Dn	65	2	65	65	?	Gravel		R-14	..	S. (H)	NU	Well in "quicksand" nearly entire depth. Water has "soda" taste. FT.
19H3	.... do	V. 175	Dr	75	6	75(?)	65	10	....do....		9.8	3-18-53	N	NU	Well in "quicksand" to 65 ft. Water is hard, has "soda" taste.
19H4	Bridgett Emrich	V. 175	Dn ?	300	2 ?	150-175	291½	8½	Sand ?		R-15-25	1941	N	NU	Well has been capped and sealed. Water has salt or soda taste. L.
19N1	A. R. Hamilton	V. 175	Dg	32.8	36	..	..	..	..	..	16.8	3-19-53	J. ½	D	Well about 30 ft east of river. H, FT.
20A1	Iver Floe	V. 190	Dr	102	6	102	..	..	Sand, white		12.8	3-12-53	C. 2	D	Dd 15 ft after 3 days pumping. Rapid recovery. Water hard has "mineral" taste.
20A2	Henry Saubers	H. 200	Dr	72	6½	72	..	..	..	..	24.0	3-13-53	J. ½	D, S	Encountered coal at 35 ft. Well has never been pumped dry. Iron in water.
20B1	John Marth	V. 175	Dr	55	6	55	..	..	Gravel		7.1 6.2	5-22-47 3-13-53	P. ½	D, S	Supplies two homes. Iron in water. FT.
20H1	J. C. Hampe	H. 220	Dg	71	42	1.5	..	..	..	..	1.0	3-11-53	P. ¼	Irr	Well can be pumped dry in 2 hr.
20H2	.... do	H. 220	Dr	140	5	120	..	..	..	..	27.5	..do..	J. 1	D	Upper 50 ft of well in clay, and uncased. Report very little dd when pumping.

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	T. 14 N., R. 2 W.--Con.													
20Q1	Mrs. Hal Nelson (?)	H. 200	Dr	78.0	6	..	..	..	..	5.1	. . do . .	J. 1	NU	
22A1	Henry Hatcher	V. 195	Dg	18	12	18	..	..	..	R- 9	..	S. (H)	D	Limited yield. Slow recovery. FT.
22A2	. . . . do	V. 195	Dg	11.1	48	0	..	..	..	2.4	2-27-53	S. (H)	NU	
22A3	Louis Howell	H. 205	Dg	12	36	12	12	..	Sandstone, blue	R- 4	..	S. (H)	..	Well dug in yellow clay. Supply usually adequate. If water stands in summer yellow precipitate forms.
22H1	Oscar Keto	H. 240	Dr	1200	4-2	1200	..	..	Sand(?)	+0.2	2-27-53	N	NU	Driller hit salt water at 275 ft. gas under pressure, at 1200 ft. Water effervesces. L, FT
22K1	Oscar Keto	H. 560	Dr	1800	12-10	450	418	42	Sand, gray	211.5	3- 3-53	N	NU	L, FT.
23A1	Norman Svinth	V. 195	Dg	28.8	18	28.8	..	..	..	2.4	2-27-53	S. ¼	S	Iron in water. FT, Temp 49.
23A2	. . . . do	V. 200	Dg	17.7	36	17.7	..	..	..	10.4	. .do. .	G	D	A 13-ft well 100 ft away is dug in yellow-brown clay and weathered gravel. FT.
23F1	--Siler	H. 270	Dg	14.2	42	3.5	..	..	..	3.5	. .do. .	N	NU	
23H1	R. T. Stowe(?)	V. 240	Dg	10.4	48	0	..	..	..	5.2	3- 6-53	S. ½	..	Water slightly cloudy. FT.
23M1	A. E. Edwards	H. 230	Dr	301	3	0	120	..	Sandstone, silty	Flows	Sept. 1951	N	NU	Test hole for Fuels Branch, U.S.G.S. Has been plugged and sealed. L.
23M2	. . . .do. . . .	H. 200	Dg	25.2	42	25.2	..	..	..	R-15	Summers	S. (H)	D	Water is rust-colored. FT.
23P1	Tom Moran	H. 230	Dg	32.1	48	50	50	15	Gravel, fine	10.9 3.4	3- 4-53 . .do. .	N	NU	Well originally dug 85 ft, has caved in. Water stains clothes yellow, turns yellow when boiled. L, FT.
24E1	Mrs. J. C. Lammers	V. 230	Dg	24.7	18	24.7	..	..	..	16.7	3- 3-53	S. (H)	D	Supply usually adequate.
24H1	Leo Noel	H. 360	Dg	9.5	84 by 72 72 by 60	4	4	5	Siltstone	1.9	. .do. .	S. ⅓	D	Upper 4 ft gravel and cobbles, lower 5 ft gray siltstone or sandstone. Supply usually adequate. FT.

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	T. 14 N., R. 2 W.--Con.													
24M1	Dr. Emil Matz	U. 365	Dg	27.1	48-24	..	..	..	..	10.5	3- 5-53	S. (H)	..	
25E1	Josephine Heinricher	H. 240	Dr	120	6	120	..	..	..	..	..	P. 1	D, S	Well has never been pumped dry.
26E1	Richard Jacobson	U. 590	Dg	47.3	30	8	..	..	..	41.2	3- 5-53	S. (H)	..	FT.
26L1	Ervin Henderson	U. 600	Dg	31.8	36	31.8	12	6	Gravel	2.3	. .do. .	S. 1	D, S	Well in a fine, yellow-brown and yellow-gray sand from 18-31 ft.
26M1	B. R. Anderson	U. 560	Dr	100	6	100	100	4	Sand, fine	R-84	..	P. ¾	D, S	Well drilled 104 ft deep, has sanded in 4 ft. Yield 5 gpm. Pumps sand occasionally. L.
26P1	Ervin Henderson	U. 555	Dr	150	6	..	70	..	..	..	..	N	De	Encountered some water at 70 ft. Well in blue "shale" from 100-150 ft. Casing pulled, water rose to above 70 ft from land surface. Supply inadequate for domestic use. Well filled in.
28P1	Chester Rowland	V. 200	Bd	14.8	7	0	10	5	Clay, blue	1.0	3-11-53	S. 1/6	D, S	Rapid recovery.
28Q1	Tom Hampson	V. 195	Dr	75	6	60	60	10	Sand, coarse	3.5	. .do. .	..	D	Yield 2 gpm. L, FT.
28Q2	. . . .do. . . .	V. 195	Dr	50	6	0	..	..	..	2.0	. .do. .	N	NU	Originally drilled 145 ft. Sanded in to 50 ft. Water effervesces. Dd 15 ft with fire pump. Water hard, contains iron. L.
28Q3	. . . .do. . . .	V. 195	Dr	180	6	0	35 135	..	"Quicksand" Sand	R-30	April 1952	N	De	Casing pulled and well filled. "Quicksand" at 35 ft. Salt water at 136 ft in sand. Gas encountered. Water salty. Casing pulled, well plugged.
28R1	Ralph Loy	V. 205	Dr	1000	4(?)	0	..	..	..	..	..	N	NU	Well was test hole for USGS, Fuels Branch (?). Artesian water at 940 ft.
30H1	Callison Co.	V. 180	Dg	30	..	..	..	..	Alluvium	..	..	N	De	Well formerly used for industrial purposes. Report water high in iron, plugged pipes in year's time.

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	T. 14 N., R. 2 W.--Con.													
30R1	Forget-Me-Not Ice Cream Plant	V, 180	Dg	30	36	30	..	..	Gravel	R- 26½	1931	F	Ind	Used in refrigeration. Supply inadequate. Report water high in calcium.
31C1	City of Chehalis	V, 180	Dr	127	8	65	36	29	Gravel, clay	11.9	5- 1-53	N	NU	Bailed 80 gpm, little dd. L, FT, Temp 53.
31P1	. . . .do. . . .	V, 180	Dr	1031	8	40	25	14	Gravel, fine	R-14	. .do. .	N	NU	Test hole. Pumped 70 gpm, dd 20 ft. L.
31P2	. . . .do. . . .	V, 180	Dr	50	8(?)	35	..	..	..	R-21½	May 1953	N	De	Test hole. Casing pulled, well filled. L.
31P3	. . . .do. . . .	V, 180	Dr	34	8	30	..	..	..	20.4	5-15-53	N	NU	Test hole. L.
31Q1	. . . .do. . . .	V, 180	Dr	37	24	37	17	14	Gravel	12.4	10-20-53	..	..	L.
34E1	Lloyd Macomber	C, 245	Dr	130	6	100	130	..	Sand, fine	R-47	Aug. 1947	J, 1	D	Has pumped 2-3 days steadily, through garden hose. L.
34H1	R. Stureman	H, 330	Bd	18	6	0	10	8	Clay, sandy	..	..	S, H	D	Water always cloudy. FT.
34H2	C. A. Pierce	H, 400	Dg	12.9	45	12.9	..	..	..	6.6	3-11-53	S	D, S	Adequat e supply. FT.
35A1	Joe Wendling	U, 550	Dg	32.9	24	32.9	30	2	Clay and sand	21.9	3- 5-53	B, (H)	D, S	Adequate supply.
35B1	..	U, 520	Dg	27.3	78 by 60	0	..	..	..	1.8	. .do. .	S	NU	Water is cloudy. FT.
35B2	J. L. Ester	U, 520	Dg	45.5	30	45.5	..	..	..	37.5	3- 6-53	J, ½	D	
35E1	Orval Christler	H, 400	Dg	24.0	30	24.0	..	..	..	21.5	. .do. .	S, (H)	NU	FT.
35E2	Mrs. Fay McCorkle	H, 430	Dg	14.3	54	1.5	14	1	Sand and gravel, yellow brown	4.9	. .do. .	S, ¼	..	Yellow-brown clay to 14 ft. Well has never been pumped dry. Rapid recovery.
35F2	H. C. Cristler	U, 480	Dg	7	42	7	..	..	Clay, gravel and cobbles	R- 1	..	S, ¼	D	Supply inadequate in late summer.
35F3	J. S. Lambert	U, 480	Dg	7.2	42	7.2	..	..	..	1.0	3-11-53	S, ½	D, S	Iron in water.
35G1	E. R. Fleming	U, 520	Dg	55.7	48	55.7	..	..	..	33.8	3- 6-53	J, ½	D	Report water has "bad" taste.
35G2	. . . .do. . . .	U, 520	Dg	31.2	36	31.2	13	18	Gravel and clay	13.6	. .do. .	..	..	Well dug in red-brown clay and weathered gravel, 100 ft southwest and 10-15 ft lower than well 35G1. FT.

Table 1.--Records of representative wells in Lewis County, Washington--Con.

Well no.	Owner or tenant	Topography, Altitude (feet)	Type of well	Depth of well (feet)	Diameter of well (inches)	Depth of casing (feet)	Water-bearing zone(s) Depth to top (feet)	Water-bearing zone(s) Thickness (feet)	Character of material	Water level Below datum (feet)	Water level Date	Pump, type-H. P.	Use	Remarks
	T. 14 N., R. 2 W.--Con.													
36A1	R. B. Diller	U. 577	Bd	24.5	12	24.5	..	..	..	4.0	. .do. .	S, (H)	..	FT.
36A2	C. C. Gilman, Jr.	U. 577	Bd	30.2	12-8	5	18	12	Clay, red	19.2	. .do. .	J, ½	D	Well dug in red clay. Adequate supply.
36C1	Curtis Settle	U. 560	Dg	65	36	65	..	..	..	..	..	J, ½	D	Water level fluctuates greatly throughout year. Slow recovery. Supply inadequate in late summer.
	T. 14 N., R. 3 W.													
	1A1 and 1A2-see next page													
1A4	Carroll Jewell	V. 170	Dr	35	6	35	..	..	Gravel	..	..	J, 1	D,Irr	Adequate supply. Water soft.
1B1	J. E. Miller	V. 166	Dr	46	6	46	38	8	Sand and gravel	R-13 R-14	6- 2-48 May 1954	C, 5	D,Irr	Pumped 4+ hr at 60 gpm, dd 7 ft. L.
1B2	F. H. Steelhammer	V. 166	Dr	47	6	47	28	19	. . . .do. . . .	R-24 28.0	9-27-49 7- 9-54	T, 5	Irr	Sand and gravel 0-47 ft. Casing perforated 36-45 ft. Bailed 4 hr at 48 gpm, dd 1 ft.
1B3	T. Aiton	V. 166	Dr	42	4	42	..	..	Gravel	R-25	Aug. 1952	J, ½	D	Adequate supply. Water soft.
1B4	--Schoelkopf	V. 166	Dr	51	6	..	..	..	..	R-14	7- 5-54	..	D,Irr	. . . . Do . . . .
1B5	F. Smith	V. 166	Dr	44	4	44	..	..	Gravel	R-22	July 1953	J, ½	D	. . . . Do . . . .
1C1	F. Alexander	V. 163	Dr	46	6	46	..	..	Sand and gravel	..	..	J, ½	D	. . . . Do . . . .
1D1	F. Busek	V. 161	Dr	52	8	..	..	..	Gravel, fine	R-38	..	J, 1	D	Irrigates from Chehalis River with 5 HP centrifugal.
1F1	A. McDonald	V. 163	Dr	45	6	45	..	..	..	21.5	7-15-54	J, ½	D	Adequate supply. Water soft.
1F2	C. A. Sellards	V. 163	Dr	44	6	44	..	..	Sand and gravel	R-16	1-15-53	J, 2	D, Irr	Drilled entirely in sand and gravel. Pumped 4 hr at 30 gpm, dd 3 ft.
1G2	C. VanDerWel	V. 168	Dg	27	48	..	16	11	Gravel	18.8	7-15-54	S, ½	D	Gravel from 0-27 ft. Well supplies greenhouse.
1G3	A. Glanz	V. 168	Dr	48	6	48	..	..	. . . .do. . . .	R-18 R-24	Winter Summer	J, ½	D	Adequate supply. Water soft.
1G4	G. Greene	V. 168	Dr	47	4	47	..	..	. . . .do. . . .	R-25 22.9	Sept. 1952 7-16-54	J	D	Adequate supply. Water hard.
1H1	A. Osborn	V. 170	Dr	57	6	57	..	..	Gravel and sand	R-34	Sept. 1952	T, 5	D, Irr	Pumped more than 4 hr at 85 gpm, dd 4 in.

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Well no.	Owner or tenant	Topography, Altitude (feet)	Type of well	Depth of well (feet)	Diameter of well (inches)	Depth of casing (feet)	Water-bearing zone(s)		Water level		Pump, type-H. P.	Use	Remarks
							Depth to top (feet)	Thickness (feet)	Character of material	Below datum (feet)	Date			
	T. 14 N., R. 3 W.--Con.												
1A1	E. L. Hendricks	V. 170	Dr	42.5	6	42½	..	..	..	17.6	5-17-47	C. 1	D	Pumped 8 hr at 15 gpm, dd 2½ ft. H.
1A2	L. B. Henderson	V. 170	Dn	42	2	42	..	..	Gravel	R-14 R-15	April 1953 6- 1-53	T. 3	D, Irr	Pumped 4 hr at 30 gpm, dd 10 ft.
1H2	A. H. Padham	V. 170	Dr	22.7	6	..	..	..	. . . .do. . . .	22.5	7-16-54	J. ½	D	Water level low in late summer.
1J1	Wash. State Dept. of Game	V. 169	Dr	56	8	56	54	2	Gravel and sand	R-25 17.1	8-15-46 7-15-54	J. 5	D, S	Clay, gravel, and sand from 0-54 ft. Pumped 4+ hr at 42 gpm, dd 10 gpm. Water soft. (Report water level in old 28 ft well 23⅛ ft below land surface).
1J2	John Meiers	V. 169	Dr	55	6	55	35	20	. . . .do. . . .	R-18 18.2	7- 9-52 7-15-54	J. 3	D, S Irr	Pumped 4+ hr at 40 gpm, dd 5 ft. Water soft. L.
1J3	M. Williams	V. 169	Dr	49½	6	49½	..	..	Sand and gravel	R-16	6- 1-53	J. 1	D	Adequate supply. Water soft.
1J4	A. Kirkpatrick	V. 169	Dg	26	60 by 60	26	..	..	Gravel	Dry	7-16-54	S. (H)	D	Inadequate supply. Water soft.
1J5	A. B. Fjordbeck	V. 169	Dr	48	6	48	..	..	Gravel, fine	..	..	J. ½	D	Adequate supply.
1K1	G. Chalberg	V. 167	Dr	45	6	..	..	..	Gravel	R-18	May 1954	J. ½	D	Adequate supply. Water soft.
1K2	D. Lee	V. 166	Dr	52	4	52	..	..	Sand	R-18	..	J. ⅓	D	Adequate supply.
1K3	L. Strentz	V. 165	Dg	26	48	26	20	6	Gravel, coarse	20.4	7-15-54	S. 1¼	D, Irr	Sand and gravel from 0-26 ft.
1K4	W. Cannon	V. 165	Dn	27	2	27	..	..	..	..	..	S. ½	D, S	Adequate supply. FT.
1K5	W. Prill	V. 165	Dr	40	6	40	..	..	Gravel	..	..	S. 1	D	Adequate supply. Water soft.
1R1	Steve Drop	V. 169	Dr	42.2	8	43	20	23	Sand and gravel	R-15 10.5	5-20-50 4- 2-53	N	NU	Clay 0-20 ft, sand and gravel 20-43 ft. Casing perforated 30-43 ft. Pumped 4+ hr at 15 gpm, dd 6 ft.
1R2	. . . .do. . . .	V. 169	Dg	22.6	..	..	..	..	..	10.8	. .do. .	S. ½	NU	House vacant. Temp 48.
1R3	T. E. Goodman	V. 169	Dr	52	8	48	48(?)	4(?)	Gravel	16.9	Apr. 1950	C. 3	D, Irr	Gravel nearly entire depth. Some water at 25 and 35 ft. "Hardpan" overlies gravel aquifer. Pumped 8-10 hr at 40 gpm, dd 3 ft. Water becomes yellowish if well not pumped.

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Well no.	Owner or tenant	Topography, Altitude (feet)	Type of well	Depth of well (feet)	Diameter of well (inches)	Depth of casing (feet)	Water-bearing Depth to top (feet)	Water-bearing Thickness (feet)	Water-bearing zone(s) Character of material	Water level Below datum (feet)	Water level Date	Pump, type-H. P.	Use	Remarks
	T. 14 N., R. 3 W.--Con.													
2D1	-- Bates	H, 200	Dr	62	6	..	..	..	Clay, sandy, blue	R-38	July 1953	J, ¾	D	Inadequate supply. Water hard, brown when heated.
2L1	Al Harting	U, 350	Dg	27	36 by 36	27	..	..	"Rocks", soft	21.9	7-14-54	J, ¾	D, S	Inadequate supply. Water soft, blue-green. L.
2L2	. . . .do. . . .	U, 340	Dg	37.0	72	..	22	23	Sand and gravel	23.4	. .do. .	J, 1	D, S	L.
2N1	O. Ticknor	U, 400	Dg	50.0	48 by 48	..	..	..	..	37.7	7-16-54	J, ½	D	Adequate supply. Water soft.
3F1	G. Nelson	V, 230	Dg	12	60	..	..	..	Clay	R- 6	July 1953	S, ¾	D, S	Well pumps dry in summer.
3R1	T. Fagerness	U, 410	Dg	24.2	36	..	..	..	Gravel	20.9	7-14-54	S, ¼	D	Water level is low in fall.
11A1	H. Taylor	U, 380	Dr	32	8	..	..	..	..	..	..	J, ½	D	Water soft.
11C1	J. Wirthlin	U, 417	Dr	50	6	50	..	..	..	..	..	J, ½	D	Water hard.
11F1	S. Matlock	U, 400	Dg	30	24	30	..	..	..	R-27½	July 1953	J, ½	D	Water soft, contains some iron.
11F3	C. Sareault	U, 390	Dg	28.5	36	35	10	25	Gravel	R-20½ 18.1	November 7-16-54	P, ½	D	Pumped 2 hr at 40+ gpm, dd 10 ft. Report water acid. L, FT.
11G1	J. Gibbs	U, 370	Dg	40	36	40	38	2	Gravel	R- 7	July 1954	J, ½	D, S	Gravel overlain by 38 ft of clay. Pumped 3 hr at 5 gpm, dd 6 ft. Water soft. Temp 52.
11G2	B. Rinear	U, 380	Dg	35	48 by 48	35	..	..	Clay (?)	R-30	. .do. .	J, ½	D	Adequate supply. Water soft.
11G3	L. Groman	U, 370	Dr	44	6	..	..	..	Sandstone	R-33	July 1953	B, (H)	D	Water soft.
11H1	A. Atwood	U, 360	Dg	8.9	72 by 120	..	..	..	Shale(?)	3.8	7-16-54	S, ¼	D	Supply usually adequate.
11H2	Carl Erikson	U, 360	Dr	55.0	6	55.0	..	..	..	25.7	7-20-54	..	D	Supply usually adequate. Water soft.
11K1	A. Duncan	H, 250	Dg	35	36	35	..	..	..	14.6	. .do. .	S, (H)	D	Water soft, contains iron.
12A1	Steve Drop	V, 165	Dg	21.0	24 by 24	..	..	..	..	15.4	5-17-47	S	D	
12A2	. . . . do	V, 165	Dr	50.0	8	50(?)	..	..	..	..	..	J, ⅓	D	Well drilled in clay mostly. Drilled to 60 ft, pulled back to aquifer at 50 ft. Supply adequate for domestic use, not for irrigation. FT.

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	T. 14 N., R. 3 W.--Con.													
12E1	--Burness	H. 340	Dg	28	48 by 48	..	..	..	..	R-14	July 1953	S. 1	D. S	Adequate supply. Water soft.
12E2	D. E. Blanchard	H. 320	Dg	31.1	36	5	..	..	Gravel and clay	25.7	7-20-54	S. ½	D	Supply limited in summer.
12E3	J. Breckenridge	U. 370	Dr	55	8	50	..	..	Sand and gravel	R-19	1950	J	D	Supply limited in fall. Report 0.17 ppm iron in water.
12E4	Earl Taylor	U. 380	Dr	115	12	..	..	..	..	R-25	July 1954	..	D	Supplies two homes. Water soft.
12G1	T. C. Smith	V. 183	Dg	19.5	84	..	..	..	..	12.2	7-20-54	S. 1	D. S	Supply inadequate. Water becomes yellow when water level low. Water soft.
12H1	Joe Graf	V. 173	Dg	20	48	20	20	2	Gravel	10.1	. .do. .	S. ½	D	Water from nearby 34-ft drilled well too "rusty" to use. L.
12J2	Floyd Jorstad	V. 170	Dr	150	6	..	..	..	..	45.2	7-22-54	J. ½	D	Well pumps dry. Water soft.
12J3	Ted Neuert	V. 173	Dr	72	6	55	40	20	Shale(?), blue	R-20	July 1953	J. 1	D	Adequate supply. Water hard, contains iron.
12R1	Clyde Guy	V. 175	Dn	27	1½	27	18	9	Sand and gravel	R- ½	. . do . .	S. ¼	D	"Gumbo" from 0-18 ft. Iron in water.
13B1	C. LeDuc	V. 175	Dr	17.6	6	30	..	..	..	8.4	7-21-54	S. ½	D	Water soft, "rusty" when bailed.
13B2	C. Johnson	V. 190	Dg	21.6	30	..	..	..	..	17.7	. .do. .	S. ¼	D	Report water level low in summer.
13B4	R. J. Wegner	V. 180	Dr	230	6	..	..	..	..	R-14	July 1954	S. ½	D	Adequate supply. Water soft.
13B5	Ray Denman	V. 180	Dg	19.7	30	..	..	..	..	14.6	7-22-54	S. ¼	D	Adequate supply. Water hard.
13B6	C. E. Marshall	V. 180	Dn	85	2	85	..	..	..	..	..	J. ½	D	Supplies two homes.
13C1	M. Adams	V. 190	Dr	20.1	6	..	..	..	..	17.5	7-21-54	S. ¼	D	Adequate supply. Water soft.
13C2	P. H. Brooks	V. 185	Dg,Dr	53	6	50	50	3	Gravel	R-11	1952	J. ½	D	Water soft, contains iron, has soda taste. L.

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							Depth to top (feet)	Thickness (feet)	Character of material	Below datum (feet)	Date			
	T. 14 N., R. 3 W.--Con.												
13D1	H. Brown, Jr.	H, 220	Dr	73	6	..	..	..	..	..	..	J, ½	D	Iron in water.
13D2	J. L. Berry	V, 205	Dg	17.6	48	..	..	..	Gravel	8.1	7-22-54	S, ½	D	Water hard, contains iron.
13D3	L. L. Butterfield	V, 205	Dg	27	48	..	23	1	.. do. ..	13.4	7-22-54	S, (H)	D	Water soft.
13G1	Don Stumm	..	Dr	90	6	..	..	..	..	..	..	S, ½	D	Adequate supply. FT.
13G2	Harold Barnes	..	Dr	84	6	..	..	..	..	Flows	7-21-54	J, ½	D	Water soft, contains iron.
13G3	Sam Holcomb	V, 180	Dr	69	6	..	..	..	Clay	R- 6	May 1954	S, ½	D	Water hard, contains iron.
13M1	G. L. Holmes	H, 330	Dg	40	48	..	..	..	..	R-32	June 1954	S, (H)	D	Adequate supply, water soft.
14Q1	C. C. Heath	H, 480	Dg	40	48	..	..	..	..	12.7	7-21-54	G	D	Goes dry in late summer. Water hard, contains iron.
18D1	Carl Mittge	V, 290	Dg	20.3	36	21	..	..	Shale, blue	12.7	7-29-54	S, ½	D	FT.
22Q1	J. Anderson	H, 700	Dg	36.6	48	40	..	..	"Shale"	21.8	7-22-54	J, ¾	D	Well dug in "shale Rock". Report water level low in spring. Water soft.
24A1	Walt Hanke	V, 190	Dg	20	48	..	..	..	Clay(?)	..	..	S	D, S	Well pumps dry. Owner also has second well and spring.
24Q1	Ted Goebel	H, 215	Dg	16	60	16	..	..	.. do. ..	R- 5	July 1954	S, ¾	D, S	Occasionally pumps dry.
25C1	Warren Aust	V, 195	Dr	180	6	..	..	..	..	R-<30	5-17-47	P, ¾	D	Well drilled almost entirely in shale; well beds in material bearing sea shells. Water-bearing at 36 ft, 58 ft, 78 ft. (Casing perforated at these levels). Yield 3 gpm. Iron in water.
26P1	Stanley Tufts and Paul Yott	U, 470	Dr	775	6	555	700	75	Sand, fine	R-250	1953	N	NU	Bailed 1½ gpm. L.
26R1	H. J. Alexander	U, 330	Dg	36	48	13	30	6	Shale	32.2	7-21-54	J, ½	D, S	Clay loam 0-30 ft. FT.
27A1	F. P. Siegwarth	U, 560	Dg	39	39	..	29	10	Gravel and clay	29.1	7-22-54	J, ¾	D	"Shot clay" 1-20 ft, yellow clay and gravel 20-39 ft. Well can be pumped dry. Water soft.

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	T. 14 N., R. 3 W.--Con.													
28A1	Ben Thomas	H, 550	Dg	33	50	6	23	10	Shale	16.1	7-22-54	J, ½	D	Well dry in fall. Water hard, contains iron.
28H1	Fred Johnson	U, 500	Dg	50	..	..	..	..	..	16.3	7-23-54	J, ¼	D, S	Water 50 ft.
28J1	S. R. North	U, 490	Dg	45	60	..	..	..	Sand and gravel	38.3	...do...	J	D, S	In October water level is low and water "rusty".
28J2	A. J. Givens	U, 470	Dg	57	48	..	..	..	Gravel	..	..	J, ¾	D	Well can be pumped dry. Water soft, contains iron.
28J3	....do....	U, 470	Dr	151	6	151	144	7	Sand and gravel	R-130	April 1954	N	NU	Yield 12 gpm. L.
31L1	A. Peterson	V, 230	Dr	62	8	62	..	..	Shale, blue	R- 5	..	J, 1	D, S	Yield 20 gpm. Water hard, contains iron.
33A1	C. Albrecht	V, 320	Dg	..	48	..	..	..	..	..	..	S, ½	D	Well can be pumped dry. Water soft.
33F1	Howard Saxton	U, 480	Dg	37	45	..	..	..	Clay and rock	R-30	July 1953	J, ¾	D, S	.... Do ....
33H1	....do....	U, 490	Dg	35	45	35	26	9	....do....	R-26	...do...	J, ¾	D	Red clay 0-6 ft, blue-gray clay and soft rock 6-35 ft. Water 50 ft.
33H2	....do....	U, 480	Dg	27	45	27	..	..	....do....	R-18	...do...	S, ¾	D, S	Supply adequate; water soft. One of 3 springs on property supplies chickens.
33N1	W. W. Richardson	V, 250	Dg	10.5	84 by 84	7	..	..	..	5.1	6-17-53	S, ¼	D, S	Report water level constant.
33N2	....do....	U, 280	Dg	13.1	60	10	..	..	..	5.0	...do...	S, (H)	S	Water has slight "iron" taste. FT.
34H1	Ben Pratt	H, 340	Dg	20	48	..	8	12	"Sandstone", white	R-10	July 1954	S, (H)	D	"Soapstone" 2-8 ft, gray-white hard sand 8-20 ft. Water soft.
34J1	J. Hein	U, 310	Dg	52.1	60	..	..	..	..	R-40⅓	5-28-47	J, ¾	D, S	Bottom 2 ft in basalt.
34K1	J. Hileman	U, 280	Dg	21	48	21	..	..	..	10.2	7-23-54	S, ¼	D	Water hard, contains iron.
34K2	J. Grigsby	U, 260	Dg	22	..	0	..	..	Clay, brown	R-14	July 1954	S, ½	D, S	Well bottoms on "soapstone". Report well goes dry in Sept. Iron in water. FT

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	T. 14 N., R. 3 W.--Con.													
34Q1	Kenneth Wilson	U, 240	Dr	135	6	70	70	65	Basalt, jointed	32.3	6-16-53	J, ¾	D	Drilled through gray clay 0-70 ft, jointed basalt 70-135 ft. Yield at least 5 gpm. FT.
34R1	Al Bieker	U, 250	Dg, Dr	125	6	0	..	..	..	23.5	6-17-53	J, ½	D, S	Well originally dug to 47 ft. L.
35A1	Seventh Day Adventist Church	H, 240	Dr	258	6	240(?)	240	5	Sand, fine	R-150	..	..	Inst	Blue clay 0-240 ft. Bailed 8 gpm, dd 25 ft.
35F1	Amstutz Bros.	U, 450	Dg	53	36	53	..	..	..	R- 20	April 1954	S, (H)	D, S	Water soft, contains iron.
35K1	Robert Hanson	U, 250	Dg	68.1	60	..	..	..	..	60.4	5-27-47	J, ½	D	At least bottom of well in gray friable siltstone or fine sandstone. Water tastes "hard", has orange-brown precipitate. FT.
35K2	H. F. Hanke	U, 320	Dg	50	40	50	..	..	"Sandstone"	30.4	7-21-54	J, ½	D	Well pumps dry in summer. Water hard, sometimes "rusty". Report water level varies from 0-20 ft below land surface.
35N1	Frank Rosbach	U, 280	Dg	17½	48 by 48	..	..	..	"Clay"	..	..	S, ½	Irr	Bottom ½ ft of well in hard rock. Well can be pumped dry in 2 hr.
35N2	.... do	U, 280	Dg	30	48	..	..	..	..	R- 15	May 1947	S, ½	D	Solid rock from 18-30 ft. Report well has never gone dry. Water soft, leaves iron coating in hot-water pipes.
35N3	.... do	U, 285	Dg	17	48	..	16	1	Basalt	R- 2	..do..	S, (H)	S	Bottom 1 ft of well in basalt. Report water level never lower than 4 ft below land surface.
35P1	Clara McDonald	U, 350	Dr	96	6	80	80	16	Basalt, jointed	R- 88	Sept. 1943	J, ¾	D	Limited supply. Greater supply of water at 72 ft cased off. Report water level never rises much above 88 ft below land surface. Iron, yellow sediment in water. L, FT.
35Q1	Carl Wenzelburger	U, 320	Dr	73	6	14	70	3	Sand, gray	R- 20	Spring 1953	J, ½	D, S	Water forms red-brown crust in pipes. L, FT.

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	T. 14 N., R. 3 W.--Con.													
36H1	Kelly Hamilton	V. 178	Dr	138	6	64	..	..	..	R-30	Jan. 1955	T. 2	D. S	Pumped 90 days at 20 gpm, dd 18 ft. Water leaves yellow-brown stain. L,FT, Temp 50.
36J1	Edmund Schwarz	V. 179	Dr	120	6	..	..	..	..	..	..	J. ½	D. S	Water has "iron" taste.FT.
36J2	Robert Weber	V. 179	Dg	25.7	28	25.7	..	..	..	20.2	4-10-53	S	S	Adequate supply.
36K1	Art Hamilton	V. 180	Dr	93	6	93	48	10	Gravel	R-40	May 1949	T. 3	D. S	Pumped 4+ hr at 20 gpm, dd 10 ft. Supplies 6 homes. L.
36Q1	. . . .do. . . .	V. 180	Dr	220	8-6	80	..	..	Sandstone	R-40	Sept. 1942	T. 5	D	Yield 33 gpm. Inflammable gas bubbles in water. L, FT.
36R1	Frank Layton	V. 180	Dr	70	6	70	..	..	..	R-17	1947	J. ¾	D. S	Report very little dd after pumping all day with present pump. Water hard, contains "rust".
	T. 14 N., R. 4 W.													
2D1	E. Mason	V. 230	Dg	28	40	28	..	..	Shale, blue	R-12	July 1954	S	D	Goes dry in August. Water soft contains iron.
3D1	Earl Ingalls	V. 190	Dg	22	36	21	..	..	Sandstone, blue	R-14	August 1946	S. ½	D. S	Supply limited in summer. Iron in water. FT.
4C1	E. Manberg	V. 200	Dr	100	6	80	..	..	"Rock", white	11.1	7-28-54	J. ½	D. S	Water-bearing at 85 ft and 95 ft. Water soft.
4G1	Cal Ingalls	V. 200	Dr	80	6	32	..	..	Shale, blue	R-10	August 1944	P. ¾	D. S	Adequate supply. Water hard.
6G1	H. Southard	H. 280	Dr	54	6	54	..	..	..	..	..	J(?). ½	D. S	Adequate supply. Water soft.
6H1	D. Ruddell	V. 225	Dr	65	6	65	..	..	..	..	..	J. ½	D. S	Water soft, contains iron.
6L1	F. Barton	H. 265	Dr	65	6	65	..	..	..	25.6	7-28-54	J(?) ½	D. S	FT
8R1	G. O. Balsley	H. 320	Dr	22	6	22	..	..	..	R- 2	July 1954	S. ⅓	D	Pumps dry in late summer. Water soft.
13R1	Milo Adams	V. 260	Dg	17.7	48	18	..	..	"Rock" soft	12.4	7-29-54	S. ¼	D	Well dug in blue and brown soft rock and clayey shale. Pumps dry. Water hard.
15B1	Don Sherman	V. 285	Dg	23	30	23	..	..	..	..	..	S. ½	D. S	Adequate supply. Water soft.

Table 1.--Records of representative wells in Lewis County, Washington--Con.

Well no.	Owner or tenant	Topography, Altitude (feet)	Type of well	Depth of well (feet)	Diameter of well (inches)	Depth of casing (feet)	Water-bearing Depth to top (feet)	Water-bearing Thickness (feet)	Zone(s) Character of material	Water level Below datum (feet)	Water level Date	Pump, type- H. P.	Use	Remarks
	T. 14 N., R. 4 W.--Con.													
15C1	C. T. Setzer	V. 300	Dr	90	6	0	..	..	..	16.1	7-30-54	J(?), ½	D	Drilled 176 ft. Salt water at 176 ft. Well caved in at 90 ft. FT.
15Q1	V. E. Waltar	V. 295	Dg	13.0	36	..	..	..	..	2.3	. .do. .	S, ⅓	D	Goes dry in late summer.
15R1	Cliff Thayer	V. 290	Dg	22	36	22	..	..	Shale, blue	4.6	. .do. .	S, ½	D, S	Soil from 0-5 ft; fossiliferous hard blue shale 5-22 ft. Water soft.
16A1	C. E. Waltar	V. 305	Dr	20	6	20	..	..	..	R- 6	July 1954	P, ½	S	Encountered salt water at 165 ft, pulled back to 20 ft. Drilled through blue clay, mostly. Well almost dry in summer. Water hard, "rusty".
23N1	Ben Geiszler	V. 280	Dg	21	48	..	..	..	Clay, blue	8.5	7-30-54	S, ½	D, S	Pumps dry in summer. Water soft.
24H1	Gordon Nelson	V. 250	Dr	75	6	..	..	..	..	..	..	P, ½	..	Salt water at 90 ft; pulled back to 75 ft. Water unsuited for drinking; used for cooking.
25H1	A. C. Anderson	V. 220	Dg	27½	48	27½	27	..	Sandstone, white	R-17	August 1951	S	D	Sandstone, hard. Water hard.
36B1	H. Reed	U. 405	Dg	22.0	72	0	..	..	Clay, gray	14.8	7-29-54	S, ⅓	D	Adequate supply. Water soft.
36F1	R. Packwood	V. 225	Dr	23.8	6	22	..	..	Sand, black	6.5	. .do. .	S, ⅓	D	Shale overlies black sand. Supply inadequate. Water hard, "rusty", spring east of house on hillside.
36Q1	--Kelly	V. 200	Dr	60	6	..	..	..	..	..	..	J, ½	D	Adequate supply. Water hard.
36R1	C. Murrow	V. 195	Dg	28	24	28	..	..	..	..	..	S, ¾	D	Adequate supply. Water soft.
	T. 14 N., R. 5 W.													
1C1	C. E. Glasgow	V. 285	Dg	15	36	10	10	5	Shale, blue	R-10	July 1954	S. (H)	D	. . . . Do . . . .
12C1	Melvin Stacy	V. 400	Dg	26.4	36	26.4	..	..	Shale(?)	16.6	7-28-54	..	D	Pumps dry in summer. Water soft. "rusty".
12J1	L. E. Scherer	V. 320	Dg	16.5	30	18	17	1	Shale, blue, jointed	13.5	. .do. .	S, ½	D, S	Supplies two houses. Irrigates from creek.

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Well no.	Owner or tenant	Topography, Altitude (feet)	Type of well	Depth of well (feet)	Diameter of well (inches)	Depth of casing (feet)	Water-bearing zone(s) Depth to top (feet)	Water-bearing zone(s) Thickness (feet)	Water-bearing zone(s) Character of material	Water level Below datum (feet)	Water level Date	Pump, type-H. P.	Use	Remarks
	T. 14 N., R. 1 E.													
31J1	Lloyd Hildesheim	U. 495	Dg-Bd	32	30-8	23	..	..	..	9.7	4-15-53	S, ½	D	Dug 23 ft. bored to 32 ft. FT.
32L1	--Deskins	U. 580	Dr	39.4	6	..	..	..	..	3.8	.. do. ..	N	NU	FT.
32P1	Max Hopp	U. 610	Dr	175	..	40	..	..	..	..	..	N	NU	"No water" in drilling. L.
32P2 **	--Deskins See below	U. 580	Dg	15.1	36	2.5	..	..	..	2.4	4-15-53	S, (H)	NU	
	T. 15 N., R. 1 W.													
26M1	Alton Colvin	V. 250	Dr	111	4	108	..	..	Sand	R-10	..	J, ½	D, S	Drilled through clay, sandstone, sand. Water leaves white residue. Occasionally pumps sand. Coal 30-41 ft in a dry drilled well by barn.
27F1	W. H. Butterworth	V. 250	Dr	107	6	101	..	..	..	R- 0	Winter 1953	J, ½	D, S	Water at 45 ft. Pumped 1 hr at 10 gpm, dd 70 ft. Water soft. FT.
27F2	Paul Ryser	V. 240	Dr	39	6	35	..	..	..	R-15	..	J	..	Yield 7 gpm. Water has "mineral" taste, is brown, sometimes.
27G1	Leon Rector	V. 235	Dr	57	6	57	..	..	Sandstone	R-35	..	J, 1	D, S	Drilled through coal, "soapstone", "graystone", blue clay, coal, and sandstone successively. Water soft, Old 107 ft drilled well 500 ft east is uncased and yields hard water.
28B1	Joe Brotherson	V. 245	Dr	85	6	85	..	..	..	R- 3	Winter 1953	P	D, S	Coal from 50-65 ft. Casing perforated. Water hard, sometimes brown.
28F1	M. Bouchard	V. 255	Dr	..	..	..	..	..	..	Flows	6-23-54	P	D, S	Supplies four homes.
28M1	R. Teitzel	V. 260	Dr	130	2	90	..	..	..	R- 0	Winter 1953	J, ½	D	Report well has never gone dry. FT.
29M1	Nolan Peterson	V. 250	Dg-Dr	313	4	..	..	..	..	R-16	..	J, ½	D, S	Water very hard, has "mineral" taste. L.
**	T. 14 N., R. 5 E.													
17B1	U. S. Forest Service, Mineral Ranger Station	..	Dr	120	6	90	43 68 110	2 2 5	Sand and gravel Sand, coarse Clay, porous	R-12	10-16-49	S, 1½	D	Well located in Lewis County, but north of area mapped. Pumped 10 hr at 35 gpm, dd 5 ft. L.

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							Depth to top (feet)	Thickness (feet)	Character of material	Below datum (feet)	Date	H. P.		
	T. 15 N., R. 1 W.--Con.													
29L1	M. W. Jackson	V. 250	Dr	80	6	40	..	..	..	R-10	..	J, ¾	D, S	Pumps dry. Water hard.
29M1	Nolan Peterson	V. 250	Dg-Dr	313	4	..	..	..	..	R-16	..	J, ½	D, S	Water very hard, has 'mineral' taste. L.
30J1	R. W. Schoelkopf	V. 240	Dr	90	6	70	..	..	..	..	..	J, ¾	D	Sandstone from 10-35 ft. "Quicksand" at 60 ft. Yield 4 gpm. Water hard, contains iron.
30K1	M. Miller	V. 235	Dr	100	6	90	..	..	Sand, white	R- 4	..	J	D, S	Earthquake (1949) caused water to spout out of well. Fuels Branch of U.S.G.S. drilled 1100-ft test well across road in 1948(?).
30R1	N. Peterson	V. 240	Dg	19	48 by 48	..	..	..	..	R-11	August 1953	S, (H)	D	Water hard and brown in summer. Unused springs about ¾-mi south on property.
34N1	A. L. Salzer	V. 260	Dg	12	..	..	..	..	..	R- 6	June 1954	S, ¼	D, S	Report well has never gone dry. Water soft.
	T. 15 N., R. 2 W.													
25E1	Ben Meyer	V. 245	Dg	24	7	..	..	..	Clay	R-10	..	S, ½	D	Pumped 20 min at 5 gpm, dd 14 ft. Well always dry in Oct. Water hard.
26H1	R. McClure	V. 240	Dg	26	..	..	..	..	..	..	..	S, (H)	D	Encountered coal. Water very hard, turns brown. Limited yield.
26K1	A. L. Sward	V. 240	Dr	119	4	..	119	..	(Sand, fine)?	R-70	..	J	D, S	Drilled in rock from 40-110 ft. Pumps some fine sand. FT.
26N1	H. F. Johnson	V. 225	Dr	55	8	55	55	..	Sand	R-14	..	J, ¼	D	Water soft. L.
26Q1	R. G. Reynolds	V. 235	Dr	43	5	30	..	..	. . . .do. . . .	R-10	..	J, ½	D, S	Yield 3 gpm. Water hard.
27B1	M. S. Wood	V. 250	Dr	60	..	..	..	..	..	..	..	J, ½	..	Water hard, has "iron" taste.
27F1	H. W. Sellards	V. 230	Dg	20	36 by 36	..	..	..	Sand(?)	R-10	..	S, ½	D, S	Supply inadequate and water "sandy" in summer.
27M1	W. R. Gilkey	V. 225	Dg	20	36 by 36	..	..	..	Gravel(?)	R-10	..	S, ½	D, S	Adequate supply. Water soft.

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	T. 15 N., R. 2 W.--Con.							
27M2	J. A. Wakefield	V, 225	Dn	25	2	25	..	..
27N1	L. Van Ronk	V, 205	Dr	47	6	..	..	..
27N2	L. Van Ronk	V, 190	Dr	49.6	8	..	..	..
27N3	W. Blue	V, 190	Dr	29	4	29	12	17
27P1	J. D. DeFreece	V, 190	Dn	20	1½	20	10	10
27Q1	E. Hazelwood	V, 190	Dr	33	..	..	..	..
27R1	D. F. Hopkins	V, 205	Dr	125	6	..	..	..
28E1	J. W. Ulmer	H, 308	Dr	130	6	100	..	..
28K1	L. Albough	V, 205	Dr	27	6	27	..	..
28L1	E. G. Ward	V, 250	Dg	25	8	..	..	..
28M1	O. Lewis	V, 250	Dr	52	6	..	..	..
28M2	Country Market	V, 260	Dn	35	2	35	..	..
28M3	F. Etter	V, 240	Dr	38	6	..	..	..
28M4	L. Stark	V, 240	Dg	25	36 x 36	..	..	..

wells in Lewis County, Washington--Con.

Character of material	Water level: Below datum (feet)	Water level: Date	Pump, type-H. P.	Use	Remarks
"Quicksand"	R- 10	Summer 1953	S, ¼	D	Water hard.
Sand	R- 13	June 1954	J, ¾	D, S	Yield 17 gpm. Water bubbled over top of casing during earthquake. FT.
. . . .do. . . .	13.1	6-23-54	N	NU	"Quicksand" at 10 ft. and drilled into silt at 50 ft. Pumped 60 gpm, dd 32 ft. Intended for irrigation use, but pumps silt.
Gravel and fine sand	R- 12	June 1954	S, ½	D, S	Drilled through fine sand to 29 ft.
"Quicksand"	R- 8	..	S, ¾	D, S	Sandy loam 0-10 ft. Water soft.
..	R- 7	..	S, ¼	D	Water slightly hard.
..	R- 20	..	J	D	Water tastes salty, also tastes strange. FT, Temp 54.
Gravel	R- 80	Fall 1953	J, ¾	D, S	Water soft.
. . . .do. . . .	R- 11	Winter 1953	S, ½	D	Pumped 1 hr at 27 gpm, dd 4 inches, water soft. Union Oil Co. drilled test hole in pasture north of house.
. . . .do. . . .	R- 15	..	S	D	Water hard. Union Oil Co. drilled test holes through blue clay and blue gravel, on property.
..	R- 30	1948	J, 1½	D	FT.
Gravel	R- 20	..	J, ¼	C	Water hard.
. . . .do. . . .	..	..	J, ¼	D	Water slightly hard, "rusty".
. . . .do. . . .	R- 19	..	S, ¼	D	Brown clay 0-10 ft, overlying blue clay and gravel. Pumped 4 hr at 6 gpm, dd 6 ft. Water soft.

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	T. 15 N., R. 2 W.--Con.													
28N1	J. Monaghan	V. 220	Dn	37	6	..	..	..	Sand	R- 10	..	J. ½	D	Water soft.
28N2	H. Gibson	V. 220	Dn	18	4	18	..	..	Gravel	R- 12	..	S. ½	D	Water hard, has "iron" taste.
28N3	C. D. Russell	V. 200	Dr	30	6	30	..	..	. . . .do. . . .	..	..	J. ½	D	Water soft. Old 15-ft driven well had adequate yield prior to earthquake.
28N4	D. O. Cooley	V. 210	Dr	36	5	..	..	..	..	R- 9	1953	.. 1	D,Irr	Pumped 25 gpm, dd 3 inches.
28R1	M. L. Dunlap	V. 200	Dg	26	36 by 36	26	..	..	. . . .do. . . .	R- 20	..	S. ½	D	Water soft.
29B1	L. Lowery	H. 300	Dg	17	..	..	..	..	Sandstone	R- 2	Winter 1953	S. ½	D	Occasionally goes dry in Aug. Water slightly hard.
29H1	J. F. Sidwaski	V. 220	Dn	20	6	20	..	..	Gravel	R- 14	..	S. ½	D, S	Well driven through sand and gravel. Water level low in summer after earthquake. Water soft.
29J1	L. J. Proctor	V. 215	Dr	40	6	40	..	..	. . . .do. . . .	R- 27	April 1949	J. 3	D, S	Drilled 100 ft, pulled back to 40 as insufficient water at 100 ft. Water-bearing at 33 ft. Pumped 32 gpm, dd 5 ft. FT.
29J2	F. Ewers	V. 220	Dr	35	6	..	..	..	. . . .do. . . .	..	..	J. ½	D	Water soft. Old driven 42-ft well yields very hard brown water.
29K1	T. E. Martin, Jr.	V. 210	Dg	26	48 by 48	..	..	..	. . . .do. . . .	R- 20	Sept. 1941	S. ⅓	D	Drilled through sand and gravel.
29L1	Stoker Mining Co.	H. 305	Dr	401	4	0	..	..	..	..	..	N	NU	U. S. Geol. Survey test hole. Plugged. L.
29Q1	C. Cheney	V. 205	Dn	..	1½	..	..	..	..	..	..	S. ½	D	Water tastes of iron. FT.
29Q2	F. Williams	V. 195	Dr	52	6	52	..	..	"Quicksand"	Flows	..	J. ½	NU	Water hard, has rust color.
29Q4	T. E. Martin	V. 205	Dg	13	48	..	9	4	Gravel, fine	11.0	7- 1-54	..	D	Soil and brown sand 0-9 ft, fine gravel 9-13 ft.

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	T. 15 N., R. 2 W.--Con.													
29R2	--Conrad	V. 220	Dr	59	6	..	..	..	..	28.4	6-30-54	J. ½	Irr	Water has "iron" and "sulphur" taste. FT. Temp 53.
29R3	M. Huntington	V. 215	Dr	33	6	33	..	..	Gravel	R-18	1951	S. 1	D	Water soft.
29R4	--Hamstad	V. 210	Dr	40	6	40	..	..	. . . .do. . . .	R-30	1950	P. ¾	D	Water slightly hard.
29R5	E. Ambeau	V. 220	Dr	31	6	31	..	..	. . . .do. . . .	19.1	6-30-54	S. ½	D	. . . . De . . . .
30N1	E. Kuper	V. 165	Dr	45	6	45	..	..	Gravel, fine	R-20	1952	T. 5	D, Irr	Water soft, leaves iron stain.
30N2	A. L. Pattee	V. 167	Dr	63	6	63	..	..	..	R- 5 R-20	Jan. 1954 June 1954	J. ¾	D	Water soft.
30P1	U.S.G.S. Fuels Branch	V. 200	Dr	600+	..	..	..	..	..	Flow	Jan. 1950	N	De	Test well; now covered by new highway. Water salty, very hard, effervesced. FT
30Q1	C. McLaughlin	H. 325	Dr	300	8	..	..	..	..	R-147	Aug. 1953	P. 1½	D	Water has "iron" taste. FT. Temp 56.
31B1	J. M. Holladay	V. 190	Dr	53	6	53	..	..	..	R-20	May 1945	J. 2	D, Irr	Yield 40 gpm.
31B2	E. Blair	V. 200	Dr	60	6	55	..	..	Sand	..	..	J. ½	D	Yield 6 gpm. Water soft. Report water level in old 22-ft dug well was 7.0 ft below land surface.
31C1	H. Watilo	V. 167	Dr	55	8	..	..	..	Sand	25.7	7- 2-54	J. ¾	D	Water soft.
31C2	J. Crowley	V. 167	Dr	53	6	53	..	..	Gravel, fine	R-12	1947	J. ½	D, Irr	. . . . De . . . .
31C3	G. Dean	V. 165	Dr	53	6	53	..	..	Sand	R-22	July 1954	J. ½	D	. . . . Do . . . .
31C4	W. Nelson	V. 165	Dg	33	48 by 48	..	..	..	..	R-10	Spring 1954	J. ½	D, Irr	Supply adequate for domestic use only. Water soft; "rusty" when water level low.
31D3	F. Seymour	V. 165	Dr	52	6	52	..	..	Gravel	R-25	..	J. ¾	D, Irr	Water soft.
31D4	W. Bailey	V. 165	Dr	50	6	50	..	..	. . . .do. . . .	R-28	Spring 1954	T. 5	Irr	. . . . Do . . . .
31E1	E. Nelson	V. 166	Dg	30	48 by 48	..	..	..	. . . .do. . . .	..	..	J. 1	D	Goes dry in dry summers. Water hard, leaves "rusty" stain.

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	T. 15 N., R. 2 W.--Con.													
31E2	E. Scott	V. 166	Dr	53	6	..	..	..	..	16.5	..	J. 1	D	Water soft, leaves "rusty" stain. Report old 33-ft dug well had same water level.
31E3	R. Huntington	V. 166	Dr	52	6	..	..	..	Gravel	..	..	J. ¼	D,Irr	Water soft, leaves "rusty" stain.
31E4	G. Wasson	V. 166	Dr	53	7	52	..	..	....do....	14.8	7- 2-54	J. ¼	D	Water soft.
31E5	M. D. Almy	V. 166	Dr	57	6	57	..	..	Sand and gravel	R-17	3-27-54	T. 2	D, Irr	Sand and gravel 0-57 ft.
31E6	O. Olson	V. 166	Dr	64	6	..	..	..	Gravel and clay	R-17	Winter 1954	T. 3	D, Irr	FT.
31E7	J. Bailey	V. 166	Dr	50	6	..	..	..	Sand	..	..	J. ½	D, Irr	Water soft.
31E8	J. Spiehart	V. 166	Dg	30	48 by 48	30	..	..	Gravel	..	..	J. 1	D	.... Do ....
31F1	R. Beers	V. 166	Dr	52	6	..	..	..	..	25.7	7- 1-54	J. 1	D, S	.... Do ....
31F2	Sam Helgerson	V. 166	Dr	115	6	112	..	..	..	R-45	1949	P. ¼	D, S	Water hard, has "coal" taste.
31F3	E. Neuert	V. 166	Dr	51	6	51	..	..	Gravel and sand	R-16	Winter 1953	J. 1	D	Soil from 0-3 ft, gravel 3-51 ft. Tested 30 gpm. Water soft.
31F4	J. Luman	V. 166	Dr	60	6	60	..	..	Gravel	..	..	J. 1	D, Irr	Well deepened from 45 ft. Water hard, "rusty".
31F5	Pacific Sand & Gravel Co.	V. 166	Dr	112	12	112	43	40	Gravel and sand	R-32	8-22-46	T. 30	Ind	Pumped 4+ hr at 250 gpm, dd 42 ft. Used in washing sand and gravel. L. FT.
31F6	Lewis County	V. 166	Dr	70	6	..	..	..	Gravel	17	7-14-54	N	NU	Adequate, soft.
31H2	W. Halliday	H. 360	Dg	35	48 by 60	0	..	..	..	R- 4	..	N	Irr	Overflows in winter.
31L1	L.A. DeVore	V. 167	Dr	48	6	..	..	..	Gravel	R-19	Summer 1953	J. 1	D	Can be pumped dry. Water soft.
31L2	D. DeVore	V. 168	Dr	64	6	64	..	..	....do....	R-19	Spring 1954	J. ¾	D	FT.
31L3	Pacific Sand & Gravel Co.	V. 168	Dg	50	60 by 60	..	..	..	Sand	R-30	..	S. (H)	D	Water hard.
31L4	N. A. Bishop	V. 169	Dr	57	6	57	33	24	Sand and gravel	R-33	12-16-52	T. 3	D, Irr	Pumped 4 hr at 50 gpm, dd 7 ft. Water soft, has clay-brown color. L.
31M2	W. Foster	V. 167	Dr	52	6	52	48	4	....do....	R- 6	..	J. ½	D	Water soft.

Table 1.--Records of representative wells in Lewis County, Washington--Con.

Well no.	Owner or tenant	Topography, Altitude (feet)	Type of well	Depth of well (feet)	Diameter of well (inches)	Depth of casing (feet)	Water-bearing zone(s)		Water level		Pump, type-H. P.	Use	Remarks
							Depth to top (feet)	Thickness (feet)	Character of material	Below datum (feet)	Date			
	T. 15 N., R. 2 W.--Con.													
31M3	H. Skipper	V. 166	Dr	61	8	..	..	..	..	..	..	J. ½	D, Irr	Adequate supply, water soft.
31M4	..	V. 166	Dr	50	6	..	..	..	Gravel	..	..	J. ½	D	Water level in old 30-ft dug well was 6 ft from land surface in winter and 28 ft in summer.
31N1	F. M. Moses	V. 170	Dr	53	6	53	25	28	Sand and gravel	R-18	5-28-50	C. 5	Irr	Pumped 4+ hr at 100 gpm, dd 10 ft. Water soft. L.
31N2	E. Zalonis	V. 170	Dn	25	1¼	25	..	..	..	..	..	S. ½	D	Adequate supply.
31N3	E. Witherall	V. 168	Dn	28	1¼	28	..	..	Gravel, fine	R-26	Sept. 1953	S. ¼	D	.... Do ....
31P1	C. H. Smith	V. 170	Dr	43½	4	..	..	..	Sand	R-10	Spring 1944	J. ¼	D	Adequate supply. Water soft.
31P2	--Damme	V. 172	Dr	42	6	42	..	..	Sand and gravel	16.6	7- 1-54	J. 1	D	Water soft, has rusty color.
31Q1	S.W. Wash. Livestock Marketing Association	V. 175	Dr	60	6	60	25	35	....do....	R-25	9-10-46	..	Ind	Sand and gravel 0-60 ft. Bailed 4+ hr at 45 gpm, dd 6 ft. Supplies slaughterhouse.
32A1	H. Johnson	V. 200	Dn	18	1½	18	..	..	Gravel(?)	..	..	S. ½	D	Water soft.
32A2	R. Hughes	V. 200	Dn	33	1½	33	..	..	....do....	..	..	J. ½	D	.... Do ....
32B1	G. Nickerson	V. 200	Dr	42	6	..	..	..	....do....	..	..	J. 2	D	Water hard, has rusty color. Water level in old 20-ft dug well was 8½ ft below land surface.
32B2	A. Taylor	V. 205	Dg	17	48	17	14	2	Gravel	12.2	6-30-54	S. ¾	D	Gravel 0-16 ft; well bottoms on "hardpan", supply usually adequate. Water soft, has rusty color.
32G2	W. Burlingame	V. 195	Dn	12	1½	12	..	..	....do....	..	..	S. ¼	D	Adequate supply. Water has rusty color.
32G3	G. Groshong	V. 195	Dr	36	6	36	..	..	....do....	R-20	1951	T. 5	Irr	Adequate supply. Water soft.
32G4	T. R. Parrish	V. 190	Dg	26	84 by 84	26	..	..	Gravel, fine	R-10	June 1954	S. 1¼	D, S	Encountered coarse gravel.
32G5	....do....	V. 193	Dr	59	10	59	50	9	Gravel and sand	R- 3	1-31-51	C. 5	Ind	Pumped 1 hr at 110 gpm, dd 9½ ft. Pumped 1 hr at 150 gpm, dd 12½ ft. L.

Table 1.--Records of representative wells in Lewis County, Washington--Con.

Well no.	Owner or tenant	Topography, Altitude (feet)	Type of well	Depth of well (feet)	Diameter of well (inches)	Depth of casing (feet)	Water-bearing Depth to top (feet)	Water-bearing Thickness (feet)	Character of material	Water level Below datum (feet)	Water level Date	Pump, type H. P.	Use	Remarks
	T. 15 N., R. 2 W.--Con.													
32H2	J. Madsen	V. 196	Dn	25	2	25	..	..	Gravel(?)	R-13	1952	S. ½	D	Well driven mostly in gravel.
32J3	F. Loy	V. 196	Dn	27	1½	27	..	..	Sand and gravel	R-14	Summer 1953	C. 1	D	Sand and gravel 0-27 ft. Pumped 35 gpm.
32K1	Helmer Nyman	V. 185	Dg	20	48 by 48	20	..	..	Gravel	15.6	6-30-54	S. ½	D. S	Adequate supply. Water hard.
32K2	W. P. Johnson	V. 185	Dr	34	6	34	30	4	. . . .do. . . .	9.1	. .do. .	S. ¾	Irr	Adequate supply. L.
32K3	Helmer Nyman	V. 185	Dr	60	6	60	56	4	Gravel, fine	R- 6 R-10	2- 8-51 6-30-54	T. 2	Irr	Pumped ½ hr at 75 gpm, dd 6 ft. Water hard. L.
32N1	Alvin Taylor	V. 183	Dr	41.8	6	..	..	..	..	11.2	4- 8-53	J. 2	Irr	Adequate supply. Water "rusty".
32Q1	R. N. Simpson	V. 185	Dr	69	6	..	..	..	..	11.8	4- 8-53	J. ½	D	Adequate supply.
32Q2	M. J. Martinell	V. 185	Dg-Dr	41	6	41	33	8	Gravel	6.1	4- 9-53	J. ½	D	Well dug to 29 ft, later drilled to 41 ft. Yield 174 gpm. L.
32Q3	C. R. Howe	V. 185	Dr	40	6	40	..	..	..	..	..	P. ¼	D	Report well has never been pumped dry. FT.
32Q4	D. Edwards	V. 185	Dg-Dn	41	6	41	..	..	Gravel	R-20	Summer 1947	J. ½	D	Adequate supply. Dug to 20 ft; Went dry in 1947 and driven to 41 ft.
32R1	W. F. Juneman	V. 187	Dr	41	6	41	..	..	Gravel, fine	14.6	4- 9-53	C. 3	Irr	Report dd 2 ft when pumping 20(?) gpm.
32R2	. . . . do	V. 187	Bd	20.4	7	20	..	..	..	14.9	. .do. .	N	NU	Well located under house.
33C1	H. E. Hamilton	V. 200	Dg	12	..	..	..	..	Sandstone	R- 2	..	G	D	Well has never gone dry. Water hard.
33D1	C. R. Linderman	V. 200	Dr	27	6	27	20	7	Gravel, fine	R- 8	1948	C. 3	Irr	Used also for fire protection. Pumped 4+ hr at 60 gpm, dd 19 ft. Water soft. L.
33D2	D. Meredith	V. 198	Dr	35	6	..	..	..	..	R- 4	6-25-54	J. ½	D	Adequate supply. Water slightly hard.
33D4	R. Bullock	V. 198	Dr	32	8	32	..	..	Sand and gravel	R- 8	August 1953	S. ½	D	Adequate supply. Water soft.
33E1	Mrs. E. Wolff	V. 195	Dr	32.7	6	33	28	5	Gravel	8.0	6-30-54	C. 1½	D. S. Irr	Pumped 4+ hr at 30 gpm, dd 15 ft. H.

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Well no.	Owner or tenant	Topography, Altitude (feet)	Type of well	Depth of well (feet)	Diameter of well (inches)	Depth of casing (feet)	Water-bearing zone(s)		Water level		Pump, type H. P.	Use	Remarks
							Depth to top (feet)	Thickness (feet)	Character of material	Below datum (feet)	Date			
	T. 15 N., R. 2 W.--Con.												
33E3	C. Bombard	V, 195	Dn	9	¾	9	..	..	Gravel	R- 3	..	S, ½	D	Adequate supply. Water soft.
33E4	C. G. Blanchard	V, 200	Dr	34½	6	35(?)	12	25	. . . .do. . . .	R- 12	Summer 1953	J, ½	D	L.
33F1	E. L. Peters	V, 197	Dn	24	1½	24	..	..	. . . .do. . . .	..	..	S, ½	D, S	Adequate supply. Water hard.
*33M1	M. Fasano	V, 192	Dn	25	1½	25	..	..	. . . .do. . . .	..	..	S, ¼	D	Adequate supply. Water soft.
33M2	I. Powell	V, 192	Dn	19	2	19	..	..	..	R- 15	1952	S, ¼	D	. . . . Do . . . .
*33G1	J. E. Boyetwits	H, 230	Dg	10	96 by 72	10	..	..	..	1.0	6-25-54	B, (H)	D	. . . . Do . . . .
34J1	A. B. Dace	U, 250	Dr	201	4	0	..	..	Sand	R- 0	10-26-50	N	NU	U. S. G. S test hole. Plugged. L.
34K1	H. B. Smith	H, 440	Dr	245	6	208	196	..	Sandstone(?)	..	..	P, 1	D, S	Upper Eocene micro fossils in material at 245 ft. Water hard, leaves yellow residue.
34L1	R. M. Wigley	U, 430	Dg	32	48 by 48	..	..	..	..	R- 15	..	J, ⅓	D	Well bottoms on "hardpan". Fossil wood found in clay at 5½ ft. Water soft; red in summer.
35A1	W. J. Allen	V, 220	Dr	54	5	45	..	..	Sand	R- 10	..	J, ½	D	Well bottoms on very hard rock. Water hard. Report water level constant seasonally. Yield 5 gpm.
35D1	Leo Messenger	V, 230	Dr	120	6	..	..	..	..	R- 10	..	J, ½	D, S	Adequate supply. FT.
	T. 15 N., R. 3 W.													
25C1	A. Arneson	V, 160	Dr	24	1¼	24	..	..	Gravel	R- 21	1934	S, ½	D	Water soft.
25E1	C. Wagner	V, 150	Dr	43	6	..	..	..	. . . .do. . . .	15.0	7- 7-54	P, ¼	D	Adequate supply. Water soft.
25G1	A. Aho	V, 162	Dr	56	6	56(?)	..	..	. . . .do. . . .	R- 26	Oct. 1949	J, 2	D, Irr	Pumped 4+ hr at 33+ gpm, dd 10 ft.
25K1	R. P. Damme	V, 163	Dr	50	6	50	..	..	. . . .do. . . .	21.0	7- 8-54	C, 3	Irr	Very little dd after pumping 36 hr.
25K2	L. Kitchel	V, 163	Dr	53	6	53	..	..	. . . .do. . . .	R- 26	Spring 1954	J, ¼	D	Adequate supply. Water soft.
25K3	A. Johnson	V, 162	Dr	50	..	..	..	..	. . . .do. . . .	..	..	J, ½	D	. . . . Do . . . .
25K4	G. Severin	V, 163	Dr	50	6	..	..	..	. . . .do. . . .	R-17	..	J, ½	D	. . . . Do . . . .

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Well no.	Owner or tenant	Topography Altitude (feet)	Type of well	Depth of well (feet)	Diameter of well (inches)	Depth of casing (feet)	Water-bearing zone(s) Depth to top (feet)	Water-bearing zone(s) Thickness (feet)	Water level Character of material	Water level Below datum (feet)	Water level Date	Pump, type H. P.	Use	Remarks
	T. 15 N., R. 3 W.--Con.													
25L1	J. Kope	V. 163	Dr	46.0	6	46(?)	..	..	Gravel	23.9	7- 7-54	J. 3	Irr	House supplied by 30-ft driven well.
25L3	E. L. Ticknor	V. 163	Dg-Dr	62	6	52	..	..	. . . .do. . . .	21.6 24.7	4-30-47 7- 7-54	J	D, Irr	Pumped 4 hr at 70 gpm, dd ½ ft. Casing starts at bottom 11-ft pit. Water soft.
25L4	V. F. Cain	V. 163	Dr	69	6	69	50	19	. . . .do. . . .	R-17	3- 7-50	..	D, Irr	Pumped 4 hr at 100 gpm, dd 2 ft. Water soft.
25L5	J. L. Clement	V. 163	Dr	62	6	62	..	..	. . . .do. . . .	R-29	5- 3-54	J. 3	D, Irr	Pumped 4 hr at 30 gpm, dd 10 ft.
25M1	(A.G.?) Futter	V. 160	Dr	25	4	25	..	..	. . . .do. . . .	R-20	Winter 1953	S	D	Adequate supply. Water soft.
25L6	E. Saunders	V. 163	Dr	36	6	36	..	..	. . . .do. . . .	R-15	Jan. 1950	J. ½	D	Pumped 1 hr at 20 gpm, dd 22 ft.
25M2	May Chowning	V. 160	Dn	40	1½	36	..	..	Sand	R-18	1949	P. ⅓	D	. . . . Do . . . .
25Q1	L. Seroshek	V. 163	Dr	48	6	48	..	..	Sandstone	..	..	J. ½	D, S	. . . . Do . . . .
25Q2	D. Frye	V. 164	Dr	55	7	..	..	..	..	30.7	7- 8-54	J 2	D	. . . . Do . . . .
25R1	L. O. Shult	V. 164	Dr	45	6	45	30	15	Gravel	R-30	5-15-50	T. 5	D, Irr	"Hardpan" 0-30 ft. Pumped 4 hr at 90 gpm, dd 2 ft. Water soft.
25R2	A. D. Foron	V. 164	Dg	28.0	42 by 42	..	..	..	. . . .do. . . .	9.2	5-17-47	S. (W)	D, S, Irr	Adequate supply. FT.
26A1	E. Sorenson	V. 145	Dr	30	6	..	..	..	Gravel, fine	11.7	7- 7-54	S. ½	D	Adequate supply. Water soft. H.
26A2	R. B. Ticknor	V. 145	Dr	30	7	30	6	24	Gravel, coarse	6.6 7.9	4-30-47 7- 8-54	..	Irr	Drilled through 4-6 ft of soil overlying gravel which coarsens to bottom of well. Casing perforated from 20-30 ft.
26F1	H. Pratley	V. 140	Dn	33	4	..	..	..	..	..	..	J. 1	D, S	Irrigates from river.
26G1	R. B. Ticknor	V. 146	Dg, Dn Dr	40	6	40	14	26	Gravel and sand	R-14	Winter 1953	G. 3	Irr	Dug 20 ft, driven to 30 ft, drilled to 40 ft. Pumped 24 hr at 60 gpm, dd 12½ ft. Water soft.
26K1	C. Bever	V. 147	Dn	22	1¼	22	..	..	..	..	..	S. ¼	D	Adequate supply. Water slightly hard.

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	T. 15 N., R. 3 W.--Con.													
26K2	I. Matheny	V. 147	Dr	26	6	..	..	..	..	19.8	7- 7-54	S. ½	D	Adequate supply. Water soft.
26K3	.... do	V. 146	Dr	53.5	8	53	28	25	Gravel and sand	R- 9 18.7	8- 5-51 7- 7-54	C. 5	Irr	Pumped 4 hr at 120 gpm, dd 2 ft. Water soft. L.
26H1	A. Setter	V. 150	Dr	40	6	40	..	..	Gravel	R-13	Summer 1947	C. 3	Irr	Adequate supply. Water soft.
26J1	A. O'Conner	V. 150	Dr	20	4	..	..	..	Sand	..	..	S. ¼	D	Water soft.
26J2	F. M. Watson	V. 150	Dr	35	8	35	30	5	Gravel and sand	R-15	1- 5-52	S. ½	D,Irr	Bailed 4 hr at 70 gpm, dd 4 ft. L.
27F1	L. D. Riley	U. 370	Dg	50	48	8	..	..	Clay and gravel	R-35	Sept. 1953	J. ½	D	Gravel in various stages of decay and varicolord. Overall color yellow-brown. Pumped 3 hr at 12 gpm, dd 15 ft. Iron in water.
27P1	Chester Adams, Jr.	U. 365	Dr	110	8	110	..	..	..	..	..	J. ½	D, S	Has pumped steadily 3 days at 15+ gpm. Water soft, contains iron.
27R1	C. Smalley	U. 340	Dg	30	48 by 72	..	..	..	..	17.5	7-15-54	S. ¼	D	Adequate supply. Water soft.
29D1	E. J. Faber	V. 160	Dg	24.1	48	..	..	..	..	18.7	7-27-54	S. ½	D	Limited supply. Water very hard, "rusty" when bailed. Uses two springs for cattle.
30B1	Russ Webster	V. 180	Dg	45	48	1	..	..	Sand and shale	34.1	..do..	J. ½	D, S	Well drilled almost entirely in shale, blue at bottom. Water hard, has "odd" taste.
30C1	Albert Adolfsen	V. 160	Dg	16	36	1	..	..	..	..	..	S. ¼	D	Went dry in Oct. 1952. Water hard
31H1	Gene White	V. 200	Dg	12	36 by 36	..	..	..	Clay, "shot"	2.7	7-27-54	S. ½	D	Limited supply. Water soft.
34C1	E. S. Andrews	V. 160	Dr	103	2	103	..	..	Sand(?)	R- 5	July 1954	S. ⅓	D, S	Well drilled in fossiliferous blue shale containing "clam" shells, bark, etc. Aquifer is 6 ft soft bed between 2 layers of hard shale. Pumped 17 gpm without much dd. Water has "sulphur" taste after long pumping.
34J1	C. Dye	V. 155	Dn	22	2	22	..	..	..	..	..	S. ¼	D	Adequate supply. Water hard, has "mineral" taste.

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	T. 15 N., R. 3 W.--Con.													
34J2	Don Sipes	V. 155	Dg	18	60	..	..	..	..	..	..	S, ¼	D	Adequate supply. Water soft.
34K1	J. Porn	V. 150	Dg	12	36	12	..	..	Sand(?)	7.5	7-14-54	S, ½	D	Water soft, contains some iron.
34K2	A. Wheeler	V. 150	Dr	70	4	70	..	..	..	R- 7	July 1954	J, ½	D	Adequate supply.
34L1	Fred Hilpert	V. 150	Dr	105	6	80	..	..	..	R-12	1945	J, ½	D	Water has "iron" taste, sometimes rusty color. FT.
34P1	O. H. Cannell	V. 160	Dg	10	72	10	..	..	Clay, blue	..	..	S, ¼	D	Adequate supply. Water soft.
34R1	Oscar Larson	H. 170	Dr	140	6	140	..	..	Sandstone	R-20	Summer 1943	J, 1½	D	Casing perforated. FT.
35B1	E. Canzotti	V. 155	Dr	33	6	33	..	..	Sand	R-13	. .do. .	T, 3	D, Irr	Adequate supply. FT.
35B2	G. Steffensen	V. 155	Dr	32	6	..	..	..	..	..	..	S, ¼	D	Adequate supply. Water soft.
35C1	--Hill	V. 155	Dg	24	36	..	..	..	Gravel	15.6	7-13-54	S, ½	D	Supply usually adequate. Water soft.
35C2	E. Stone	V. 155	Dn	21	1¾	..	..	..	Sand, coarse	R-15	July 1954	S, ¼	D	Adequate supply. Water soft.
35F1	F. Hewitt	V. 155	Dr	100	8	100	60	7	Sand, black	R-17-20	Summer 1953	J, ½	D	Supplies 3 homes. Water has rusty color on standing. FT.
35F4	R. Thompson	V. 155	Dr	60	6	..	..	..	..	..	..	J	D	Adequate supply. Water soft.
35G1	W. Groome	V. 155	Dr	50	6	40	..	..	Sand, blue	8.4	7-13-54	C, 3	Irr	Casing was pulled back to 40 ft.
35E2	. . . .do. . . .	V. 155	Dg	24	..	..	..	..	Gravel	R-21	July 1954	S, ¼	D	Goes dry in late summer. Water hard; rusty color when water stands.
35G3	D. Furrer	V. 155	Dr	40	6	..	..	..	..	14.5	7-13-54	J, 2	D, Irr	Adequate supply. Water soft.
35G4	C. Oglesby	V. 155	Dg	23	48 by 48	..	19	4	Gravel	R-19	Summer 1953	S, ¼	D	Dug through gravel 9-23 ft.
35G5	J. Pearson	V. 155	Dr	31	6	..	..	..	..	R-15	..	S, 1½	D	Adequate supply. Water soft.
35H1	L. Boggs	V. 155	Dg	17	84	17	..	..	Gravel	10.4	7-13-54	C, 3	Irr	Well in bottom of ravine 10 ft deep. Report dd 5 ft. Water hard.
35H2	A. Busek	V. 155	Dg	20	36	..	..	..	Sand and gravel	R-15	Sept. 1952	S, ½	D, S	Water soft. Irrigate from river.

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	T. 15 N., R. 3 W.--Con.													
35L1	M. Dunlap	V. 155	Dr	37	6	..	..	..	Gravel, fine	R-17 19.2	Summer 1953 7-13-54	J. ½	D	Water soft; rusty color in winter.
35L2	C. Deming	V. 155	Dr	34	6	34	..	..	Gravel	R-18	Sept. 1953	T. 1	D	Adequate supply. Water hard.
35L3	C. E. Wall	V. 155	Dr	20	6	20	..	..	. . . .do. . . .	20.1	7-13-54	S. ¼	D	Adequate supply. Water soft.
35L4	G. G. Ingalls	V. 155	Dr	68	6	64	64	4	Sand	R-17½	Summer 1940	J. 1	D	Pumped 22 hr at 13 gpm, dd 10 ft. L. FT.
35L6	L. Jordan	V. 155	Dr	19.5	4	..	..	..	Gravel	14.9	7-14-54	S. ¼	D	Water hard when water level low in fall.
35M1	G. Sturdevant	V. 155	Dg	17½	36	17½	..	..	. . . .do. . . .	14.5	7-13-54	C. 3	Irr	Adequate supply. Water soft.
35M2	F. Krause	V. 155	Dg	21	12	..	..	..	. . . .do. . . .	R-20	Sept. 1953	S. ½	D, Irr	Water level low in fall. Water hard.
35Q1	C. Johnston	V. 160	Dg	18	..	..	16	2	Sand	8.5	7-13-54	S. ¼	D	Adequate supply. Water soft.
36A1	W. Bailey	V. 165	Dr	51	6	51	..	..	Gravel	R-28	Oct. 1952	T. 2	D,Irr	. . . . Do . . . .
36A2	W. Ward	V. 165	Dr	47	6	47	..	..	. . . .do. . . .	R-22	Summer 1944	J. ½	D	. . . . Do . . . .
36A3	O. Gloyd	V. 165	Dr	48	1½	..	..	..	. . . .do. . . .	..	..	J. ½	D	. . . . Do . . . .
36A4	. . . .do. . . .	V. 165	Dr	55	2	..	..	..	. . . .do. . . .	23.6	7- 6-54	J. 1½	Irr	. . . . Do . . . .
36A5	E. Jeffers	V. 165	Dr	60	6	..	..	..	. . . .do. . . .	..	..	J. ½	D,S	. . . . Do . . . .
36B1	T. Hense	V. 164	Dn	32	1½	32	..	..	. . . .do. . . .	R-16	1948	S. ¼	D	. . . . Do . . . .
36B2	R. Whitman	V. 164	Dr	55	6	55	..	..	. . . .do. . . .	R-25	Aug. 1952	J. 1½	D, Irr	. . . . Do . . . .
36D1	F. Richter	V. 155	Dr	18	10	18	..	..	. . . .do. . . .	R-12	..	S. ¼	D	Digging irrigation well nearby whose yield at depth of 10 ft was 20 gpm.
36F1	--Hamilton	V. 160	Dr	52	6	52(?)	..	..	Sand and gravel	R-18	Aug. 1944	C. 1	D, S	Adequate supply. Water soft. Irrigates from Chehalis River with 2- 7½ HP pumps.
36F2	Leo Seifert	V. 163	Dr	54	7	54	37	17	Gravel, coarse	R-20 24.7	1-15-47 7- 9-54	C. 7½	D, S Irr	Pumped 4+ hr at 125 gpm, dd 26¼ ft. Report water level fluctuates seasonally from 15-29 ft below land surface. W/soft. L.

Table 1.--Records of representative wells in Lewis County, Washington--Con.

Well no.	Owner or tenant	Topography Altitude (feet)	Type of well	Depth of well (feet)	Diameter of well (inches)	Depth of casing (feet)	Water-bearing Depth to top (feet)	Water-bearing Thickness (feet)	Character of material	Water level Below datum (feet)	Water level Date	Pump, type H. P.	Use	Remarks
	T. 15 N., R. 3 W.--Con.													
36G1	D. S. Ward	V, 165	Dr	52	6	52	..	..	Sand and gravel	R- 27 24.2	10-12-52 7-12-54	C, 3	D, Irr	Sand and gravel 0-52 ft. Pumped 70 gpm, dd 8 ft. FT.
36H1	D. Reimer	V, 165	Dr	53	5	53	..	..	Gravel	R- 22	July 1944	T, 5	D, S Irr	Adequate supply. Water soft.
36H2	H. Cotaj	V, 165	Dr	47	6	47	..	..	. . . .do. . . .	..	..	J, ½	D	. . . . Do . . . .
36H3	J. Gehrman	V, 164	Dr	53	6	53(?)	47	6	. . . .do. . . .	R- 22	1945	J, ¾	D	Adequate supply. Water soft. L.
36J1	J. Goodwin	V, 166	Dr	52	6	..	..	..	Gravel	R-20	July 1954	J, ½	D	Adequate supply. Water soft.
36J2	J. Zandecki	V, 166	Dr	47	6	47	..	..	Sand and gravel	..	..	J, 1½	D, Irr	. . . . Do . . . .
36K1	Leo Seifert	V, 165	Dn	35	2	35	..	..	Gravel	..	..	J, ¼	D	. . . . Do . . . .
36K2	Clifford Reisinger	V, 164	Dr	54	8	54	38	16	Gravel, coarse	R-20 R-18	July 1943 1-15-47	T, 5	Irr	Pumped 4 hr at 125 gpm, dd 4 ft. L, A, FT. Temp 52.
36L1	R. W. Sloan	V, 164	Dr	44	6	44	40(?)	..	Gravel	29.1	7- 9-54	J, ½	D, Irr	Report clay and gravel 0-40 ft, "soapstone" 40-44 ft. Water soft.
36L2	K. Nielson	V, 163	Dr	54	5	54(?)	..	..	. . . .do. . . .	..	..	C, 3	Irr	Adequate supply. Water soft
36L3	P. M. Steelhammer	V, 163	Dr	43	6	43	18	25	. . . .do. . . .	18.1	7- 9-54	C, 5	Irr	Pumped 10 hr at 120 gpm, dd very little. Water soft. L.
36N1	Pete Nix	V, 163	Dr	65	8	65	..	..	. . . .do. . . .	R-13	1947	T, 5	Irr	Dd 1 ft pumping 4 hr a 120 gpm.
*36Q4	H. B. Ward	V, 166	Dr	40	5	40	..	..	. . . .do. . . .	R-22	Fall 1953	S, ½	D	Adequate supply. Water soft.
36Q1	J. Fogelsong	V, 166	Dr	30	8	30	..	..	. . . .do. . . .	R-25	Summer 1953	S, ⅓	D	. . . . Do . . . .
36Q2	G. Keesee	V, 165	Dn	51	2	51	..	..	Sand	R-20	Aug. 1950	P, ¼	D	Casing perforated.
36Q3	C. L. Stuart	V, 165	Dn	30	2	30	..	..	..	R-25	..	S, ¼	D	Adequate supply. Water soft.
36R1	H. Custer	V, 167	Dr	46	..	46	..	..	Gravel, fine	27.8	7- 8-54	J, ½	D	Adequate supply. Water slightly hard
36R2	J. Ross	V, 167	Dr	50	6	50	..	..	Gravel	..	..	J	D	Adequate supply. Water soft.
36R3	E. Maxon	V, 167	Dg	26	36 by 36	..	22	4	. . . .do. . . .	R-20	July 1954	S, ½	D	"Dirt" and gravel 0-22 ft. Supply limited in fall. Water soft.

Table 1.--Records of representative wells in Lewis County, Washington--Con.

Well no.	Owner or tenant	Topography, Altitude (feet)	Type of well	Depth of well (feet)	Diameter of well (inches)	Depth of casing (feet)	Water-bearing zone(s)		Water level		Pump, type	Use	Remarks
							Depth to top (feet)	Thickness (feet)	Character of material	Below datum (feet)	Date	H. P.		
	T. 15 N., R. 4 W.--Con.													
16R1	Charles Echo	V. 130	Dr	173	6	..	..	..	..	R-165	Summer 1950	N	NU	Report natural gas in well.
20J1	T. M. Saari	V. 145	Dg	25	48	25	..	..	Clay, blue	8.3	8- 3-54	S	D,S	Water hard "rusty". Went dry in 1952. FT.
20Q1	H. Glad	V. 145	Dg	12	36	12	9	3	. . . .do. . . .	9.3	. .do. .	S, ½	D	Report soil 0-9 ft, blue clay and wood 9-12 ft. Supply limited in Sept. Water soft. Drilled 85-ft hole encountered "no" water.
21C1	Harold Bingham	V. 170	Dr	187	..	..	..	..	..	..	..	N	De	Clay 0-25 ft; blue clay and shale 25-187 ft. Well yielded "no" water.
25A1	J. S. Fogelsong	V. 180	Dg	34	36	34	..	..	Shale, gray, jointed	R- 34	Aug. 1952	P, ¼	D	Adequate supply. Water hard, encrusts iron pipes rapidly.
25B1	William Kohse	V. 190	Dr	96	6	60	..	..	Sand, black	R- 25	July 1954	J, ½	D	Adequate supply. Water hard.
26K1	R. C. Hall	V. 175	Dg	8	30 by 30	..	..	..	..	R- 1	..	S, ¾	D	Goes dry in summer. Water soft.
26L1	G. W. Padham	V. 180	Dr	43	2	..	30	13	Clay and gravel	R- 3	Aug. 1954	S, ½	D	Water soft, leaves "rusty" stain.
30G1	Otto Hyyppa	V. 165	Dg	24	36	20	..	..	..	10.7	8- 3-54	S, ½	D	Water soft, brown in late summer.
30R1	W. H. Scott	V. 190	Dg	24	36	..	..	..	Clay, blue	R- 16½	July 1954	S, ½	D	Water soft. Stock supplied by 24-ft dug well.
32Q1	M. L. Rahm	V. 220	Dg	9	36	10	..	..	..	4.9	7-28-54	P	D, S	Water soft, has rusty color.
33P1	Hubert Wirkkala	V. 200	Dr	240	6	..	..	..	..	R-10	July 1954	N	NU	Report gasoline in water. Uses 8-ft dug well for domestic purposes, pumps 100 gpm from Lincoln Creek for irrigation.
34A1	E. Kosola	V. 200	Dg	28	40	..	..	..	Shale, blue	R-20	July 1954	S, ½	S	Water hard, has rusty color.
34H1	Watilo Bros.	V. 200	Dg	22.7	36	20	..	..	. . . .do. . . .	15.5	7-27-54	S, ½	D, S	Goes dry in Sept. Water soft, rusty.
34L1	Martin Huhta	V. 200	Dg	18.0	40	16	..	..	. . . .do. . . .	1.6	7-27-54	S, ½	D, S	Water hard, has rusty color.
34R1	Widell Bros.	V. 200	Dg	17	30	17	..	..	..	8.1	7-28-54	S, ½	D, S	Water is perched on blue shale. Well goes dry in Sept. Water hard.

Table 1.--Records of representative wells in Lewis County, Washington--Concluded

Well no.	Owner or tenant	Topography, Altitude (feet)	Type of well	Depth of well (feet)	Diameter of well (inches)	Depth of casing (feet)	Water-bearing zone(s)		Water level		Pump, type H. P.	Use	Remarks
							Depth to top (feet)	Thickness (feet)	Character of material	Below datum (feet)	Date			
	T. 15 N., R. 5 W.--Con.												
16J1	C. J. Grandorff	V, 150	Dg	11.4	60	..	..	..	..	8.2	8- 3-54	S, ¼	D, S	Water hard, has rusty color in summer.
21A1	J. Dix	V, 190	Dg	9	..	9	..	..	..	R- 4	July 1954	S, ½	D	Adequate supply. Water soft.
22M1	J. Danforth	V, 220	Dg	12	36	12	..	..	Shale, gray	R- 9	. .do. .	S, ¼	D	Well pumps dry. Water soft. Report water level fluctuates seasonally from 0-10½ ft. below land surface.
27C1	..	V, 320	Dg	15	36	..	..	..	"Rock", rust-red	R-10	. .do. .	S, (H)	D, S	Water occasionally has rusty color.

Table 2.--Logs of representative wells in Lewis County

11/1W-1D1. Frank Linwood. Altitude 260 ft. Dug by owner, 1947.

Materials	Thickness (feet)	Depth (feet)
Gravel, cobbles, and boulders, cemented. . . .	10	10
Gravel, fine; water. . . .	2	12
"Soapstone" (blue-gray clayey shale).	--	12+

11/1W-5H4. A. W. Peterson. Altitude 342 ft. Drilled by Frank Galivan, 1950.

Topsoil.	2	2
Clay.	2	4
Gravel, cemented.	2	6
Clay, some gravel	62	68
Gravel, clean.	2	70

Casing: 6-inch, set to 65 ft.

11/1W-6D1. Church of Latter Day Saints. Altitude 302 ft. Drilled by Charles Rubey, 1955.

Clay.	12	12
Gravel and "rocks", cemented. Water at 50 ft, enough for domestic use	39	51
Clay, green and blue. . .	89	140
Clay, blue.	61	201
Sand, blue, and chunks of rotten wood; water . . .	--	201

Casing: 6-inch, set to 201 ft.

11/1W-8E2. Town of Toledo. Altitude 240 ft. Drilled by Price, 1953.

Clay and gravel.	30	30
Clay, blue.	10	40
Silt, blue.	18	58
Sand, blue-gray	14	72
Clay, blue.	2	74
Sand, gray.	4	78
Clay, blue, heavy	52	130
Clay, blue; "soapstone" layers several ft thick.	245	375
Shale (cuttings showed grains of quartz and gray claystone).	10	385
Siltstone (cuttings showed equal numbers of grains of quartz and dark volcanic materials).	65	450

(continued next column)

11/1W-8E2-continued

Bits of shells observed.

Casing: 8-inch, set to 290 ft; yield 2 gpm, static water level 100 ft. Casing pulled back to 79 ft and perforated. Casing(final): 8-inch, set to 79 ft; perforated from 60-78 ft.

11/1W-9J1. E. F. Boone. Altitude 118 ft. Drilled by Frank Galivan, 1948.

Materials	Thickness (feet)	Depth (feet)
Silt.	3½	3½
Sand: water at 42 ft. . . .	38½	42
Clay, blue.	4	46

Casing: 6-inch, set to 46(?) ft.

11/1W-9L1. F. E. Foreman. Altitude 110 ft. Drilled by Wm. Price, 1955.

Topsoil.	2	2
Sand and dirt, brown. . . .	12	14
Gravel, cemented, gray. . .	19	33
Gravel, fine; water	5	38
Gravel, cemented, deep brown	2	40

Casing: 8-inch, set to 40 ft; perforated from 30-40 ft.

11/1W-12F1. E. J. Smith. Altitude 318 ft. Drilled by Wm. Price, 1945.

Loam.	11	11
Gravel, cemented.	19	30
Clay.	6	36
Gravel, cemented.	39	75
Gravel, fine, and sand; water	11	86

11/1W-16E2. Guy Bowan. Altitude 215 ft. Drilled by Dale MaGee, 1949.

Gravel, mostly cemented . .	52	52
Gravel; water.	3	55
Clay, blue.	101	156

Casing: 6-inch.

11/1W-16H1. Ernest Cooper. Altitude 240 ft. Drilled by Frank Galivan, 1953.

Topsoil, clay, some boulders	26	26
Gravel, cemented.	10	36
Gravel, loose; water. . . .	--	36+

Casing: 6-inch, set to 36 ft.

Table 2.--Logs of representative wells in Lewis County--Con.

11/1W-17A1. H. M. Shepardson. Altitude 110 ft. Drilled by Price, 1952

Materials	Thickness (feet)	Depth (feet)
Soil.	8	8
Gravel.	32	40
Clay, blue.	1	41

Casing: 6-inch, set to 40 ft.

11/1W-17L2. Rudolf Kline. Altitude 105 ft. Drilled by O. E. Erdman, 1933.

Materials	Thickness (feet)	Depth (feet)
Clay, sandy.	14	14
Sand and gravel.	31	45
Clay.	1	46
Clay and gravel.	1	47
Boulders and rocks. . . .	1½	48½
Clay.	129½	178
Clay, with sand and gravel streaks.	47	225
Shale.	10	235

Casing: 6-inch, set to 235 ft.

11/1W-20M1. L. Cunningham. Altitude 203 ft. Drilled by King Bros., 1929.

Materials	Thickness (feet)	Depth (feet)
Dirt.	12	12
Gravel, cemented.	20	32
Gravel, with scattered sand pockets; lower part, water-bearing.	38	70
Clay, blue.	--	70+

Casing: 6-inch, set to 70 ft.

11/1W-21D1. N. A. Kent. Altitude 220 ft. Drilled by Frank Galivan, 1953.

Materials	Thickness (feet)	Depth (feet)
Soil and clay.	8	8
Gravel, cemented. Water at 35-ft (static water level 10-12 ft). Water at base	46	54
Clay, blue, sticky. . . .	34	88
Sandstone: water (good yield) at 110-120 ft (static water level 30-40 ft	22	110
Shale, greenish-gray, constantly squeezed into drill-hole.	58	168
Sand, dark greenish-gray. Encountered inflammable gas at 170 ft.		

Casing: 6-inch, set to 165 ft.

11/1W-29D1. James Allon. Altitude 214 ft. Drilled by Bell, 1928.

Materials	Thickness (feet)	Depth (feet)
Clay.	22	22
"Hardpan"	20	42
Gravel and sand; water . .	6	48

Casing: 4-inch, set to 48 ft.

11/2W-9N2. Sam Leathers. Altitude 420 ft. Drilled by C. D. Roberts, 1954.

Materials	Thickness (feet)	Depth (feet)
Topsoil.	3	3
Clay, red.	7	10
Clay, yellow	20	30
Clay, yellow, and gravel. .	40	70
Boulder and clay.	5	75
Clay, white, soft, some sand	32	107
Gravel and sand, cemented .	10	117
Gravel and coarse sand; water	16	133
Shale.	45	178
Shale, sandy	2	180
Sandstone, hard.	3	183
Clay, blue.	7	190
Clay, dark gray	25	215
Shale, sandy.	72	287

Casing: 8-inch, set to 147 ft; perforated from 112-133 ft.

11/2W-11N1. K. R. Breidenstein. Altitude 295 ft. Drilled by C. D. Roberts 1951.

Materials	Thickness (feet)	Depth (feet)
Topsoil.	2	2
Clay, white.	18	20
Gravel, cemented.	17	37
Gravel and sand; water. . .	22	59
Shale.	5	64

Casing: 6-inch, set to 64 ft; perforated from 45 to 58 ft.

11/2W-15A2. Perry Zion. Altitude 265 ft. Drilled by C. D. Roberts.

Materials	Thickness (feet)	Depth (feet)
Clay, sticky, brown. . . .	10	10
Clay and gravel.	10	20
Gravel and sand, cemented .	8	28
Sand and gravel; water. . .	12	40
Clay, blue, and gravel. . .	6	46

Casing: 12-inch, set to 45 ft; perforated from 28 to 42 ft.

Table 2.--Logs of representative wells in Lewis County--Con.

11/2W-17E2. Russel Foreman. Altitude 205 ft. Drilled by Wm. Price, 1947. Memory log.

Materials	Thickness (feet)	Depth (feet)
Topsoil.	12	12
Gravel; water.	5	17
"Soapstone", yellow, and blue "hardpan" containing "clam shells"	122	139
Sand, white; water . . .	4+	143+
No record.	38-	181
"Mud bank"	1	182
No record, water-bearing	--	182+

Casing: 6-inch, set to 182 ft.

11/2W-20N1. William Schock. Altitude 180 ft. Drilled by Wm. Price, 1947.

Clay and gravel.	20	20
Basalt, black.	55	75

Casing: 6-inch.

11/2W-23G1. Sulo Kolemainen. Altitude 185 ft. Drilled by Wm. Price, 1951

Topsoil.	3	3
Clay, brownish yellow. .	13	16
Gravel, rotten	4	20
Gravel, clean; water . .	10	30
Clay, blue, sticky . . .	80	110

Casing: 12-inch, set to 34 ft, perforated from 22-34 ft.

11/2W-24Q2. Ed Ritzman. Altitude 110 ft. Drilled by Wm. Price(?) 1951(?).

Soil, clayey, bouldery. .	5	5
Sandstone, weathered . .	2	7
Bedrock(carbonaceous siltstone with coal streaks)	1	8
Sandstone, carbonaceous.	5½	13½
Conglomerate.	1	14½
Sandstone.	½	15
Conglomerate	2½	17½
Sandstone, some pebbles.	14	31½
Siltstone.	3	34½
Sandstone, fossiliferous	28	62½
Conglomerate.	2	64½
Sandstone.	8½	72
Conglomerate, fossiliferous	3	75

(continued next column)

11/2W-24Q2--continued

Materials	Thickness (feet)	Depth (feet)
Conglomerate.	6	81
Sandstone.	22	103
Conglomerate, fossiliferous	7	110
Sandstone, fossiliferous. .	57	167
Sandstone.	46	213
Conglomerate.	22	235
Sandstone.	10	245
Conglomerate.	12	257
Sandstone, fine-grained . .	86	343
Siltstone.	1	344
Sandstone, fine-grained . .	33	377
Siltstone, carbonaceous, with sandstone	35	412
Siltstone, carbonaceous, with sandstone streaks . .	156	568

11/2W-29P1. Northern Pacific Railway. Altitude 143 ft. Drilled by owner, 1949.

Clay, yellow.	5	5
Gravel and clay.	9	14
Shale, sandy.	6	20
Shale, sandy; water . . .	4	24
Shale, dry.	52	76
"Rock" (basalt?).	12	88
Shale, dry.	36	124
Sandstone; water.	62	186

Casing: 8-inch, set to 128 ft.

11/2W-30D1. E. D. Allen. Altitude 160 ft. Drilled by Oscar Keto, 1952.

Clay, yellow.	20	20
Sandstone, yellow.	15	35
Sandstone, blue.	20	55

Casing: 6-inch, set to 54 ft.

11/2W-32C1. Town of Vader. Altitude 140 ft. Drilled by Wm. Price, 1948.

Soil and clay.	20	20
Sandstone.	20	40
Basalt.	40	80
Sandstone; water.	140	220

Casing: 6-inch, set to 60 ft.

Table 2.--Logs of representative wells in Lewis County--Con.

11/2W-34R2. --Beyers. Altitude 160 ft. Drilled by Wm. Price, 1953.

Materials	Thickness (feet)	Depth (feet)
Topsoil	5	5
Silt	23	28
Gravel	12	40
Clay, blue, sandy, and water-bearing at base	8	48
Rock	12	60

Casing: 8-inch, set to 56 ft.

See next column

11/2W-36A4. / C. R. Calvin. Altitude 205 ft. Drilled by C. D. Roberts 1954.

No record	28	28
"Solid rock" (gravel, cemented)	3	31
Gravel, "washed"; water	7	38
"Solid rock" (basalt, dense, blue-black)	27	65

Casing: 8-inch.

11/1-16P1. Test hole. Altitude 316 ft. Drilled by U. S. Geol. Survey.

Soil, clayey	11	11
Sand, and silt, clayey	7	18
Sand and gravel	1	19
Bedrock (carbonaceous siltstone)	1	20
Lignite	⅔	20⅔
Conglomerate, pebble	5⅓	26
Claystone, tuffaceous	7½	33½
Claystone, sandy	17½	51
Siltstone, carbonaceous, with coaly fragments	9	60
Clay	2	62
Claystone with carbonaceous material	5	67
Lignite	½	67½
Siltstone, carbonaceous	6	73½
Lignite	½	74
Clay, gravel	14	88
Siltstone, carbonaceous	½	88½
Lignite	5	93½
Claystone	½	94
Siltstone, carbonaceous	2½	96½
Lignite	½	97
Siltstone, carbonaceous	1½	98½
Lignite	½	99
Siltstone, carbonaceous	6	105

(continued next column)

11/1-16P1.--continued.

Materials	Thickness (feet)	Depth (feet)
Lignite	½	105½
Siltstone, carbonaceous	1½	107
Lignite	1½	108½
Siltstone, carbonaceous, with lignite streaks	15	123½
Lignite	½	124
Siltstone, clayey	20	144
Conglomerate, pebble	32	176
Sandstone, carbonaceous	17	193
Siltstone, carbonaceous	4	197
Lignite	½	197½
Siltstone, carbonaceous	10	207½
Sandstone, pebbly	21½	229
Conglomerate, pebble	3	232
Tuff, lapilli	31	263
Siltstone, clayey	65	268
Siltstone, carbonaceous	62	390
Tuff, lapilli	14	404
Siltstone, carbonaceous, with sandy interbeds	26	530
Tuff, lapilli	4	534
Agglomerate	6	540

11/2W-36A4. C. R. Calvin. Altitude 205 ft. Drilled by C. D. Roberts, 1954.

Topsoil	2	2
Clay, yellow	8	10
Gravel and sand, cemented	15	25
Sand and fine gravel; water	2	27
Sand and coarse gravel; water	13	40
Shale (basalt?)	25	65

Casing: 8-inch, set to 65 ft; perforated from 27-40 ft.

Table 2.--Logs of representative wells in Lewis County--Con.

11/1-19K1. A. F. Schmit. Altitude 300 ft. Drilled by Frank Galivan, 1952

Materials	Thickness (feet)	Depth (feet)
Topsoil and clay.	12	12
Clay, alternately blue and yellow.	88	100
Sand, blue, water-bearing, and clayey gravel. . . .	12	112

Casing: 6-inch, set to 112 ft.

11/1-20C1. Test hole. Altitude 330 ft. Drilled by U.S. Geol. Survey.

Materials	Thickness (feet)	Depth (feet)
Soil.	14	14
Gravel.	3	17
Sand and small gravel . .	6	23
Bedrock (blue clay) . . .	16	39
Sandstone, with some clay	1	40
Siltstone, clayey. . . .	2	42
Sandstone, fine-grained .	7	49
Siltstone, clayey. . . .	15	64
Carbonaceous material . .	1	65
Siltstone, clayey. . . .	14	79
Lignite.	½	79½
Siltstone, carbonaceous .	½	80
Sandstone, fine-grained .	16	96
Siltstone, clayey. . . .	16	112
Siltstone, carbonaceous, with coaly streaks. . .	2	114
Lignite.	½	114½
Bone.	½	115
Lignite	½	115½
Sandstone, carbonaceous .	2½	118
Lignite.	2	120
Siltstone, carbonaceous .	1½	121½
Clay.	5½	127
Siltstone, carbonaceous .	1	128
Lignite.	1½	129½
Siltstone, carbonaceous .	2	131½
Bone.	1½	133
Siltstone, carbonaceous, with coaly streaks . . .	3	136
Siltstone, clayey. . . .	1	137
Sandstone, fine-grained .	23½	160½
Lignite with small siltstone partings.	2½	163
Siltstone, carbonaceous, with coaly streaks . . .	½	163½
Sandstone, carbonaceous, with coaly streaks. . .	¼	163¾
Lignite.	¼	164

(continued next column)

11/1-20C1.--continued

Materials	Thickness (feet)	Depth (feet)
Sandstone, carbonaceous, with coaly streaks. . . .	3	167
Lignite.	3½	170½
Siltstone, carbonaceous. .	1	171½
Sandstone, clayey.	13½	185
Siltstone, carbonaceous. .	10	195
Sandstone, clayey.	16½	211½
Siltstone, clayey.	11½	223

11/2-2N1. A. J. Mills. Altitude 1,035 ft. Dug by owner.

Materials	Thickness (feet)	Depth (feet)
Loam, black.	4	4
"Soapstone" (gray shale). .	20	24
Sand and gravel; water . .	1	25

12/1W-4N3. Paul D. Engen. Altitude 540 ft. Drilled by Frank Galivan, 1953

Materials	Thickness (feet)	Depth (feet)
Topsoil.	6	6
Clay, yellow.	35	41
"Hardpan".	25	66
Gravel, cemented.	20	86
Gravel, clean, smooth, with organic material; water .	6	92

Casing: 6-inch.

12/1W-5E1. A. A. Singer. Altitude 525 ft. Drilled by Frank Galivan, 1951

Materials	Thickness (feet)	Depth (feet)
Soil and clay.	10	10
Gravel and sand, cemented, no depth-decrease in rottenness of gravel.	70	80
Sandstone, coarse, friable, gray-green.	20	100
Gravel, hard, clean, and black sand; water	28	128

Casing: 6-inch, set to 128 ft; perforated from 105 to 125 ft.

12/1W-5G2. Rex Briem. Altitude 528 ft. Drilled by Frank Galivan, 1950.

Materials	Thickness (feet)	Depth (feet)
Topsoil.	2	2
Clay.	23	25
Gravel, cemented.	10	35
Sand, black.	10	45
Gravel, cemented.	27	72
Gravel (water)	5	77

Casing: 6-inch, set to 68 ft.

Table 2.--Logs of representative wells in Lewis County--Con.

12/1W-6L1. C. E. Chappell. Altitude 505 ft. Drilled by C. D. Roberts 1952.

Material	Thickness (feet)	Depth (feet)
Topsoil	4	4
Clay	66	70
Gravel and clay, slightly cemented	20	90
Gravel, some sand; water	16	106

Casing: 6-inch, set to 106 ft.

12/1W-9A2. Henry Lucas. Altitude 561 ft. Drilled by King Bros., 1947.

Clay, yellow, some cemented gravel	80	80
"Hardpan", gray, very hard	8	88
Sand, fine, white	2	90
Gravel; water	2	92

Casing: 6-inch, set to 92 ft.

12/1W-13J2. Warren Smith. Altitude 462 ft. Drilled by Wm. Price, 1951.

Topsoil	5	5
Silt	15	20
Gravel, cemented; water at 80 ft.	80	100
Sand, blue-gray, fine; water	15	115
Gravel, fine, and sand; water	5	120

Casing: 12-inch, set to 120 ft; perforated from 24 to 30 ft, from 40 to 50 ft, from 80 to 90 ft, and from 100 to 120 ft.

12/1W-16K2. Wash. State Parks & Game Commission. Altitude 400 ft. Drilled by King Bros., 1952.

Topsoil	2	2
Clay, yellow	25	27
Clay, blue	9	36
Sand, yellow	3	39
Gravel, cemented; water	10	49
Gravel, dirty	9	58
Clay, blue	7	65
"Sand rock", soft, yellow; bailed 20-35 gpm	20	85
Clay, yellow	2	87
Clay, blue	5	92

(continued next column)

12/1W-16K2.--continued

Materials	Thickness (feet)	Depth (feet)
Sand, black and brown, enough clay to prevent cave-in; bailed 50-55 gpm.	6	98
Clay, blue	6	104

Casing: 10-inch, set to 96½ ft.

12/1W-16Q4 (See below)

12/1W-18M1. Ben Meier. Altitude 480 ft. Drilled by C. D. Roberts, 1953.

Topsoil	3	3
Clay, yellow	27	30
Clay, yellow, and gravel	10	40
Gravel, cemented	15	55
Gravel and sand; water	30	85
Sand, coarse, some fine gravel; water	2	87

Casing: 6-inch, set to 84 ft.

12/1W-23N1. E. L. Fish. Altitude 388 ft. Dug by owner, 1941.

Clay, gray-white, sticky	7½	7½
Gravel, "cemented" with clay binder	10½	18
Sand and cobbles, "cemented" with clay binder; water	4	22

Curbing: 48 by 48-inch, to 7½ ft.

12/1W-29D1. M. E. Hart. Altitude 345 ft. Drilled by Frank Galivan, 1952.

Topsoil	2	2
Clay, yellow	18	20
Gravel, "cemented" but rotten (weathered gravel bound by clay products of alteration)	3	23
Gravel, cemented, hard	9	32
Sand, coarse, greenish-blue; water rose from 32 to 14 ft--		32+

Casing: 6-inch.

12/1W-16Q4. Wash. State Division of Forestry. Altitude 378 ft. Drilled by C. D. Roberts.

Clay	6	6
Clay and boulders	18	24
Gravel, cemented	21	45
Sand and gravel; water	13	58

Casing: 6-inch.

Table 2.--Logs of representative wells in Lewis County--Con.

12/2W-1P1. Ben Richardson. Altitude 484 ft. Drilled by C. D. Roberts 1952.

Materials	Thickness (feet)	Depth (feet)
Clay, hard.	4	4
Clay, yellow; weathered gravel.	50	54
Gravel and sand, cemented	20	74
Gravel and sand, cemented; water.	16	90
Sand, pure.	1	91
Gravel, cemented.	6	97
Sand, coarse, some gravel; water.	12	109
Sand, very fine.	7	116
Sand, coarse; gravel; water	13	129

Casing: 6-inch, set to 129 ft.

12/2W-2J1. J. H. Nelson. Altitude 482 ft. Drilled by Oscar Keto, 1953.

Materials	Thickness (feet)	Depth (feet)
Clay, red.	70	70
Sand and gravel, soft, mixed with clay	67	137
Gravel; water.	3	140

Casing: 8-inch, set to 137 ft; perforated from 70 to 133 ft.

12/2W-3A2. R. A. Laney. Altitude 464 ft. Drilled by C. D. Roberts, 1952.

Materials	Thickness (feet)	Depth (feet)
Gravel, cemented, and clay	124	124
Clay, blue.	56	180
Sand, fine; water	20	200

Casing: 6-inch, set to 194 ft.

12/2W-4Q3. W. K. Wachter. Altitude 446 ft. Drilled by C.D.Roberts, 1953.

Materials	Thickness (feet)	Depth (feet)
Dug well.	64	64
Gravel and sand, cemented	51	115
Sand and gravel; water. .	7	122
Gravel, cemented.	23	145
Gravel and sand; water. .	15	160
Sand, silty.	7	167
Gravel, a little sand; water.	17	184

Casing: 8-inch, set to 184 ft; perforated from 115-122 ft.

12/2W-7J1. Harold Breshon. Altitude 715 ft. Drilled by V. W. Athey, 1951.

Materials	Thickness (feet)	Depth (feet)
Clay, yellow, and some gravel.	33½	33½
Rock, hard, black.	112½	146
Sand and clay, yellow, with small "creek" gravel. . .	54	200
Rock, shaly, yellow and black (jointed and weathered tuffaceous siltstone	10	210
Sand and clay, yellow with some small gravel. . . .	15	225
Sand, green.	8	233

Casing: none. "Dry well"

12/2W-7J2. Harold Breshon. Altitude 700 ft. Drilled by V. W. Athey, 1951.

Materials	Thickness (feet)	Depth (feet)
Clay, red.	35	35
Basalt, fractured; water .	40	75

Casing: 8-inch, set to 35 ft.

12/2W-8A2. Archie Floch. Altitude 404 ft. Drilled by Fox Bros., 1947.

Materials	Thickness (feet)	Depth (feet)
Topsoil.	2	2
Clay, yellowish, and weathered gravel.	45	47
Sand.	3	50
"Hardpan".	7	57
Sand.	11	68
Sand, black.	1	69
"Rocks", large.	--	69+

Casing: 6-inch, set to 69 ft.

12/2W-8P2. George Fries. Altitude 550 ft. Drilled by Frank Galivan, 1952.

Materials	Thickness (feet)	Depth (feet)
Topsoil.	10	10
Basalt.	70	80
Shale(?).	10	90
Clay, blue.	55	145
Sand and gravel.	10	155

Casing: 4-inch, set to 140 ft. "Dry well".

Table 2.--Logs of representative wells in Lewis County--Con.

12/2W-8Q1. Norman Fries. Altitude 505 ft. Drilled by V.W.Athey. 1952.

Materials	Thickness (feet)	Depth (feet)
Topsoil.	5	5
Basalt.	78	83
Wood, decomposed. . . .	16	99
Shale, blue.	10	109
Sandstone.	19	128
Rock, black (not so hard as basalt).	8	136
Joint or cavity in above material: water	4	140

Casing: 6-inch, set to 136 ft.

12/2W-9A2. H. G. England. Altitude 455 ft. Dug by owner, 1914.

Materials	Thickness (feet)	Depth (feet)
Topsoil.	6	6
Clay.	14	20
Gravel and some sand, consolidated, weathered. .	42	62

Curbing: 48-inch, set to 6 ft.

12/2W-9B1. M.G. Egebert. Altitude 450 ft. Drilled by C.D. Roberts, 1947.

Materials	Thickness (feet)	Depth (feet)
Clay, red.	20	20
Clay, yellow, and gravel	60	80
Gravel, cemented	45	125
Sand and gravel.	15	140
Gravel and sand, soft, but consolidated: water	10	150

Casing: 6-inch, set to 150 (?)

12/2W-9D1. W.J.Wilson. Altitude 410 ft. Dug by owner.

Materials	Thickness (feet)	Depth (feet)
Topsoil.	4	4
Clay and weathered gravel	26	30
Sand, water-bearing. . .	14	44
Cobbles and sand, cemented	26	70

12/2W-9D2. W.J.Wilson. Altitude 400 ft. Dug by owner, 1922.

Materials	Thickness (feet)	Depth (feet)
Topsoil.	2	2
Clay and weathered gravel, cemented.	26	28
Cobbles and sand, cemented: water.	10	38

Curbing: 42-inch, to 5 ft.

12/2W-9G1. E. R. Gill. Altitude 437 ft. Drilled by --Jannsen, 1947.

Materials	Thickness (feet)	Depth (feet)
Dug well; static level 10 ft.	80	80
Sand and gravel, cemented, lost water on entering this bed.	40	120
Clay or sand, blue	7	127
Sand and gravel: water, static level 71 ft. . . .	8	135

Casing: 6-inch to 135 ft (Memory log)

12/2W-9L4. G. R. Smith. Altitude 435 ft. Drilled by C.D.Roberts, 1953.

Materials	Thickness (feet)	Depth (feet)
Topsoil.	3	3
Clay, red, sticky.	7	10
Clay, white.	3	13
Clay, yellow, gritty, some gravel.	7	20
Gravel, cemented	54	74
Gravel: water.	1	75
Gravel, cemented	5	80
Sand, fine, brown: water .	7	87
Gravel, cemented.	5	92
Gravel, coarse and fine: water.	28	120
Gravel, fine: water. . . .	14	134
Gravel, fine, "washed" . .	9	143

Casing: 8-inch, set to 143 ft.

Table 2.--Logs of representative wells in Lewis County--Con.

12/2W-9R2. J.W. Behymer. Altitude 440 ft. Drilled by V. W. Athey and C. D. Roberts, 1953.

Materials	Thickness (feet)	Depth (feet)
Clay, yellow, and soft gravel	50	50
Clay, yellow, and hard gravel	14	64
Gravel, cemented	19	83
Gravel, tight, and yellow clay; a little water. Static water level 68 ft	11	94
Gravel, "large"	6	100
Gravel, some yellow clay, some water at base	18	118
Gravel, cemented(?), clean	40	158
Clay or shale	37	195
Clay and cobbles, small particles of wood; water Static level 75 ft	15	210
Clay, sandy	10	220
Clay or shale, gray, sticky	5	225

Casing: 8-inch, set to 124 ft; 6-inch, set from 99 to 230 ft. Perforated from 86-121 ft, and from 195-210 ft (and lower?)

12/2W-10D2. C.W.Carlson. Altitude 465 ft. Drilled by C. D. Roberts, 1953

Materials	Thickness (feet)	Depth (feet)
Topsoil	1	1
Clay, red	17	18
Clay, red, and soft gravel, mixed	22	40
Clay, yellow, and gravel	20	60
Gravel and sand, cemented, a little water	20	80
Clay and gravel, mixed	45	125
Gravel, coarse: water	3	128
Sand and gravel, cemented, a little water	52	180
Clay, yellow	5	185
Clay, blue	5	190

Casing: 8-inch, set to 190 ft; perforated from 127-180 ft.

12/2W-10N1. L. P. Schwarzkopf. Altitude 440 ft. Drilled by C. D. Roberts 1950.

Materials	Thickness (feet)	Depth (feet)
Topsoil	5	5
Clay, red	5	10
Clay, yellow, and cemented gravel	54	64
Sand and fine gravel: water	4	68
Gravel, cemented	4	72
Gravel: water	20	92
Gravel and fine sand: water	8	100
Clay, blue	--	100+

Casing: 6-inch, set to 100 ft; perforated from 70-100 ft.

12/2W-16C1. R. Jensen. Altitude 440 ft. Dug by owner.

Materials	Thickness (feet)	Depth (feet)
Topsoil	2	2
Clay	18	20
Sand	2	22
Clay and gravel	24	46

12/2W-16E3. James MaGuire. Altitude 475 ft. Drilled by C.D.Roberts, 1955.

Materials	Thickness (feet)	Depth (feet)
Clay, red	16	16
Basalt	41	57
Clay, silt, and sand. Water at 90 ft in fine sand. Green silty clay somewhere from 90 to 120 ft	108	165
Sand, fine, gray: water	20	185
Clay or siltstone, sticky, blue-gray, and light gray pebbles of soft rock	--	185+

Casing: 4-inch.

12/2W-16J1. Willis Porter. Altitude 445 ft. Dug by owner, 1935.

Materials	Thickness (feet)	Depth (feet)
Topsoil	6	6
Clay, red, "consolidated"	41	47
Gravel and boulders, diameter 4 to 16 inches	38	85
Sand and gravel	19½	104½
Sand	½	105
Gravel, fine: water	3	108

Curbing: 42-inch to 4½ ft.

Table 2.--Logs of representative wells in Lewis County--Con.

12/2W-24B2. C.P. Ruether. Altitude 470 ft. Drilled by C. D. Roberts 1951.

Materials	Thickness (feet)	Depth (feet)
Clay.	4	4
Clay and soft gravel. . .	20	24
Gravel and sand, cemented	45	69
Clay, blue.	1	70
Sand, coarse.	2	72
Gravel, cemented, yellow. --		72+

Casing: 6-inch, set to 72 ft.

12/2W-25H1. Charles Acord. Altitude 478 ft. Dug by owner.

Materials	Thickness (feet)	Depth (feet)
Topsoil.	1	1
Clay, yellow.	5	6
Clay, rusty, hard, with a few 1½-inch hard pebbles	18	24
Gravel.	8	32

Cribbing: Brick, 72 by 60 inches to 6 ft.

12/2W-27R1. G. Frelich. Altitude 465 ft. Dug by owner, 1928.

Materials	Thickness (feet)	Depth (feet)
Clay.	10	10
Gravel.	5	15
Sand.	12	27
Clay, blue.	1	28
Sand and gravel, clean, packed; water.	39	67

Curbing: 48-inch, cement, to 10 ft.

12/2W-28J1 (next page)

12/2W-28M1. Bert Johnson. Altitude 404 ft. Drilled by C.D.Roberts, 1949

Materials	Thickness (feet)	Depth (feet)
Topsoil.	3	3
Clay, yellow-brown. . . .	52	55
Gravel, fine to medium; water.	11	66

Casing: 6-inch, set to 60 ft; perforated.

12/2W-28R1 (next page)

12/2W-30G1. Oscar Wedam. Altitude 460 ft. Drilled by Athey and Brewer, 1952.

Materials	Thickness (feet)	Depth (feet)
Clay, "shot"; "clam" shells.	18	18
"Rock", soft, brown . . .	2	20
"Sand rock" and silt, green	3	23
"Sand rock", green; water	122	145

(continued next column)

12/2W-30G1.--continued.

Materials	Thickness (feet)	Depth (feet)
"Sand rock", gray.	5	150
"Sand rock", green, clay and shells.	25	175
"Sand rock", greenish-gray	3	178
Clay, sandy, green, and shells; water.	9	187
"Rock", hard.	2	189
Sand, gray.	3	192
Sand, green, and shells. .	8	200
Sand, gray; water.	5	205
Sand, green, clay and shells; Static level 35 ft. . . .	15	230
Sand and shells.	17	247
Clay.	11	258
Sand.	4	262
Clay.	6	268
Sand.	5	273
"Soapstone"	4	277
Sand.	2	279
"Soapstone".	3	282
Sand, fine.	15	297
Sandstone.	2	299
Sand.	11	310
Clay.	4	314
Sand, green; water, static level 22 ft.	14	328

Pumped 15 gpm when well 230 ft deep
Pumped 30 gpm when well 328 ft deep
Casing: 8-inch, set to 29 ft.

12/2W-31B1. M.G.Perkins. Altitude 545 ft. Drilled by C.D.Roberts, 1952.

Materials	Thickness (feet)	Depth (feet)
Clay, red, and gravel. . .	100	100
Shale.	12	112
Shale, sandy; water; static level 30 ft.	28	140
Clay, sticky, black and gray, with streaks of coal and petrified wood.	50	190
Clay, sticky, gray (hard drilling).	17	207

Casing: 6-inch, set to 126 ft.

Table 2.--Logs of representative wells in Lewis County--Con.

INSERTS

12/2W-28J1. City of Winlock, Well No. 2. Altitude 365 ft. Drilled by Charles King, 1932.

Materials	Thickness (feet)	Depth (feet)
Clay.	25	25
Gravel, cemented; pebbles hard, and cleaner toward bottom.	..	..
Gravel and very coarse, sand, clean, gray; water..		60
Shale.	200	260

Casing: 12-inch, perforated from 18-60 ft.

12/2W-28R1. City of Winlock, Well No. 2. Altitude 355 ft. Drilled by Charles King, 1932.

Materials	Thickness (feet)	Depth (feet)
Clay.	25	25
Gravel, cemented; pebbles hard, and cleaner toward bottom.	..	..
Gravel and very coarse sand, clean, gray; water ..		55¼
Shale.	?	55¼+

Casing: 8-inch, set to 55¼ ft; perforated.

Table 2.--Logs of representative wells in Lewis County--Con.

12/2W-31C1. Felix Anderson. Altitude 640 ft.

Materials	Thickness (feet)	Depth (feet)
Soil and clay.	10	10
Siltstone, tuffaceous, gray	48	58
Siltstone, blue-black (blue-black joint surfaces?) harder; not basalt, according to owner).	92	150
Gravel, of same blue-black material, rounded, pea-to marble size; could break up between fingers. . .	3	153

Casing: 6-inch, set to 125 ft.

12/2W-32D1. Carl Maki. Altitude 495 ft. Dug by owner.

Materials	Thickness (feet)	Depth (feet)
Clay, red, and rotten gravel	36	36
"Hardpan".	1	37
"Quicksand", white. . . .	6	43

12/2W-33B1 (next page)

12/2W-34F2 (next page)

12/2W-34G1. Andrew Hinen. Altitude 475 ft. Drilled by C.D. Roberts, 1952

Materials	Thickness (feet)	Depth (feet)
Clay, red.	10	10
Clay, yellow.	30	40
Clay, yellow, and broken rock	30	70
Clay, sandy, and gravel .	30	100
Gravel, coarse, and sand.	20	120
Gravel and sand: water. .	5	125
Gravel and fine sand. . .	5	130
Gravel, coarse, and sand: water.	20	150
Gravel and cemented sand	10	160
Gravel and sand: water. .	25	185

Casing: 8-inch, set to 185 ft; perforated from 120-125 ft, from 130-150 ft, and from 160-178 ft.

12/2W-35B2. Clayton Mikelson. Altitude 460 ft. Drilled by C.D. Roberts 1953.

Materials	Thickness (feet)	Depth (feet)
Clay, yellow, and gravel .	60	60
Gravel, coarse: water. . .	30	90
Gravel, cemented: water. .	15	105
Gravel, coarse, and sand: water, static level 35 ft. Bailed 40 gpm, dd 20 ft .	14	119
Sand, brown.	21	140
Sand, brown, some fine gravel.	10	150

(continued next column)

12/2W-35B2--continued

Materials	Thickness (feet)	Depth (feet)
Gravel, coarse.	10	160

Casing: 8-inch, set to 160 ft; perforated from 90-117 ft.

12/2W-35G2. Ralph Champ. Altitude 470 ft. Drilled by C.D. Roberts, 1953.

Materials	Thickness (feet)	Depth (feet)
Dug well.	60	60
Gravel, cemented.	50	110
Gravel, fine: water . . .	7	117
Sand, fine: water. . . .	3	120
Gravel, medium to coarse	9	129

Casing: 8-inch, set to 129 ft.

12/2W-35H1. Clayton Mikelson. Altitude 487 ft. Drilled by C.D. Roberts

Materials	Thickness (feet)	Depth (feet)
Dug well; mostly clay. . .	60	60
"Rock", broken.	10	70
Clay and "soapstone" . . .	45	115
Sand and "rock" (gravel?), some clay: water.	15	130

Casing: 6-inch, set to 130 ft.

12/2W-35K1. C. A. Graham. Altitude 460 ft. Dug by owner, 1915.

Materials	Thickness (feet)	Depth (feet)
Topsoil.	3½	3½
Clay, red.	26½	30
Gravel, weathered, and clay	15	45
Sand and gravel: water . .	3	48

Curbing: 48-inch, cement to 4 ft.

12/3W-8C1. V.W. Shaklee. Altitude 283 ft. Dug, 1953.

Materials	Thickness (feet)	Depth (feet)
Clay and sand, mixed. . .	24	24
"Quicksand".	3	27
Gravel: water.	3	30

Casing: 30-inch, tile to 27 ft.

12/3W-13F1. John King. Altitude 518 ft. Drilled by Fox Bros., 1947.

Materials	Thickness (feet)	Depth (feet)
No record.	--	50
Shale, gray, with shells	8	58
No record: water. . . .	--	--
No record.	--	200
Sand.	20	220

Casing: 6-inch, set to 55 ft.

Table 2.--Logs of representative wells in Lewis County--Con.

12/2W-33B1. City of Winlock Well No. 3. Altitude 320 ft. Dug; drilled by Charles King, 1932.

Materials	Thickness (feet)	Depth (feet)
Clay.	25	25
Gravel, cemented; pebbles, hard and cleaner toward bottom.	..	..
Gravel and very coarse sand; clean, gray: water	..	60
Shale.	2	62

Original diameter 48 inches.
Casing: 28-inch, set to 60(?) ft; perforated from (45-60)? ft. Back-filled with boulders for 10 to 15 ft.

12/2W-34F2. V. O. Harkins. Altitude 470 ft. Drilled by Charles King, 1955.

Clay, yellow.	86	86
Sand, gravel, and boulders: water.	84	170
Shale.	6	176

Casing: 8-inch, set to 171 ft; perforated

Table 2.--Logs of representative wells in Lewis County--Con.

12/3W-30Q1. Louis Hill. Altitude 324 ft. Dug.

Materials	Thickness (feet)	Depth (feet)
Topsoil	1½	1½
Clay, yellow	15½	16½
Gravel: water	1½	18
Shale	2	20

Casing: 6-inch, tile, set to 16 ft; 30 inch from 16-20 ft.

12/4W-12D2. Boistfort Church. Altitude 267 ft. Drilled by C.D.Roberts.

Soil, sandy loam, clay	10	10
Sand and gravel	8+	18+
Clay, blue and yellow	32-	50
Shale	50	100

Casing: none.

12/4W-13M1. George Alden. Altitude 330 ft. Drilled by Oscar Keto, 1952.

Boulders	12	12
"Soapstone"(blue clay	67	79
Gravel, fine	2	81
"Soapstone", hard; water	--	81+

Casing: 7-inch.

12/1-2E1. Wm. Hansen. Altitude 690 ft. Drilled by Charles King.

Clay and gravel	50	50
Gravel and boulders, cemented; some boulders very large	170	220
Sand and gravel, loose; water	28	248

Casing: 6-inch, set to 244 ft.

12/1-2N1. E.H.Powell. Altitude 670 ft. Drilled by Richardson Well-Drilling Co., 1952.

Clay, red	8	8
Gravel, yellow clay, and boulders	69	77
"Hardpan"	5	82
Gravel, clay, and boulders	117	199
Gravel and clay	27	226
Gravel and clay, with streaks of water-bearing sand; bailed 40 gpm, dd 2 ft.	9	235

(continued next column)

12/1-2N1.--continued.

Materials	Thickness (feet)	Depth (feet)
Gravel and clay, yellow	6	241

Casing: 12-inch, set to 241 ft; perforated from 215-235 ft.

12/1-8P2. Dr.J.A.Kehoe. Altitude 519 ft. Drilled by A.P.Graf and Oscar Keto, 1951.

Dug well; static level 85 ft; "blowing well"	89	89
Sand and gravel: water	12	97
"Hardpan" and a little blue clay	6	103
Sand, gray, and fine gravel, coarsening toward bottom: water	13	116

Casing: 8-inch, set to 112 ft; perforated from 85-112 ft.

12/1-8Q2. J.C.Nelson. Altitude 526 ft. Drilled by C.D. Roberts, 1955.

Topsoil	2	2
Clay, yellow	6	8
Gravel and boulders, cemented	26	34
Gravel and sand, cemented	60	94
Gravel and sand: water	13	107
Sand, fine, and big gravel: water	5	112
Gravel, coarse	13	125
Sand, "heaving kind", and big gravel	6	131
Sand	6	137
Gravel, very coarse (fist-size), reddish	4	141

Casing: 8-inch, set to 141 ft; perforated from 94-107 ft, and from 111 to 125 ft.

12/1-9Q1. C. E. Farr. Altitude 572 ft. Dug, 1935(?).

Clay, red	12	12
Gravel, cemented (hard, but decomposed)	58	70
Sand, water-bearing. Does not keep water in summer. Original bottom of well	3±	73
Gravel, cemented	70	143

Curbing: cement to 14 ft.

Table 2.--Logs of representative wells in Lewis County--Con.

12/1-10P1. Earl Kerr. Altitude 598 ft. Dug by owner, 1930.

Materials	Thickness (feet)	Depth (feet)
Clay.	8	8
Gravel.	2	10
Gravel, hard, tightly-cemented (hard enough to strike sparks off pick on way down). A little water at 63 ft	130	140
Cobbles and boulders, stacked (no sand or clay). Boulders up to 12 inches in diameter. Digger felt air blowing out through voids.	5	145
Gravel, hard, tight. Water rose slightly.	13	158
Sand, gray(?).	--	158+

Curbing: 42 by 42-inch, cement, to 12½ ft.

12/1-12P1. S.G. DeGross. Altitude 565 ft. Drilled by Charles King and Wm. Price, 1930 and 1952.

Materials	Thickness (feet)	Depth (feet)
Soil.	6	6
Gravel and cobbles, fresh, cemented; boulders toward base: water at 40 and 78 ft.	72	78
"Shale", blue-gray, some small pebbles, fine sand, "bentonite" and varigated clay well down in section	122	200
Same as above, with sand and carbonized wood(alder?) Some water.	143	343
Sand, white, gritty, and yellow-gray soft gravel.	2	345
Gravel, fine and sand, clean.	12	357

Casing: 4-inch, set to 357 ft; perforated from 337-357 ft.

12/1-13B1. Owen Merry. Altitude 558 ft. Drilled by Wm. Price, 1955.

Materials	Thickness (feet)	Depth (feet)
Topsoil.	6	6
Clay, yellow, gravel, and boulders, cemented slightly. Bailed 2 gpm at 48 ft; static level 23½ ft . .	67	73

(continued next column)

12/1-13B1.--continued

Materials	Thickness (feet)	Depth (feet)
Boulders.	27	100
Siltstone, blue; lenses of fine gravel less than ½ ft thick, 1-5 ft apart. Water below 150 ft, at 150 ft static level dropped to 80 ft.	70	170

Casing: 6-inch, set to 170 ft.

12/1-13D2. W. P. Althauser. Altitude 549 ft. Drilled by Wm. Price, 1953

Materials	Thickness (feet)	Depth (feet)
Dirt.	3	3
Dirt and gravel; water enough to drill with at 85 ft.	119	122
Sand, brown	4	126
Gravel and dirt	24	150
Gravel, clean: water. . .	6	156

Casing: 6-inch, set to 155 ft.

12/1-13N1. Wm. Spath. Altitude 433 ft. Drilled by Wm. Price.

Materials	Thickness (feet)	Depth (feet)
Gravel, mostly cemented: water.	100	100
Sand, fine, loose, gray .	15	115
Sand, fine, firm, or sandy clay, gray; a little hard from 160-170 ft.	60	175
Sand, runny(sugar-like), blue; would yield 2 gpm sand-free water if screen used.	5	180
Sand, fine, firm, gray. .	20	200
Wood, "coaly", brown-black, soft.	15	215
Clay or shale, gray . . .	25	240
Clay, blue.	40	280
Basalt, not too hard. . .	4	284
Clay, blue.	--	---

Casing: 6-inch, set to 115 ft.

Table 2.--Logs of representative wells in Lewis County--Con.

12/1-14H1. Leo Kaiser. Altitude 535 ft. Drilled by Wm. Price, 1952.

Materials	Thickness (feet)	Depth (feet)
Topsoil	5	5
Rock and gravel, loose	5	10
Silt	25	35
Gravel	100	135
Sand	15	150
Shale, blue, muddy	10	160
Sand and gravel	2	162

Casing: 6-inch, set to 162 ft.

12/1-15J1. P.J.Harms. Altitude 483 ft. Drilled by C.D.Roberts, 1947

Materials	Thickness (feet)	Depth (feet)
Clay, yellow	30	30
Clay, yellow, and gravel, mixed	15	45
Gravel and small boulders, cemented	15	60
Gravel and sand, cemented	85	145
Shale, blue	20	165
Shale, sandy; water	8	173

Casing: 6-inch, set to 173 ft.

12/1-17N1. W.J.Coutts. Altitude 500 ft. Drilled by Wm. Price, 1951.

Materials	Thickness (feet)	Depth (feet)
Clay	20	20
Gravel, cemented; seepage	60	80
Gravel, looser; water	40	120

Casing: 12-inch, set to 120 ft; perforated from 96-116 ft.

12/2-4K1. W.H.Wilson. Altitude 685 ft. Drilled by Richardson Well Drilling Co., 1951-52

Materials	Thickness (feet)	Depth (feet)
Topsoil and clay	7	7
"Hardpan"	34	41
Clay, yellow, sand and gravel	7	48
"Hardpan", boulders; water shut off some at 87 ft, shut off completely at 96 ft	73	121
Clay, brown, and gravel	9	130
"Hardpan"; water at 182 and 207 ft. Tested 5 gpm	94	224
Clay, brown	11	235
Clay, blue	7	242
Clay, blue, and gravel. Tested 5 gpm at 250 ft.	8	250

(continued next column)

12/2-4K1.--continued

Materials	Thickness (feet)	Depth (feet)
"Hardpan", blue with shallow clay streaks	20	270

Casing: 10-inch, set to 122 ft. Cemented at 95 ft. Perforated from 35-108 ft.

12/2-4P2. Elmer Powell. Altitude 680 ft. Drilled by Wm.Price, 1954.

Materials	Thickness (feet)	Depth (feet)
Boulders and gravel, cemented	170	170
Sand and mud	50	220
Clay, blue	20	240
Shale	--	240+

Casing: 6-inch, set to 240 ft; perforated for 20 ft.

12/2-9A1. Wm. Ludwig. Altitude 450 ft. Drilled by Wm. Price, 1955.

Materials	Thickness (feet)	Depth (feet)
Gravel and dirt, loose	35	35
Gravel, loose; water	5	40
Shale, blue	8	48
Gravel, cemented	15	63
Sand, cemented	11	74
Gravel, cemented	8	82
Sand, cemented	3	85
Gravel and sand, cemented	5	90
Gravel, cemented	10	100
Gravel and sand, cemented	10	110

Total yield from 48-110 ft 50 gpm.
Casing: 8-inch.

Table 2.--Logs of representative wells in Lewis County--Con.

12/2-11A1. E. Sweet. Altitude 605 ft. Drilled by Wm. Price, 1953.

Materials	Thickness (feet)	Depth (feet)
Dirt.	11	11
Gravel.	17	28
Sand, brown.	7	35
Shale, blue, and gravel .	20	55
Shale, muddy	10	65
Rock.	20	85
Rock, red, and cinders. .	21	106
Rock, blue, hard.	30	136
Rock, black.	4	140
Rock, red.	15	155
Rock, black.	17	172
Rock, red.	19	191
Rock, black.	13	204
Rock, red, and shale. . .	16	220
Rock, blue, hard.	6	226
Rock, black.	9	235
Rock, red.	15	250
Rock, black.	31	281
Rock, red.	5	286
Rock and shale	4	290
Rock and gravel: water 10gpm	5	295
Rock, black.	10	305
Rock, red.	5	310
Rock, black, hard. . . .	8	318
Rock, gray.	7	325
Rock, red.	7	332
Rock, gray, hard.	3	335
Rock, red, sandy, soft. .	7	342
Rock, red, coarse. . . .	8	353
Shale, blue.	7	360
Rock, red: water, (bailed 42 gpm.	5	365
Rock, black.	5	370

Casing: 12-inch.

12/2-12B1. N.A. Aldrich. Altitude 621 ft. Drilled by Wm. Price, 1953.

Topsoil.	5	5
Mud and gravel.	75	80
Gravel, loose.	5	85
Gravel, cemented.	5	90
Gravel: water.	30	120
Sand: water.	2	122

Back-filled 5 ft with gravel.
Casing: 8-inch, set to 122 ft; perforated from 97-117 ft.

12/2-14B1. E. W. Blaisdell. Altitude 582 ft. Drilled by Richardson Well Drilling Co., 1951.

Materials	Thickness (feet)	Depth (feet)
Topsoil.	4	4
Clay, brown.	3	7
Clay, yellow, and gravel .	8	15
"Hardpan".	47	62
Clay, sand, and gravel . .	3	65
Sand and gravel; static level 59 ft.	2	67
"Hardpan" (water shut off).	3	70
Clay, coarse sand and gravel	3	73
Sand, coarse, and gravel, fairly loose. Tested 25 gpm at 76 ft.	7	80
Clay, brown.	6	86
"Hardpan".	18	104
Sand and fine gravel; water rose.	1	105
"Hardpan".	7	112
Clay, yellow, and gravel .	8	120
"Hardpan".	8	128
Gravel, sand, and clay . .	5	133
Sand, fine, and gravel, loose	3	136
"Hardpan".	7	143
Clay, blue, with shallow streaks of fine sand . .	77	220
Clay, gravel, and some shale	2	222
Clay, blue, with shallow streaks of fine sand . .	13	235
Sand, fine, and clay. . .	12	247
Clay, blue, with shallow streaks of sand.	68	315
Clay, blue.	7	322

Casing: 10-inch, set to 320 ft; perforated from 65-132 ft, and from 139 to 143 ft. Pumped 375 gpm, but pumped sand, so plugged and cemented casing from 132-143 ft, then pumped 250 gpm.

Table 2.--Logs of representative wells in Lewis County--Con.

12/2-16A1. Rudy Pries. Altitude 465 ft. Drilled by Wm. Price, 1953.

Materials	Thickness (feet)	Depth (feet)
Dirt and clay	12	12
Rock	15	27
Rock, red; a little water (5gph at 30 ft)	9	36
Rock and shale, brown(7 gph at 45 ft)	9	45
Rock, dirt, and sand, brown	23	68
Rock, red	4	72
Shale, brown	8	80
Rock, red	15	95
Shale, sandy, brown	10	105
Rock, black	5	110
Rock, blue	40	150

Total yield: 7 gph.
Casing: 6-inch, set to 22 ft.

12/2-17G1. Ray Huntting. Altitude 665 ft. Drilled by C. D. Roberts, 1944

Materials	Thickness (feet)	Depth (feet)
No record	--	--
Gravel, cemented	--	60
Gravel	20	80
No record; water	60	140
Rock	40	180
Sand, dry; water ran out of well	--	180+

Casing: 6-inch, set to 140 ft; perforated from 80-130 ft. Plugged well at 150 ft.

12/2-17J1. R.W.Rigg. Altitude 680 ft. Drilled by C.D.Roberts, 1948.

Materials	Thickness (feet)	Depth (feet)
Topsoil	2	2
Clay, yellow, and gravel	38	40
Gravel and boulders, cemented	220	260
Sand and gravel; gravel	18	278

Casing: 8 to 6-inch, set to 278 ft.

12/2-17L1. Walter Sears. Altitude 667 ft. Drilled by Wm.Price, 1954.

Materials	Thickness (feet)	Depth (feet)
Dug well	63	63
Sand and gravel, cemented	107	170
Gravel, loose; water (20 gpm)	4	174

Casing: 6-inch, set to 174 ft; perforated from 170-174 ft.

12/2-20F1 (next page)

12/2-24A1. K. Adams. Altitude 840 ft. Drilled by C.D.Roberts.

Materials	Thickness (feet)	Depth (feet)
Topsoil	1	1
Clay and gravel; water at base	17	18
Rock, red, soft, becoming hard and jointed at 180 ft. Water at 197 ft very hard and red	179	197

Casing: 6-inch, set to 18 ft.

12/2-35F1. N.E.Howard. Altitude 600 ft. Drilled by Frank Galivan, 1951.

Materials	Thickness (feet)	Depth (feet)
Topsoil	10	10
Boulders in sandy matrix; not cemented, not loose	10-15	20-25
Gravel, cemented	70-75	95
Gravel, "river"; water	2	97

Casing: 6-inch, set to 95 ft.

12/2-35G1. Marvin Howard. Altitude 590 ft. Drilled by Frank Galivan, 1947

Materials	Thickness (feet)	Depth (feet)
Topsoil	10	10
Boulders in sandy matrix; not cemented, not loose	10	20
Gravel, cemented	36	56
Gravel, "river"; water	2	58

Casing: 6-inch, set to 56 ft.

12/2-35G2. Marvin Howard. Altitude 607 ft. Drilled by Frank Galivan, 1951

Materials	Thickness (feet)	Depth (feet)
Topsoil	10	10
Boulders in sandy matrix, not cemented, not loose	7	17
Gravel, cemented	19	36
Gravel, "river"; water	2	38

Casing: 6-inch, set to 36 ft.

Table 2.--Logs of representative wells in Lewis County--Con.

12/2-20F1. F. C. Marsh. Altitude 645 ft. Drilled by C.D. Roberts, 1955.

Materials	Thickness (feet)	Depth (feet)
Rock, loose, "piled up"; size ranged from "orange to head"	20	20
Clay or "muck", blue; fairly fresh maple log at 23 ft	43	63
Rock, solid. Hard black rock (containing pockets of powdery black material) at 6 levels, with some water just above(?) each level; first such layer was 3-4 ft thick, at about 100 ft. Total water barely sufficient for domestic use.	160	223
Red formation: water, red, which cleared up	14(?)	237(?)

Casing: 6-inch, set to 63 ft.

Table 2.--Logs of representative wells in Lewis County--Con.

12/3-8C1. Altitude 737 ft. Drilled by A.& M. Co. 1927.

Materials	Thickness (feet)	Depth (feet)
Soil, boulders, and gravel	12	12
Gravel and boulders, mixed with clay	27½	39½
"Hardpan"	2½	42
Sand, gravel, and boulders, cemented; water-sand at 107 ft.	69	111
Gravel, loose	5	116
Gravel, cemented	4	120
Sand, loose, and coarse	2	122
Gravel and sand, cemented	14	136
Sand	1	137
Boulders, some sand and gravel: loose; takes water away	79	216
Sand, hard	9	225
Gravel, loose	1	226
Clay, sandy	9	235
Clay and sand	35	270
Sand, gravel and clay, loose	22	292
Sand, running water	2	294
Sand, blue, "heaving"	9	303
Sand, black	35	338
Sand, blue, mixed with clay	45	383
Sand and clay	22	405
Sand, gravel and boulders, loose	5	410
Sand, black, running	5	415
Sand and gravel, blue, loose	6	421
Boulder and gravel, loose	3	424
Sand and gravel	1	425
Boulders	2	427
Sand and clay	26	453
Clay, blue, some "shale" (silt?)	16	469
Sand, loose	2	471
Gravel, coarse	3½	474½
Gravel and sand	5½	480
Clay and sand	6	486
Gravel	3	489
Clay and loose "shale"(silt?)	1	490
Sand and "quicksand"	12½	502½
Gravel and sand, loose	29½	532
Boulders, fine gravel, and black sand; loose	25	557
Rock, black	9	566
Rock, black and gray	16	582
Rock, black, gray and brown	3	585

12/3-16J1. W. H. Bowen. Altitude 810 ft. Drilled by Frank Galivan, 1945

	Thickness (feet)	Depth (feet)
Clay and gravel	18	18
"Granite", blue	88	106
Rock, gray	5	111
Rock, red	5	116
Rock, white	5	121
"Granite", blue	25	146
Sand, black: water	8	154

Casing: 6-inch, set to 18 ft.

12/3-18P1. J.E.Swigart. Altitude 670 ft. Drilled by Frank Galivan.

Topsoil	2	2
Clay, brown	10	12
Gravel, cemented; air rushed up through casing	105	117

Casing: 6-inch.

12/3-21A1. W.H.Newton. Altitude 828 ft. Drilled by C. D. Roberts, 1949.

Clay	20	20
Clay and gravel: water(10 gpm, dd 52 ft)	30	50
Shale, hard, gray	50	100

Casing: 6-inch, set to 50 ft.

12/3-21G2. C. Blankenship. Altitude 760 ft. Drilled by Wm. Price.

Clay and rocks	22	22
"Granite", blue	62	84
"Granite", red	2	86
"Granite", blue, with 2 layers of red "granite" included	164	250

Casing: 6-inch, set to 22 ft.

12/3-22D1. Harry Belcher. Altitude 780 ft. Drilled by Wm. Price, 1951.

Clay	45	45
"Granite"	127	172
Sand, black: water	18	190

Casing: 6-inch, set to 60 ft.

Table 2.--Logs of representative wells in Lewis County--Con.

12/3-24C1. W.O.Jackson. Altitude 530 ft. Drilled by Frank Galivan.

Materials	Thickness (feet)	Depth (feet)
Topsoil.	6	6
Gravel.	37	43
"Soapstone", white. . . .	30	73
Gravel: water.	3	76

Casing: 7-inch, set to 73 ft.

12/5-22A1. John Hackney. Altitude 827 ft. Drilled by R.B.DeRemer, 1951.

Materials	Thickness (feet)	Depth (feet)
Clay and cemented pebbles of volcanic ash; layered	25	25
"Hardpan"(hard clay with pebbles).	6	31
Gravel, fine.	5	36
Clay.	16	52

Casing: 6-inch.

12/5-28A1. Lawrence Goodwin. Altitude 775 ft. Drilled.

Materials	Thickness (feet)	Depth (feet)
Topsoil and clay: water at 13 ft.	13	13
Gravel, dry.	5	18
"Hardpan".	22	30
Sand and gravel: water . .	1	31

Casing: 6-inch.

12/5-28G1. K.W.Barrett. Altitude 767 ft. Drilled by C.D.Roberts, 1943

Materials	Thickness (feet)	Depth (feet)
Topsoil.	4	4
Gravel, "hardpan". . . .	2	6
Sand and gravel.	4	10
"Hardpan".	25	35
Sand and gravel: water . .	4	39

Casing: 8-inch, set to 39 ft.

12/7-10L1. Morton School Dist. #214(--Cebull). Altitude 925 ft. Drilled by M. H. Hansen, 1951.

Materials	Thickness (feet)	Depth (feet)
Topsoil and clay.	8	8
"Rock, large", and gravel.	8	16
Gravel, "large", and clay.	15	31
Gravel, small, and clay. .	9	40
Sand, compact, and gravel: water.	5	45

(continued next column)

12/7-10N1--continued

Materials	Thickness (feet)	Depth (feet)
Gravel, "small", and sand	2	47
Sand, coarse, and gravel .	10	57

Casing: 8-inch, set to 47 ft; screen from 47-57 ft.

12/9-6K1. W.P. Kerr. Altitude 987 ft. Drilled by W.L.Swinney, 1950.

Materials	Thickness (feet)	Depth (feet)
Topsoil.	3	3
Sand, muddy.	11	14
Sand and gravel.	4	18
Gravel: water.	9	27

Casing: 8-inch, set to 18 ft.

13/1W-1D1. Ed Pfirter. Altitude 393 ft. Dug and jetted by owner, 1945.

Materials	Thickness (feet)	Depth (feet)
Topsoil.	2	2
Clay.	18	20
Gravel.	4	24
Clay, dry, hard, blue-gray	100	124
Boulders or cobbles: water Water flowed at surface initially with bits of "charcoal.	--	124+

Casing: 21-inch, tile, and 3-inch, steel, set to 60 ft.

13/1W-2A1. L.F.Miller. Altitude 388 ft. Drilled by King Bros., 1938.

Materials	Thickness (feet)	Depth (feet)
Topsoil.	2	2
Clay.	10	12
Gravel.	2	14
Clay, dry "soapy", blue	73	87
Sand, cark: water. . .	1	88

Well flowed slightly initially.
Casing: 6-inch, set to 44 ft.

13/1W-2G1. Andrew Johnson. Altitude 375 ft. Dug by owner.

Materials	Thickness (feet)	Depth (feet)
Gravel, mostly. . . .	15	15
"Gumbo".	35	50
Gravel.	1	51

Casing: 36 to 3-1 inch, set to 15 ft.

Table 2.--Logs of representative wells in Lewis County--Con.

13/1W-5H2. Carl Harmon. Altitude 558 ft. Drilled by Edwin King, 1954.

Materials	Thickness (feet)	Depth (feet)
Clay, blue; water at 30 ft	103	103
Gravel, fine, soft, yellow and sand; water	5	108
Clay, blue	2	110

Casing: 6-inch; screened from 103 to 108(?) ft.

13/1W-9E1. C.A.Connally. Altitude 578 ft. Dug by owner.

Materials	Thickness (feet)	Depth (feet)
Clay, red, and soft "pinshot" gravel	20	20
Gravel, coarser (up to 2½-3 inches in diam), harder but weathered thoroughly, admixture of sand and clay	9	29

Cribbing: 27-inch, cement to 8 ft. Bricked (half-bricks) from 8-29 ft.

13/1W-9N1. J.J.Hendershot. Altitude 345 ft. Dug by S.A.Connally.

Materials	Thickness (feet)	Depth (feet)
Clay, blue	37	37
Sand, "black", fine in thin layers dipping about 45°. Branches of carbonized wood up to 2-3 inches in diam, in "tree-top" form encountered at 39 or 40 ft. On drying out in house wood checked and snapped audibly. Sand is water-bearing.	8	45

13/1W-11F1. Ben Snyder. Altitude 412 ft. Drilled by C.D. Roberts, 1949

Materials	Thickness (feet)	Depth (feet)
Topsoil	2	2
Clay(?)	15	17
Clay, blue; log at 100 ft.	169	186

Casing: 6-inch, pulled.

13/1W-17H2. Frank Hamilton. Altitude 305 ft. Drilled by Edwin King, 1954.

Materials	Thickness (feet)	Depth (feet)
Gravel, clay at top	28	28
Clay, blue	47	75
Sand, blue-gray, and wood	5	80
Clay, blue	60	140
Sand, a little, in layers, and wood (1 gpm water)	10	150
Clay, blue	--	150+

13/1W-18K1. Inez Teitzel. Altitude 310 ft. Drilled by Continental Oil Co., 1955.

Materials	Thickness (feet)	Depth (feet)
Clay, yellow and cobbles	65	65
Clay, blue, blue silty sandstone and wood; water-bearing (small amount) at unknown level between 65 and 545 ft. Water under pressure, at 435 ft, in sand(?) blue and fine	480+	545+
Sand, coarse, blue, and wood: water under pressure	--	545+

Casing: 5½-inch, set to 80 ft. Well plugged.

Table 2.--Logs of representative wells in Lewis County--Con.

13/1W-18R1. Inez Teitzel. Altitude 280 ft. Drilled Continental Oil Co., 1955.

Materials	Thickness (feet)	Depth (feet)
Soil.	5	5
Sand and clay, yellow, sticky, some gravel. .	10	15
Gravel, fairly coarse .	5	20
Shale.	5	25
Shale, sandy.	10	35
Shale, firm, sandy. . .	5	40
Shale, sandy.	20	60
Shale, sandy, loose . .	40	100
Sand, firm, with wood .	25	125
Sand, firm.	45	170
Shale.	15	185
Shale, sandy.	5	190
Shale, tough.	15	205
Shale.	15	220
Shale, sandy.	5	225
Shale, firm.	40	265
Shale, sandy, green . .	75	340
Sandstone, soft	5	345
Coal and wood.	5	350
No record; fresh water (added?).	5	355
No record.	20	375
Shale, green.	10	385
Shale, sandy; water(?).	15	400
Sandstone, well flowing from 430-435.	35	435
Shale, sandy.	106	541
Sand(?); water	--	--

Reduced 5½-inch casing to 1-inch (ID) pipe; report water under natural pressure shot over top of 39-ft well drilling rig.

Water-bearing at several levels.

Casing: 5½-inch, set to 28 ft; plugged. Water escaped below casing into bed of Newaukum River, 50± ft away. Well re-plugged.

13/1W-19D1. Harold Quick. Altitude 280 ft. Drilled by C.D.Roberts, 1946.

Clay, yellow, and boulders	30	30
Clay, blue.	80	110
Sand, fine, with much mica; water.	5	115

Casing: 8-inch, set to 115 ft.

13/1W-19F2. Altitude 298 ft. Drilled by Continental Oil Co., 1955.

Materials	Thickness (feet)	Depth (feet)
Boulders and clay.	27	27
Shale, blue, alternately sticky and sandy.	453	480
"Sandstone", soft, (slight amount of flowing water)	7	487
Basalt(?), hard, blue-gray light in color; sample fragment was volcanic. .	83	570
Hard layers, with some pebbles of various volcanic rocks.	50	820
Softer material(easy drilling).	180+	1000+

Casing: 5½-inch, set to 86 ft.

13/1W-19G1. Dr. Weldon Pascoe. Altitude 275 ft. Drilled by C.D. Roberts.

Clay, yellow, some boulders	30	30
Clay, blue.	30	60
Sand, with logs; water. . .	10	70
Clay, blue.	35	105
Sand, with logs; slight water seepage.	5	110
Clay, blue.	70	180
Sand.	3	183
Clay, blue.	17	200

Casing: 6-inch, set to 200 ft.

Table 2.--Logs of representative wells in Lewis County--Con.

13/1W-19Q1. Dr. L. G. Steck. Altitude 307 ft. Drilled by Richardson Well Drilling Co., 1951.

Materials	Thickness (feet)	Depth (feet)
Topsoil.	4	4
Clay, yellow, and gravel .	8	12
"Hardpan".	31	43
Sand, coarse, and gravel; water, tested 8 gpm. . .	7	50
Clay, multi-colored. . . .	3	53
Clay, blue.	15	68
Clay, blue, sandy.	5	73
Sand.	18	91
Clay, blue.	97	188
Clay, multi-colored. . . .	44	232
Sand and water; tested 25 gpm; "heaved" 30 ft. . .	4	236
Clay, blue.	64	300
Sand, "heaving".	8	308
Clay, blue, sandy.	12	320
Clay, multi-colored. . . .	44	364
Sand, dry, streaks of clay	18	382
Clay, multi-colored. . . .	74	456
Clay, sandy.	11	467
Clay, multi-colored. . . .	71	538
Sand, gravel, and wood; pumped 100 gpm, 12 hr test . . .	2	540
Gravel and clay.	6	546
Clay, sandy.	5	551
"Hardpan".	41	592
Clay and gravel.	7	599
Clay, multi-colored. . . .	34	633
Clay, blue, sandy.	5	638
Clay, sandy, and shale; water, bailed 55 gpm, dd 75+ ft	4	642
Clay, blue, sticky. . . .	94	736
Clay, blue and gravel. . .	2	738
Sand and gravel; water; test pumped 126 gpm. . .	2	740
Clay with streaks of sand and gravel; water; test pumped 430 gpm.	11	751

Casing: 12-inch, set to 751 ft; perforated from 738-751 ft.

13/1W-20C1. Ted Teitzel. Altitude 280 ft. Drilled by Texas Oil Co., 1947

Materials	Thickness (feet)	Depth (feet)
Gravel.	--	--
Clay, blue.	--	70
Sand, white, bark, wood; water under pressure. . .	5+	75+

Casing: 4-inch, set to 75 ft. Well cemented over.

13/1W-28F1. R.L.Wade. Altitude 360 ft. Drilled by King Bros. 1941.

Materials	Thickness (feet)	Depth (feet)
Clay, yellow.	4	4
Boulders and clay; some water-bearing sand at 16 ft. . .	12	16
Clay, blue; some "shale". .	100	116
Silt and much block wood, water-logged.	16	132
Sand, dark; water under pressure.	3	135

Casing: 6-inch, set to 135(?) ft.

13/1W-29A1. Harry Wulz. Altitude 438 ft. Drilled by Selburn-Washington Oil Co., 1952.

Materials	Thickness (feet)	Depth (feet)
Shale and rocks.	74	74
Shale, blue, and rocks . . .	37	111
Shale and rocks.	62	173
Shale and gravel	100	273
Clay, blue.	80	353
Shale, blue.	30	383
Shale.	118	501
Sand and shale: water under pressure.	86	587
Sand and blue shale.	227	864
Sand and shale.	364	1228
Shale, streaky.	323	1551
Shale streaks, hard shale and sand.	218	1769

Casing: 13-inch, set to 515 ft; plugged at around 515(?) ft. Water below is salty.

13/1W-29Q1. Ed Wulz. Altitude 325 ft. Drilled by Fred, Joe, and Ed Wulz, 1928+.

Materials	Thickness (feet)	Depth (feet)
Sand, clay, and gravel. . .	20	20
Gravel, clean. "Hardpan" at 22 ft.	2	22
Clay, blue with some leaves, wood, etc. Log at 500+ ft	511	533
Sand, medium-grained(comparable to beach sand). . . .	5	538
Basalt(?), gray, hard. . . .	--	538+

Casing set to 90 ft; capped.

Table 2.--Logs of representative wells in Lewis County--Con.

13/1W-29R1. J.E. Deniston. Altitude 347 ft. Drilled by King Bros., 1953.

Materials	Thickness (feet)	Depth (feet)
Gravel and boulders, a little clay on top; a little water at base. . .	35	35
Clay, dark blue, a little sand.	2	37
Clay, light blue.	48	85
Sand, blue, wood; water (20-25 gpm).	3	88
No record.	7	95
Clay, light blue	35	130
Sand and wood; water(10 gpm; water rose to static level of 2½ ft).	2	132
Clay, trace of sand, slick, blue-green-gray. Light-gray clay with no sand but a little water, around 195 ft. . .	83	215
Clay and sand, mixed, harder, blue-green-gray; water. .	10	225
Same, but softer, and loose sand.	15	240
Sand, reddish tint, grains of volcanic material, pumice pebbles; water; smelled strong first few days. .	5	245
Clay, blue.	5	250

Water just flowed over top of casing when first drilled; pressure and yield increased for several weeks to constant level.
Casing: set to 233 ft.

13/1W-30A3. F.B.Smith. Altitude 317 ft. Drilled by Oscar Keto, 1954(?)

Materials	Thickness (feet)	Depth (feet)
Clay, blue.	34	34
Sand and gravel; water. . .	3	37
Clay, blue.	72	109
Sand, fine "mushy"; water; (1½ gpm).	2	111
Clay, blue.	197	308
Sand, hard, gray; water . .	5	313
Clay, blue.	7	320

Casing: 6-inch, set to 308 ft.

13/1W-31P4. Clyde Moore. Altitude 502 ft. Drilled by C.D.Roberts, 1953.

Materials	Thickness (feet)	Depth (feet)
Clay, yellow, sticky. . .	20	20
Gravel, cemented.	20	40
Boulders, small, and gravel	7	47
Gravel, cemented, and clay	23	70
Gravel and sand; water. .	25	95
Gravel and sand; water. .	18	113
Gravel and sand, very tight; water.	22	135
Gravel and sand; some clay	3	138
Gravel and yellow clay, mixed.	5	143
Clay, blue.	3	146

Casing: 8-inch, set to 146 ft, perforated.

13/1W-32A1. Lucian Hamilton. Altitude 335 ft. Drilled by C.D.Roberts

Materials	Thickness (feet)	Depth (feet)
Boulders.	20	20
Clay, blue.	97	117
Sand; some water.	8	125
Clay, blue.	55	180
Sand, fine, blue-gray; water	10	190
Clay, blue.	15	205

Casing: 6-inch, set to 180(?) ft.

13/1W-33D1. Jim Hamilton. Altitude 345 ft. Drilled by C.D.Roberts 1944.

Materials	Thickness (feet)	Depth (feet)
Peat.	3	3
Clay, sandy, several artesian water-bearing layers centering around 20 ft. .	62	65
Gravel, fine; water under pressure.	5	70

Casing: 6-inch.

Table 2.--Logs of representative wells in Lewis County--Con.

13/1W-35A1. L.S. Godsey. Altitude 418 ft. Drilled by Edwin King, 1955.

Materials	Thickness (feet)	Depth (feet)
Topsoil	2	2
Clay, yellow	4	6
Clay and boulders	34	40
Clay, blue	43	83
Sand; a little water	2	85
Clay, blue	74	159
Sand; a little water	2	161
Clay, blue	16½	177½
Sand, gray, and pumice pebbles; smelled at first; water under pressure	7½	185

Casing: 6-inch, set to 178 ft.

13/1W-35B1. Carden Qualls. Altitude 406 ft. Drilled by C. D. Roberts 1950.

Materials	Thickness (feet)	Depth (feet)
No record	80	80
Sand; water rose to surface	2	82
Clay, blue	98	180
Sand(?), fern(?) leaves, and bark; water (static level about 12 ft above land surface)	3	183

Casing: 6-inch, set to 183 ft. Well pumped leaves and bark 2-3 weeks.

13/1W-35M1. Paige Twiss. Altitude 450 ft. Drilled by C.D. Roberts, 1949.

Materials	Thickness (feet)	Depth (feet)
Gravel	20	20
Clay, blue	60	80
Gravel; water	7½	87½

Casing: 6-inch, set to 87½ ft.

13/1W-35M2. Paige Twiss. Altitude 443 ft. Drilled by C. D. Roberts, 1950.

Materials	Thickness (feet)	Depth (feet)
Topsoil	2	2
Clay, blue	73	75
Gravel	3	78

Casing: 6-inch, set to 78 ft.

13/2W-2J2. J. P. Balsam. Altitude 320 feet. Drilled by Roberts and King.

Materials	Thickness (feet)	Depth (feet)
No record	--	--
Clay, blue	--	105
"Quicksand"; water (flowed over top of casing)	35	140
No record	20	160
Clay, blue	50	210
Sand(?)	--	210+

Casing: 6-inch, set to 175 ft.
Owner's memory log.

13/2W-3A1. R.W.Kennicott. Altitude 525 ft. Drilled by C.D.Roberts, 1945.

Materials	Thickness (feet)	Depth (feet)
Topsoil	4	4
Clay, yellow, with badly-weathered gravel	146	150
Sand, coarse, and some fine gravel; water	5	155
Clay, blue; fine, hard, to coarse, sandy. Cedar log at 230 ft	75	230

Casing: 6-inch, set to 150 ft.

13/2W-3G2. Northwest Lumber Co. Altitude 527 ft. Drilled by C.D.Roberts 1954(?).

Materials	Thickness (feet)	Depth (feet)
Topsoil	1	1
Clay, yellow	49	50
Clay, yellow, and soft gravel	21	71
Clay, yellow, gravel, and some sand; a little water	49	120
Sand, gray, and some gravel; water	20	140
Sand, white, and some gravel; water	4	144
Sand, coarse, and gravel; water	8	152
Sand, yellow	3	155
Clay, blue	2	157

Casing: 6-inch.

Table 2.--Logs of representative wells in Lewis County--Con.

13/2W-4P1. City of Chehalis: Test well No. 4. Altitude 189 ft.

Materials	Thickness (feet)	Depth (feet)
Clay and loam.	5	5
Clay.	3	8
Gravel, coarse.	20	28
Gravel, fine, and sand .	4	32
Boulders and gravel. . .	10	42
Clay, silty.	63	105
Silt, sandy, and wood. .	10	115
Sand, coarse and fine gravel: water.	34	149
Clay, plastic.	27	176
Silt and wood.	11	187
Clay, plastic.	22	209
Clay and silt.	11	220
Clay, plastic.	42	262

Casing: 4-inch, set to 40 or 50 ft.

13/2W-5B1. City of Chehalis: Test well No. 2. Altitude 175 ft.

Clay and loam.	8	8
Gravel, coarse and fine.	31	39
Clay, silty.	8	47
Sand and silt.	4	51
Sand, clay and wood. . .	10	61
Clay, silty and wood . .	11	72
Clay, silty, very plastic	26	98
Silt: water.	3	101
Clay, plastic.	29	130
Clay, friable.	14	144
Clay, sandy.	56	200
Clay and sand, abrasive.	48	248
Sandstone, medium-hard .	104	352
Clay and silt.	44	396

Casing: 4-inch, set to 40 or 50 ft.

13/2W-5H1. City of Chehalis. Altitude 183 ft. Drilled by N. C. Jannsen, 1953.

Clay and boulders. . . .	10	10
Sand and gravel.	13	23
Gravel, loose: water . .	16	39
Clay.	53	92
Clay, some gravel . . .	3	95
Sand with gravel: water.	13	108
Clay, wood.	17	125
Clay.	59	184
Clay, with wood, sand, gravel.	71	255

(continued next column)

13/2W-5H1.--continued

Materials	Thickness (feet)	Depth (feet)
Clay, some sand and gravel	35	290
Sand and gravel: water. .	24	314
Clay, sandy.	8	322

Casing: 18-inch, set to 23 ft; 12-inch, set from 0-295 ft; 8-inch, set from 257-322 ft: perforations 12-inch casing 23-39 ft, 96-106 ft; 8-inch casing 295-315 ft.

13/2W-5H2. City of Chehalis: test well No. 1. Altitude 182 ft.

Fill material.	3	3
Clay and loam.	9	12
Gravel, fine.	9	21
Gravel, coarse.	23	44
Clay, silty, plastic . .	30	74
Wood.	1	75
Clay, silty.	17	92
Clay, sandy.	8	100
Gravel and coarse sand, wood: water.	16	116
Silt, wood.	4	120
Clay, medium plastic . .	17	137
Clay, silty, wood. . . .	51	188
Gravel and coarse sand .	1	189
Clay, hard, plastic. . .	93	282
Gravel and coarse sand, wood: water.	19	301
Clay and silt.	44	345
Gravel, fine.	21	366
Clay, hard and plastic, and silt.	42	408

Casing: 4-inch, set to 40 or 50 ft.

Table 2.--Logs of representative wells in Lewis County--Con.

13/2W-5J1. City of Chehalis: test well No. 3. Altitude 180 ft.

Materials	Thickness (feet)	Depth (feet)
Clay and loam.	11	11
Gravel and sand.	19	30
Clay, gravel, and wood. . .	11	41
Clay, silty, friable . . .	12	53
Clay, plastic.	21	74
Clay, silty.	31	105
Clay and sand.	6	111
Sand, coarse: water. . . .	8	119
Clay, silty.	22	141
Clay, sandy.	28	169
Clay, plastic.	20	189
Clay, silty, friable . . .	42	231
Sand, coarse: water. . . .	20	251
Clay, silty.	80	331
Silt.	12	343
Clay, sandy.	39	382
Sandstone, hard, abrasive.	27	409

Casing: 4-inch, set to 40-50 ft.

13/2W-7H3. J.F.Thomas. Altitude 380 ft. Dug by owner, 1940.

Topsoil.	4	4
Clay, sand, and weathered gravel.	28	32
Gravel, weathered, some sandy clay, smooth cobbles 2-6 inches in diameter dispersed throughout. . .	6	38

Curbing: 48-inch, cement, to 6 ft.

13/2W-7J3. J.H. Jones. Altitude 393 ft. Dug by A. Jewell.

Topsoil.	3	3
Clay, blue	29	32
Clay, yellow, and somewhat weathered gravel. . . .	5	37
Consolidated material, fine, with a talc-like feel . .	16	53

Casing: 42-75 inch, concrete, to 17 ft.

13/2W-8E2. --Bradshaw. Altitude 355 ft. Drilled by C.D. Roberts, 1946.

Boulders and clay. . . .	11	11
Boulders.	6	17
Sand.	2	19
Clay, variegated.	32	51
Clay, blue and brown. . . .	31	82
Clay, (blue?).	5	87
Sand, coarse, gray: water .	10	97

Casing: 8-inch, set to 97 ft.

13/2W-8L1. Art Dahl. Altitude 260 ft.

Soil.	3	3
Clay, yellow.	12	15
Clay, blue.	15	30
Sand and wood, fine gravel at base: water.	7	37
Clay, sandy, blue.	63	100
Sand and wood; fine gravel: water at base.	50	150
Clay, blue and sand, somewhat layered.	200	350

Casing: 4-inch, set to 88 ft.

13/2W-9E1. W. J. Schwartz. Altitude 193 ft. Dug by owner, 1946.

Topsoil.	1	1
Clay.	9	10
Sand	2	12
Gravel: water.	13	25

Curbing: 36-inch, cement

13/2W-9P1. Harry Hail. Altitude 200 ft. Drilled by C.D. Roberts, 1952

Gravel, mainly.	20	20
Clay.	14½	34½
Sand and gravel: water. .	2	36½

Casing: 6-inch, set to 34½ ft.

13/2W-10L1. Ed Maurin. Altitude 230 ft. Drilled by J.L.McBride, 1952.

"Rock" and gravel.	42	42
Clay, blue.	68	110
Sand: water.	1	111
Clay, blue, sandy.	24	135
Clay, blue.	220	355
Boulder or hard formation, (basalt?).	--	355+

Casing: 4-inch, set to 42 ft.

(continued next column)

Table 2.--Logs of representative wells in Lewis County--Con.

13/2W-10Q2. Robert Butts. Altitude 242 ft. Drilled by King(?), 1946

Materials	Thickness (feet)	Depth (feet)
Clay, gravelly, brown; water from 50-52 ft. . .	52	52
Clay, blue, "roots" from 140-150 ft.	108	160
Sand; some water.	5	165
Clay, blue.	--	165+

Casing: 6-inch, set to 165 ft; perforated at around 150 ft.

13/2W-12F3. C.R.Emison. Altitude 370 ft. Drilled by Frank Galivan, 1951

Materials	Thickness (feet)	Depth (feet)
Topsoil.	2	2
Clay, yellow.	38	40
Clay, blue, and some sand. Wood at 100 ft and 150 ft	140	180

Casing: 6-inch, set to 180 ft.

13/2W-14N1. Frank Hamilton. Altitude 228 ft. Drilled by J.L. McBride, 1952.

Materials	Thickness (feet)	Depth (feet)
Topsoil.	6	6
Gravel.	51	57
Clay, occasional layers of black sand 2-8 ft thick. Gas, wood, "coal" encountered at various levels. Small artesian water-bearing zone at 95 ft.	237	294
Sand; water under pressure	1	295

Casing: 4-inch, set to 290 ft.

13/2W-15K1. S.C. Breen. Altitude 222 ft. Drilled by J.L. McBride, 1952

Materials	Thickness (feet)	Depth (feet)
Topsoil.	2	2
Clay, plastic; iron-oxide stains.	7	9
Gravel, medium to coarse (gray granite type). . .	14	23
Clay, friable; traces of silt and dark wood; badly faulted from 180-195 ft.	207	230
Silt, hard, with lenses of clay.	9	239
Sand, fine, grayish, with some "heaving"; water	12	251

(continued next column)

13/2W-15K1--continued

Materials	Thickness (feet)	Depth (feet)
Sand, coarse, and fine gravel, with pieces of wood; water under pressure	38	306

Casing: 6-inch, set to 33 ft.

13/2W-15M1. Dennis Hamilton. Altitude 220 ft. Drilled by J.L.McBride 1951.

Materials	Thickness (feet)	Depth (feet)
Topsoil, dark brown. . .	3	3
Clay, silty, light brown	9	12
Gravel, fine to medium; water.	26	38
Clay, plastic, gray-blue, wood traces.	180	218
Clay, friable, silty streaks.	11	229
Sand, fine to coarse, dark gray, wood "float"; water under pressure. .	15	244

Well flowed sand and pieces of wood for a week before being cut down with valve.

Casing: 6-inch, set to 212 ft.

13/2W-15N2. Nathan Hamilton. Altitude 213 ft. Dug by owner.

Materials	Thickness (feet)	Depth (feet)
Topsoil.	1	1
Clay, blue.	4	5
Gravel; water	2	7
Clay, blue.	10	17
Gravel; water.	1	18

Casing: 48-inch, to 16 ft.

13/2W-15R1. Frank Hamilton. Altitude 248 ft. Drilled by McBride and King, 1951.

Materials	Thickness (feet)	Depth (feet)
Topsoil.	6	6
Gravel.	44	50
Clay, with layers of sand. Water under pressure in sand at 95 ft.	220	270
Sand; water under pressure	30	300
Clay.	135	435
Basalt.	--	435+

Wood particles and small amounts of gas encountered in clay 50-435 ft.

Casing: 4-3 inch, set to 260 ft.

Table 2.--Logs of representative wells in Lewis County--Con.

13/2W-15R2. Frank Hamilton. Altitude 225 ft. Drilled by McBride and King, 1952.

Materials	Thickness (feet)	Depth (feet)
Topsoil.	5	5
Gravel.	28	33
Clay; sand, with water under pressure, at 95 and 280 ft	367	400
Basalt.	--	400+

Casing: 6-4 inch, set to 290 ft.

13/2W-16F1. Marvin Hamilton. Altitude 210 ft. Drilled by J.L. McBride, 1952.

Materials	Thickness (feet)	Depth (feet)
Topsoil.	1	1
Clay, brown.	3	4
Clay, brown, and weathered gravel.	8	12
Clay, blue.	130	142
Sand.	3	145
Clay, blue.	95	240
Sand; water under pressure	20	260

Casing: 6-inch, set to 240 ft.

13/2W-16H1. Mollie M. Hamilton. Altitude 211 ft. Drilled by C.F.King

Materials	Thickness (feet)	Depth (feet)
Soil.	5	5
Gravel.	25	30
Clay, blue.	178	208
Sand; water under pressure	--	208+

Casing: 8-inch, set to 30 ft; 6-inch, from 0-196 ft.

13/2W-16J1. Ralph Hearn. Altitude 214 ft. Drilled by C.D.Roberts, 1946.

Materials	Thickness (feet)	Depth (feet)
Gravel and boulders, cemented.	28	28
Clay, blue.	67	95
Clay, sandy, grading downward to "beach" sand; water under pressure . .	10	105

Casing: 6-inch set to 105 ft.

13/2W-19R1. Ed. Milton. Altitude 345 ft. Dug by owner, 1951.

Materials	Thickness (feet)	Depth (feet)
Clay and gravel.	10	10
Sand, "rock", and clay, alternating.	23	33
"Rock" (boulders and cobbles), 1-5 inches in diam.	2	35
(continued next column)		

13/2W-19R1.--Continued

Materials	Thickness (feet)	Depth (feet)
Sand, yellow-brown; very little water. . . .	5	40

Casing: 56 by 56 inches, to 28 ft.

13/2W-21D3. C.D.Roberts. Altitude 420 ft. Drilled by owner, 1948.

Materials	Thickness (feet)	Depth (feet)
Clay, red.	3	3
Clay and weathered gravel	69	72
Sand and gravel; water. .	15	87
Gravel, cemented.	28	115
Gravel, fine, yellow; water	10	125
Gravel and clay, cemented	15	140
Clay, blue.	60	200

Casing: 6-inch, set to 140 ft.

13/2W-21E1. Bonneville Power Adm. Altitude 432 ft. Drilled by O.B. Olson, 1940.

Materials	Thickness (feet)	Depth (feet)
Fill.	4	4
Clay, yellow.	60	64
Clay, sandy.	16	80
Clay, blue.	14	94
Clay, sandy.	14	108
Clay, blue.	19	127
Sand with clay.	7	134
Sand with gravel; water .	10	144
Sand, gravel, clay; water	18	162
Sand and clay.	4	166
Clay, blue.	71	237
Clay, gray.	17	254
Clay, blue.	133	387
"Quicksand"; water. . . .	5	392
Gravel, fine.	13	405
"quicksand"; water . . .	14	419
Clay, blue.	69	488
Clay, black.	10	498
Sand, black.	24	522
Rock, hard, black. . . .	54	576
Clay.	36	612

Casing: 10-inch, set to 262 ft; perforated from 144-154 ft, 8-inch, from 262-550 ft.

Table 2.--Logs of representative wells in Lewis County--Con.

13/2W-21K2. T.M.Balestra. Altitude 440 ft. Drilled by C.D.Roberts, 1953.

Materials	Thickness (feet)	Depth (feet)
Topsoil	2	2
Gravel, soft, and clay	53	55
Gravel and sand; water	25	80
Clay, yellow, with streaks of blue clay	54	134
Clay and gravel	5	139
Gravel and sand	21	160
Clay, yellow, sticky	15	175

Casing: 8-inch, set to 175 ft; perforated from 139-160 ft.

13/2W-21P1. Don Hamilton. Altitude 420 ft. Drilled by J.L.McBride, 1951.

Materials	Thickness (feet)	Depth (feet)
Clay, silty	30	30
Gravel, medium to coarse (unconsolidated)	12	42
Gravel, coarse, sandy	16	58
Clay, gravelly, yellowish (till-like)	47	105
Clay, sandy	20	125
Gravel, medium; saturated from pressure	11	136
Basalt, broken, weathered	5	141
Basalt, unweathered	24	165

Casing: 6-inch, set to 145 ft; perforated from 123-143 ft.

13/2W-21R2. J.C.Carlson. Altitude 441 ft. Drilled by C.D.Roberts, 1954.

Materials	Thickness (feet)	Depth (feet)
Topsoil	3	3
Clay, sticky, red	7	10
Clay, yellow	10	20
Gravel and clay, mixed, yellow	48	68
Gravel, cemented	2	70
Gravel and sand; water	10	80
Gravel and clay	7	87
Clay, yellow, with blue streaks	18	105
Sand; showed a little water	3	108
Clay and silt, mixed	31	139
Sand and gravel "washed"; water	16	155
Clay, yellow and blue	13	168

Casing: 8-inch, set to 168 ft; perforated from 70-80 ft, and from 140-155 ft.

13/2W-22G1. Wm. A. Wichert. Altitude 240 ft. Drilled by C.D.Roberts 1949.

Materials	Thickness (feet)	Depth (feet)
Clay	6	6
Boulders and gravel	18	24
Gravel, cemented	4	28
Sand and some gravel; water	12	40
Clay, sandy, yellow	20	60
Clay, blue	40	100
Sand, fine, gray; water	10	110
Clay, blue	20	130

Casing: 6-inch, set to 130 ft; perforated from 28-40 ft, and from 100-110 ft.

13/2W-26G3. Charles Pederson. Altitude 285 ft. Drilled by Oscar Keto 1953.

Materials	Thickness (feet)	Depth (feet)
Clay, red	30	30
Gravel, small; a little water	2	32
Clay, blue	106	138
Sand, gray, rather loose; water	--	138+

Casing: 6-inch, set to 138 ft.

13/2W-26L1. G.L.Milton. Altitude 315 ft. Drilled by C.D.Roberts, 1946.

Materials	Thickness (feet)	Depth (feet)
Clay, yellowish, some "rock"; water-bearing gravel at 35 ft.	35	35
Clay, blue	105	140
Sand, fine; water	20	160

Casing: 6-inch, set to 145 ft.

13/2W-26M2. J. L. Clement. Altitude 440 ft. Drilled by C.D.Roberts, 1947.

Materials	Thickness (feet)	Depth (feet)
Topsoil	2	2
Clay, red	43	45
Sandstone(?), blue	110	155
Sand, fine; water	5	160

Casing: 6-inch, set to 140 ft. (owner's memory log)

Table 2.--Logs of representative wells in Lewis County--Con.

13/2W-27Q2. R. Q. Fudge. Altitude 442 ft. Dug by A. Jewell, 1950

Materials	Thickness (feet)	Depth (feet)
Topsoil	2	2
Clay	5	7
"Sandstone", gray, friable	6	13
Clay, yellowish, and "rocks"; consolidated but friable: "Rocks" soft. Water at 24ft and 34 ft	21	34

Casing: 44-52 inch, cement, to 12 ft.

13/2W-27Q4. F. L. Holmes. Altitude 439 ft. Drilled by C. D. Roberts, 1952.

Clay, red	10	10
Clay, white, very sticky	10	20
Clay, yellow	2	22
Gravel and boulders	5	27
Gravel, cemented, some sand	10	37
Gravel and some sand: water	8	45
Gravel, cemented	35	80
Sand and gravel: water	4	84

Casing: 6-inch, set to 84 ft.

13/2W-28A1. J. C. Carlson. Altitude 440 ft. Drilled by C. D. Roberts, 1954.

Topsoil	3	3
Clay, yellow	7	10
Clay, sticky, red	10	20
Clay, yellow, and gravel, mixed	53	73
Gravel, cemented	23	96
Clay, yellow	46	142
Gravel and sand: water	18	160
Clay, yellow	5	165
Clay, blue	10	175

Casing: 8-inch, set to 175 ft; perforated from 140-160 ft.

13/2W-28C1. Don Hamilton. Altitude 414 ft. Drilled by J. L. McBride, 1951.

Materials	Thickness (feet)	Depth (feet)
Topsoil, reddish-brown	2	2
Clay, tight and friable, brown	10	12
Gravel, medium to coarse, contained soft, weathered clay balls. "Faulty" zone from 80-95 ft.	28	40
Clay, gravelly, yellowish, till-like	63	103
Sand, medium, sharp: water	11	114
Basalt, weathered	18	132

Casing: 6-inch, set to 132 ft; perforated from 100-116 ft.

13/2W-31B1. Nathan Creemer. Altitude 210 ft. Drilled by C. D. Roberts, 1948.

Clay and gravel	5	5
Gravel and boulders	11	16
Clay, sandy	4	20
Clay, sandy, and shale	4	24
Shale: water at 30 ft	16	40

Casing: 12-inch, set to 20 ft.

13/2W-31C1. Grover Mullins. Altitude 225 ft. Drilled by C. D. Roberts 1947.

Topsoil	6	6
Clay, yellow	14	20
Rock, broken	10	30
Shale	12	42
Sand, coarse, black: water	8	50

Casing: 6-inch, set to 50 ft.

13/2W-31R1. Ed Haase. Altitude 405 ft. Drilled by C. D. Roberts, 1952.

Clay, red	10	10
Clay, yellow, mixed with gravel	50	60
Gravel and sand, cemented	40	100
Gravel and clay, cemented	8	108
Boulders	2	110
Rock, hard, gray (not basalt accorder to driller) upper 2 ft broken	4	114
Clay, blue	11	125
Shale, sandy, black	60	185
Shale, sandy: water	37	222

Casing: 8-inch to 113 ft; 6-inch from 113-222 ft; perforated 186-222 ft.

Table 2.--Logs of representative wells in Lewis County--Con.

13/2W-34A3. Napavine. Altitude 444 ft. Drilled by C. D. Roberts, 1954.

Materials	Thickness (feet)	Depth (feet)
Clay, yellow	60	60
Gravel: water at several levels	41	101
Clay, blue	--	101+

Casing: 8-inch, set to 101 ft; perforated.

13/2W-35B1. D.A.Emerson. Altitude 447 ft. Drilled by C.D.Roberts, 1946.

Materials	Thickness (feet)	Depth (feet)
Topsoil	3	3
Clay, red, most of way(also gravel and sand, some cemented?) Some water at 89 ft (in sand and gravel?)	87	90
Clay, blue	40	130
Sand, fine	9	139

Casing: 4-inch, set to 135 ft.

13/2W-35D3. Paul Miller. Altitude 440 ft. Drilled by C.D.Roberts, 1953

Materials	Thickness (feet)	Depth (feet)
Dug well	25	25
Clay, yellow, and soft gravel	15	40
Gravel, cemented	30	70
Sand and gravel, water	15	85

Casing: 6-inch, set to 85 ft.

13/2W-36N3. J. D. Redwine. Altitude 468 ft. Drilled by C.D.Roberts, 1953.

Materials	Thickness (feet)	Depth (feet)
Topsoil: water	3	3
Clay, red, sticky	15	18
Clay, yellow, and decomposed gravel	10	28
Gravel and cobbles, cemented	4	32
Gravel and sand, cemented	15	47
Sand and gravel: water	16	63
Sand, fine, brown: water	5	68
Gravel, cemented: water	17	85
Sand, fine, brown: water	5	90
Gravel and sand, cemented	5	95
Gravel, coarse and sand: water	2	97
Sand, fine: water	11	108
Gravel and some sand: water	9	117
Clay, yellow, and gravel	3	120

Casing: 8-inch, set to 120 ft; perforated from 50-60 ft, 70-81 ft, 93-95 ft and from 110-115 ft.

13/2W-36P1. J. A. Peterson. Altitude 475 ft. Drilled by C.D.Roberts, 1950.

Materials	Thickness (feet)	Depth (feet)
Clay, red	20	20
Clay, yellow	13	33
Gravel, cemented	7	40
Gravel and sand: water	12	52
Gravel, cemented	6	58
Sand and gravel: water	22	80
Sand and gravel, cemented	21	101
Gravel and sand: water	22	123
Clay, blue	13	136

Casing: 6-inch, set to 136 ft, perforated from 60-80 ft, 95-107 ft, and from 115-123 ft.

13/2W-36Q1. Wm. Eskeli. Altitude 455 ft. Drilled by Oscar Keto, 1953.

Materials	Thickness (feet)	Depth (feet)
Clay	40	40
"Hardpan", gravel	15	55
Gravel and sand, loose: water	7½	62½

Casing: 6-inch, set to 62½ ft.

13/3W-1N1. Frederick Young. Altitude 190 ft. Drilled by C.D.Roberts, 1951.

Materials	Thickness (feet)	Depth (feet)
"Loam"	39	39
Gravel	4	43
Shale	57	100
Shale: water	4	104

Casing: 6-inch, set to 50 ft.

13/3W-2D1. Kenneth Walker. Altitude 283 ft. Drilled by Charles King, 1945.

Materials	Thickness (feet)	Depth (feet)
Soil	12	12
Basalt; joint from 42-45 ft	78	90
Sand, white: water	18	108

Casing: 6-inch, set to 40 ft.

13/3W-2K1. Ted Spence. Altitude 200 ft. Drilled by King Galivan.

Materials	Thickness (feet)	Depth (feet)
Topsoil (and clay?)	--	--
Basalt	--	72
Sand and gravel, white: water	8	80
Sand: water	4	84
Gravel: water	--	98

Casing: 6-inch, set to 65 ft.

Table 2.--Logs of representative wells in Lewis County--Con.

13/3W-2M1. R.T. Coie. Altitude 254 ft. Drilled by Charles King, 1946.

Materials	Thickness (feet)	Depth (feet)
Dug well.	35	35
Basalt, dense, black. . . .	68	103
Sand, white; water.	19	122

Casing: 6-inch, set to 60 ft±.

13/3W-2M3. Jerry Peters. Altitude 240 ft. Drilled by Frank Galivan, 1951.

Materials	Thickness (feet)	Depth (feet)
Topsoil.	10	10
Basalt.	80	90
Sandstone (charred log directly under basalt) . .	18	108
Sand, white; water.	6	114

Casing: 6-inch, set to 25 ft.

13/3W-3A1. Lester Finley. Altitude 240 ft. Drilled by Charles King 1941+

Materials	Thickness (feet)	Depth (feet)
Dug well.	32	32
No record	8	40
Basalt.	79	119
Rock, soft; water	11	130

Casing: 6-inch.

13/3W-3B2. Anton P. Erp. Altitude 240 ft. Drilled by O. Erdman, 1942.

Materials	Thickness (feet)	Depth (feet)
Soil, clayey; water at 16 ft	16	16
Sandstone.	17	33
Shale, dark blue.	32	65
"Softer material"; water. .	5	70
Hard formation.	2	72

Casing: 6-inch, set to 32 ft.

13/3W-3R5 (in next column)

13/3W-5G1. C.L.Black. Altitude 205 ft. Drilled by Frank Galivan, 1952.

Materials	Thickness (feet)	Depth (feet)
Soil, clayey.	26	26
Clay, blue.	4	30
Gravel, "river".	4	34
Clay or silt.	--	--
Sandstone; water.	--	168

Casing: 8-inch, set to 125 ft.

13/3W-3R5. J.E.Schwarz. Altitude 197 ft. Drilled by Frank Galivan 1952.

Materials	Thickness (feet)	Depth (feet)
Soil.	4	4
Rock, solid (basalt?) . . .	56	60
Sand, white; water.	15	75

Casing: 6-inch, set to 60 (?) ft.

13/3W-7J2. Arthur Anderson. Altitude 255 ft. Drilled by V. W. Athey, 1952.

Materials	Thickness (feet)	Depth (feet)
Clay.	18	18
Rock, hard (basalt?). . . .	70	88
"Sand rock", black.	7	95
"Sand rock", green; yield 7 gpm at 135 ft.	62	157
"Sand rock", gray; yield 12 gpm at 160 ft.	3	160

Casing: 6-inch, set to 24 ft.

13/3W-8G2. Tanksley. Altitude 238 ft. Drilled by Frank Galivan, 1949.

Materials	Thickness (feet)	Depth (feet)
Clay, red.	25	25
Rock.	85	110
Gravel; water.	(?)	(?)

(Well is 150 ft deep) Casing: 6-inch, set to 25 ft.

13/3W-8G3. Earl Anderson. Altitude 240 ft. Drilled by Frank Galivan 1946.

Materials	Thickness (feet)	Depth (feet)
"Dirt" and blue sandstone .	48	48
Rock.	85	133
"Dirt", and sandstone or gravel; water.	39	172

(Well is 172 ft deep) Casing: 6-inch, set to 48 ft.

13/3W-8K1. C.A.Lindstedt. Altitude 240 ft. Drilled by V.W.Athey 1952.

Materials	Thickness (feet)	Depth (feet)
Soil, clayey.	18	18
Rock, black.	69	87
Sandstone, gray.	25	112
Sand, dark green, and (?) .	63	175

Casing: 6-inch, set to 36 ft.

Table 2.--Logs of representative wells in Lewis County--Con.

13/3W-9G4. Art Scherer. Altitude 185 ft. Bored by owner. 1947.

Materials	Thickness (feet)	Depth (feet)
Topsoil.	6	6
Sandy formation: water . .	28	34
"Hardpan".	2	36
Gravel: water.	½	36½

Casing: 10-inch, tile, set to 36½ ft.

13/3W-12D1. F.L. Young. Altitude 240 ft. Drilled by C.D.Roberts, 1944.

Materials	Thickness (feet)	Depth (feet)
Gravel, weathered.	80	80
Gravel, weathered: water .	10	90
Rock, very hard (basalt) .	20	110
Clay, blue.	40	150

Casing: 6-inch, set to 90 ft.

13/3W-30P1. Harry Fenn. Altitude 239 ft. Drilled by Chas. King, 1946.

Materials	Thickness (feet)	Depth (feet)
Soil, clayey.	12	12
Shale, blue.	88	100
Sandstone, soft, brown: water at about 165 ft.	65	165
Sand, black: water(?) . .	47	212

Casing: 6-inch, set to 30 ft.

13/4W-3L. C. Christin. Altitude 260 ft. Drilled by C. Frye.

Materials	Thickness (feet)	Depth (feet)
Loam, sandy.	12	12
"Hardpan", (gravel) . . .	15	27
Clay, blue ("gumbo"). . .	38	65
Sandstone: water.	16	81

Casing: 8-inch.

13/4W-6P1. L.J.Doktor. Altitude 285 ft. Drilled by Oscar Keto, 1952.

Materials	Thickness (feet)	Depth (feet)
Topsoil.	4	4
Gravel.	10	14
Sandstone.	35	49
Clay, black ("gumbo") . .	7	56

Casing: 6-inch, set to 56 ft.

13/4W-8C1. Mayne Perry. Altitude 278 ft. Dug by owner.

Materials	Thickness (feet)	Depth (feet)
Topsoil.	4	4
Gravel, fine	4	8
Boulders ("old river bed")	8	16
Sandstone; slopes to south	8	24
Gravel: water.	1	25

Casing: 30-inch, cement to 25 ft.

13/1-14E1. L.R.Temple. Altitude 855 ft. Drilled by Oscar Keto, 1953.

Materials	Thickness (feet)	Depth (feet)
Clay, red.	30	30
Clay, red, with some soft gravel; 10 gpm at 118 ft.	88	118
Clay, sandy, red, with some gravel.	152	270
Sand, hard, gray.	5	275
Clay, blue.	50	325
Gravel, fine: water. . . .	5	330

Casing: 6-inch, set to 276 ft; perforated from 125-140 ft and at bottom.

13/1-14R1. Martin Jacobson. Altitude 665 ft. Drilled by C.D.Roberts, 1945.

Materials	Thickness (feet)	Depth (feet)
Topsoil.	6	6
Gravel, rock, clay: rusty water at 16 ft.	20	26
Unknown.	10	36
Sand, white: water. . . .	14	50
Clay, blue.	--	50+

Casing: 6-inch, set to 40 ft.

13/1-17R1. Gordon Lundeen. Altitude 732 ft. Drilled by Oscar Keto, 1953.

Materials	Thickness (feet)	Depth (feet)
Clay(?).	70	70
Sand and gravel: water at 73 ft and below	63	133
Clay, blue.	27	160

Casing: 6-inch, set to 125 ft.

Table 2.--Logs of representative wells in Lewis County--Con.

13/1-19K2. R.R. Szelap. Altitude 690 ft. Drilled by C.D.Roberts, 1952.

Materials	Thickness (feet)	Depth (feet)
Clay, yellow.	25	25
Clay and small boulders .	12	37
Gravel and broken rock, mixed.	31	68
Gravel and sand, cemented	34	102
"Sandrock", blue; water .	18	120
Gravel and sand mixed with clay.	3	123
Sand and gravel, packed .	5	128
Sand and gravel, washed; water.	30	158
Gravel and coarse sand. .	4	162
Open pocket (sand?) . . .	6	168
Sand.	14	182
Clay, blue.	2	184

Casing: 10-inch, set from 0-158 ft; perforated from 107-115 ft, and from 128-155 ft. 6-inch, set from 0-182 ft; perforated from 142-182 ft.

13/1-20F2. M.F. Clark. Altitude 695 ft. Drilled by Edwin King, 1955.

Materials	Thickness (feet)	Depth (feet)
Clay, reddish-yellow, and some rocks; a little water at about 35 ft.	35	35
Clay, gravel, and boulders (similar to that from 90-200 ft in well 13/1-30C2) Could drill ahead of casing until 150 ft±. At 185 ft static level 155 ft, and slow recovery.	150	185
Clay, blue; wood and pumice pebbles.	40	225
Sand, fine, a little wood; pumped 30 gpm, with a little sand.	2	227
Clay, blue; wood and pumice pebbles.	8	235
Clay with thin beds of sand (¼-inch and thicker); total sand thickness probably 5 ft±; wood and pumice pebbles.	28	263

(continued next column)

13/1-20F2.--continued

Materials	Thickness (feet)	Depth (feet)
Pumped 100 gpm (hole open from 235-263 ft); pumped sand. Tried various-sized screens, but yield low when sand cut out. Tried slotted pipe; yield 98 gpm, increasing to 170 gpm in 43 hrs, but pumped sand steadily (1 tablespoon/gallon of water).		
Clay, a little wood. . . .	32	295
Sand, finer than that from 225-227 ft; red caste; very little hard, black wood .	1½	296½
Clay.	4	300½
Sand.	3½	304
Clay, soft, damp, blue, sandy (squeezed into drill-hole)	21	325
Same, but sandier.	1	326
Clay, blue; red-brown streaks (smeared-out wood?). Added water from 326-405 ft. "Smelled like Nisqually River mud-flats". Hard layer (splinters of tan wood) Somewhere from 326-405 ft. Static level 170 ft, when cased to 330 ft.	79	405

Casing: -inch, set to 234 ft, not perforated. Static level 148 ft.

13/1-22R1. C.E.Greene. Altitude 600 ft. Drilled by Frank Galivan, 1952-53.

Materials	Thickness (feet)	Depth (feet)
Topsoil, dirt, gravel. . .	12½	12½
Gravel, cemented; sand; water at about 30 ft. . .	47½	60
Sand, coarse, with some small gravel.	4	64
Clay, blue, a little sticky, with wood.	83	147
Hard material	3	150
Sand, fine to medium "granite color"(black and white grains) Water under pressure(originally flowed 300 gpm). . .	--	150+

Casing: 8-inch, set to 67 ft and slotted from 50-60 ft; slotted casing removed a week later, as water leaked up around casing, and 8-inch unperforated casing set to 150 ft.

Table 2.--Logs of representative wells in Lewis County--Con

13/1-22R2. C.E.Greene. Altitude 600 ft. Drilled by Charles King, 1953.

Materials	Thickness (feet)	Depth (feet)
Surface dirt.	2	2
Gravel and boulders, cemented.	16	18
Sand and clay, muddy, blue; water.	17	35
Clay, brown, and wood . .	55	90
Clay, blue; gray-white streaks (pumice?). . . .	30	120
Sand, blue, and wood; water	2	122
Clay, blue; lumps and streaks.	23	145
Sand, blue, and black wood; water.	5	150

Casing: 8-inch, set to 113 ft.

13/1-26R1. Wiley Rhodes. Altitude 960 ft. Dug by owner, 1940.

Materials	Thickness (feet)	Depth (feet)
Dirt and rocks.	20	20
Gravel, cemented.	6	26
Gravel and dirt; pebbles blue, yellow, and red, some soft.	12	38

No water

13/1-30C2. Palo Tade. Altitude 710 ft. Drilled by Edwin King, 1954.

Materials	Thickness (feet)	Depth (feet)
Clay, yellow.	90	90
Clay, yellow, sand, gravel, and boulders; some cemented, some water-bearing.	110	200
Clay, blue.	8	208

Casing: 8-inch, set to 200 ft; perforated from 130-195 ft.

13/1-31P1. D.C.Jensen. Altitude 470 ft. Drilled by Frank Galivan, 1953.

Materials	Thickness (feet)	Depth (feet)
Gravel and clay; saturated; couldn't pump water out (creek nearby was full).	35	35
Clay, blue; had to add water all the way. . . .	88	123
Sand (beach-sand size) blue-gray; water under pressure.	5	128

Casing: (6-inch?), set to 90 ft.

13/1-32B1. C.A.Jorgensen. Altitude 505 ft. Drilled by Edwin King, 1955.

Materials	Thickness (feet)	Depth (feet)
Mud, sandy, blue; surface mushy.	13	13
Clay, blue.	47	60
Wood.	2	62
Clay, blue.	60	122
Clay, blue; includes a water-bearing sand member (water under pressure).	8	130
Clay, blue.	--	130+

Casing: 6-inch, set to 122 ft.

13/1-32C1. Orville Day and Ralph Sawyer. Altitude 500 ft. Drilled by Frank Galivan, 1952.

Materials	Thickness (feet)	Depth (feet)
Gravel, boulders, and dirt	12	12
Clay, blue, sticky. . . .	40	52
Gravel, fine, and coarse sand. Weathered volcanic and granitic water-worn pebbles. Pumice pebbles. Water-bearing.	--	52+

Casing: 6-inch, set to 52(?) ft.

13/1-32M2. Ed Guiberson. Altitude 485 ft. Drilled by Edwin King, 1955.

Materials	Thickness (feet)	Depth (feet)
Clay, gravel, and sand, reddish; yield 5 gpm. . .	45	45
Clay, blue; water under pressure at 125 ft. . . .	80	125
Clay, blue-gray; didn't have to case off to drill. . .	85	210

Casing: 6-inch, set to 108 ft.

13/1-35F2. J. F. Simpson. Altitude 807 ft. Crilled by Charles Rubey, 1955.

Materials	Thickness (feet)	Depth (feet)
Clay, "rusty".	48	48
Clay, sand, gravel, and boulders; not cemented. .	30	78
Gravel, cemented; cleaner at bottom. Sample from base showed dense and coarse varicolored volcanic small pebbles, generally sub-rounded to sub-angular, but polished. Hung up on (boulder?) at base.	42	120

Casing: 6-inch, set to 114 ft.

Table 2.--Logs of representative wells in Lewis County--Con.

13/4-33R1. H.M.Justice. Altitude 920 ft. Dug by owner, 1953.

Materials	Thickness (feet)	Depth (feet)
Clay, gravel, and sand. . .	7½	7½
Clay, blue.	19	26½
Sand and gravel: water. . .	1	27½
Gravel, clean, dark: water.	2½	30
Clay, soft, very blue, sticky (could cut with knife). .	1	31

Casing 18-inch tile.

14/1W-7N1. Matt Beck. Altitude 240 ft. Drilled by King Bros., 1930.

No record.	40	40
Coal.	10	50
No record.	25	75
"Bedrock".	44	119
Sandstone, soft: water. . .	6	125

Casing: 4-inch, set to 75 ft.

14/2W-4E1. Northern Pacific Railway Co. Altitude 190 ft. Drilled by N. C. Jannsen, 1934.

Gravel, coarse.	20	20
Sand, coarse.	1	21
Gravel, coarse.	14	35
Gravel, coarse, with a little sand.	3	38
Sand and gravel.	1	39
Gravel, coarse.	6	45
Gravel, loose.	5	50
Gravel, loose, mised with sand	6	56
Clay, blue.	7	63

Casing: 26-inch set from 0-38 ft, and 16-inch set from 0-57 ft; perforated from 38-53 ft. Cement grouting between 26-inch and 16-inch casing.

*14/2W-4P1 (next column)

14/2W-5F1. City of Centralia, well No. 4. Altitude 185 ft. Drilled by N. C. Jannsen, 1935.

Clay and gravel.	12	12
Gravel and boulders, loose	50	62
Gravel, finer.	7	69
Gravel, mi. ed with some sand; signs of water.	7	76
Gravel: water.	8	84
No record.	2	86
Gravel.	4½	90½

(continued next column)

14/2W-5F1.--continued

Materials	Thickness (feet)	Depth (feet)
Shale, (clay), hard. . . .	2½	93

Casing: 26-inch, set from 0-39 ft, and 16-inch, from 0-90 ft; perforated from 40-87 ft. Cement grout between casings.

*

14/2W-4P1. City of Centralia(test hole). Altitude 200 ft. Drilled by N. C. Jannsen, 1934.

Clay, yellow.	20	20
Shale, blue.	110	130
Shale, hard.	2	132
Shale.	32	164
Shale, hard.	110	274
Shale, hard, dark. . . .	101	375
Shale, hard, layers of sandstone.	51	426
Shale.	34	460
Sandstone, very hard, blue, and layer of shale. . .	23	483
Sandstone, gray, hard . .	1	484
Shale, gray.	6	490
Sandstone, hard.	3	493
Shale and hard sandstone layer.	32	525
Shale, gray, soft	35	560
Sandstone.	20	580
Shale, gray, sandy. . . .	28	608
Sandstone, hard.	22	630
Shale, sandy.	40	670
Sand, hard.	10	680
Shale.	40	720
Sand, some water; water flows 3 gpm, bailer test 20 gpm drawdown 120 ft..	3	723
Wood, rotten.	14	737
Shale, carbonaceous, soft, and poor-grade coal. . .	9	746
Sandstone, soft.	9	755
Sandstone, white, soft. .	13	768
Sandstone, hard.	8	776
Sandstone, white.	12	788
Limestone, very hard. . .	3	791
Limestone, hard.	2	793
Sandstone.	13	806
Shale, blue.	10	816
Sandstone, white, soft. .	9	825
Sandstone.	12	837
Coal.	7	844
Shale.	6	850
Sandstone, coal showing at 845 ft (small amount). .	12	862
Coal.	5	867
Sand.	5	872
Coal.	5	877
Sandstone, very hard. . .	4	881

(continued next page)

Table 2.--Logs of representative wells in Lewis County--Con.

14/2W-4P1. --continued

Materials	Thickness (feet)	Depth (feet)
Sandstone, cemented, very hard.	4	885
Coal	4	889
Sandstone, hard.	49	938
Sandstone.	10	948
Coal.	6	954
Shale, brown, hard	31	985
Shale, gray, sticky.	18	1003

No water encountered in upper 600 ft; small seepages came in below that depth.

14/2W-5G1. City of Centralia, well No 3. Altitude 185 ft. Drilled by N. C. Jannsen, 1935.

Gravel, coarse.	28	28
Gravel, fine, and sand.	2	30
Gravel, coarse.	9	39
Gravel, cemented.	8	47
Stones, large, and coarse gravel.	10	57
Gravel, fine, and some sand	6	63
Gravel, fine (largest about 2 inches in diam).	10	73
Gravel and sand.	7	80
Gravel and clay	4	84
Clay.	2	86
Sandstone	3	89
Sandstone, black.	6	95

Casing: 26-inch, set from 0-38 ft, and 16-inch, set from 0-84 ft; perforated from 42-82 ft. Cement grout between casings.

14/2W-5G2. City of Centralia, well No. 5. Altitude 185 ft. Drilled by N. C. Jannsen, 1935.

Clay, yellow.	10	10
Gravel, few large rocks	78	88
Clay.	--	88+

Casing: 26-inch, set from 0-39 ft, and 16-inch set from 0-88 ft; perforated from 41-85 ft. Cement grout between casings.

14/2W-5H1. City of Centralia, well No. 2. Altitude 185 ft. Drilled by N. C. Jannsen, 1935.

	Thickness (feet)	Depth (feet)
Gravel, loose.	15	15
Gravel, loose, and large boulders.	2	17
Gravel, loose.	5	22
Gravel, loose, mixed with some brown sand.	4	26
Stones, large, and loose gravel.	4	30
Gravel.	1	31
Gravel, loose, and stones	8	39
Gravel, loose.	6	45
Gravel, loose, and sand; packed sand at 46 ft.	4	49
Sand and gravel, some large stones.	4	53
Gravel and sand.	2	55
Gravel, loose, and sand; some large stones.	3	58
Gravel and stones.	7	65
Gravel and stones; some clay	2½	67½
Clay.	4½	72

Casing: 26-inch, set from 0-39 ft, and 16-inch set from 0-68 ft; perforated from 43-66 ft. Cement grout between casings.

14/2W-6N1. R.V.Grainger. Altitude 162 ft. Drilled by C.D.Roberts, 1951.

Clay.	7	7
Sand.	3	10
Gravel and sand: water.	26	36
Gravel and coarse sand: water	20	56

Casing: 6-inch, set to 56 ft; perforated.

14/2W-7L1. K.H.Verd. Altitude 167 ft. Drilled by E.U.Posey, 1948.

Soil, clayey.	5	5
Shale, blue.	40	45
Sand: water (10 gpm)	42	87

Casing: 6-inch, set to 67 ft.

Table 2.--Logs of representative wells in Lewis County--Con.

14/2W-7Q1. George Finni. Altitude 180 ft. Drilled by Oscar Keto, 1950.

Materials	Thickness (feet)	Depth (feet)
Sand, fine, and clay, yellow; mixed	60	60
Gravel, small, and sand; water	7	67
Clay, blue	--	67+

Casing: 6-inch, set to 67 ft.

14/2W-10R2. Floyd Watson. Altitude 565 ft. Drilled by Charles King 1953.

Materials	Thickness (feet)	Depth (feet)
Clay, blue	120	120
Clay and fine gravel	155	275
Gravel, coarse, cobbles, and some petrified wood; wood	25	300

Casing: 6-inch, set to 300 ft.

14/2W-14N1. Norman Wirta. Altitude 230 ft. Drilled by Fox Bros., 1946.

Materials	Thickness (feet)	Depth (feet)
Clay	45	45
No record	--	--
Coal	--	--
No record	--	60
Sand; water	59	119

Casing: 6-inch, set to 111 ft.

14/2W-16E2. Francis Watterson. Altitude 175 ft. Drilled by Oscar Keto, 1951.

Materials	Thickness (feet)	Depth (feet)
Clay, blue	42	42
Sand, fine; water	2	44
Clay, blue; a little water in sandy shale at 65 ft)	58	102

Casing: 6-inch, set to 82 ft.

14/2W-16J1. T.J.Thompsen. Altitude 170 ft. Drilled by Oscar Keto.

Materials	Thickness (feet)	Depth (feet)
Loam, sandy clay	18	18
Peat and some "Quicksand"	3	21
Clay or shale, blue-gray, sticky	20	41
Clay, "heavy", blue	7	48
Sand and gravel, clean	11	59
Sandstone; water	20	79
"Coal roof"	--	--

Casing: 6-inch, set to 61 ft.

14/2W-17D3. J.J.Collins. Altitude 175 ft. Drilled by C.D.Roberts, 1952.

Materials	Thickness (feet)	Depth (feet)
Sand	50	50
Gravel, fine (thin layer)	--	--
Clay, blue (thin layer)	--	--
Sand(?); water	--	63

Casing: 6-inch, set to 63 ft.

14/2W-17E1. Leonard Santee. Altitude 175 ft. Drilled by C.D.Roberts, 1946.

Materials	Thickness (feet)	Depth (feet)
Loam, black	3	3
Clay, red	22	25
"Quicksand"	25	50
Gravel; water	3	53

Casing: 6-inch, set to 50 ft.

14/2W-19H4. Bridgett Emrich. Altitude 175 ft. Driven(?) by Charles White, 1940(?).

Materials	Thickness (feet)	Depth (feet)
"Quicksand" and logs	65	65
Gravel	10	75
Clay(?)	215	290
Very hard layer (basalt?)	1½	291½
Sand(?); water	8½	300

Casing: (2?)-inch, set to 150 or 175 ft.

14/2W-22H1. Oscar Keto. Altitude 240 ft. Drilled by Oscar Keto, 1944.

Materials	Thickness (feet)	Depth (feet)
No record	--	--
No record, some water	--	30
No record	--	--
Sand, coarse, gray; good supply of water	--	60
Coal	8	68
Shale, brown, and sand generally; alternate layers. Salt water at 275 ft. Gas and salt water under pressure at 1200 ft.	1132	1200

Casing: 4-inch, set to 800 ft; 2-inch, set from 800-1200 ft.

Table 2.--Logs of representative wells in Lewis County--Con.

14/2W-22K1. Oscar Keto. Altitude 560 ft. Drilled by Oscar Keto, 1941.

Materials	Thickness (feet)	Depth (feet)
Clay(?)	--	--
Sand(?)	--	200
Gravel, weathered, yellow-brown	133	333
Shale, gray, sandy	25	358
Coal	2	360
Sand, gray; water from 418-460 ft (10 gpm)	100	460
Shale, light brown, sandy toward bottom	25	485
Clay(?), dark brown, sticky	15	500
Shale, light brown; sandy at top	95	595
Sand, gray; some shells	25	620
Clay, gray, sticky; shells at top	80	700
Shale, gray and brown; showings of gas and oil	60	760
Shale, light green and gray	10	770
Shale, brown	35	805
Shale, green, sticky	7	812
Shale, brown; streaks of coal; gas and oil showings	8	820
Shale, brown and gray, mixed with fine sand; gas pressure increased with depth; gas and water boiled over bailer	70	890
Shale, green; shells and gas	110	1000
Shale, brown; shells and coal streaks	90	1090
Shale and clay, gray, and fine sand; oil colorings and gas	30	1120
Sand, gray, and water	10	1130
Sand, gray; salt water and gas	51	1181
Sand, rock	4	1185
Sand, fine, chalky	5	1190
Sand, fine, white; salt water	25	1215
Clay, dark gray	15	1230
No record	395	1625
Shale	10	1635
Lime	15	1650
No record	150	1800

Encountered propane gas from 1545-1575 ft; paraffin oil from 1615-1625 ft.

14/2W-23M1. A.E.Edwards. Altitude 230 ft. Drilled by (J.L.McBride)? 1951

Materials	Thickness (feet)	Depth (feet)
Overburden	15	15
Sandstone, friable	2	17
Siltstone, fossiliferous, greenish-gray; some carbonaceous beds and thin coal streaks	49	66
Sandstone, friable, greenish-gray; some siltstone interbeds	14	80
Siltstone, largely carbonaceous; rare sandy interbeds	18	98
Sandstone, silty, fossiliferous	96	194
Siltstone, with sandy beds; very thin-bedded and highly fossiliferous	107	301

Casing: none.

14/2W-23P1. Tom Moran. Altitude 230 ft. Dug.

Sand, clay and fine gravel; coal seam (3½-ft) between 35 and 45 ft	65	65
Clay, yellow, and angular cobbles	10	75
Shale, blue	10	85

Casing: 48 by 48-inch, wood to 50 ft.

14/2W-26M1. B.R.Anderson. Altitude 560 ft. Drilled by E.U. Posey, 1947.

Topsoil, clay	4	4
Clay, hard, yellow	2	6
Gravel, weathered, red and brown	--	--
Clay, white	--	100
Sand, fine, white; water	4	104

Casing: 6-inch, set to 100 ft.

14/2W-28Q1. Tom Hampson. Altitude 195 ft. Drilled by Oscar Keto, 1953.

Clay, sandy	30	30
Clay, hard, gray	30	60
Sand, coarse, gray; water	10	70
Clay, light gray	5	75

Casing: 6-inch, set to 60 ft.

Table 2.--Logs of representative wells in Lewis County--Con.

14/2W-28Q2. Tom Hampson. Altitude 195 ft. Drilled by C.D.Roberts, 1952.

Materials	Thickness (feet)	Depth (feet)
Clay(?)	65	65
Shale	75	140
Coal	5	145

Casing: none.

14/2W-31C1. City of Chehalis(Test well). Altitude 180 ft. Drilled by N. C. Jannsen, 1953.

Materials	Thickness (feet)	Depth (feet)
Loam, sandy, and alluvium	35	35
Sand, fine, much fairly-fresh wood: water	1	36
Clay, brown, and gravel	29	65
Clay, blue, tough(gummy)	62	127

Casing: 8-inch, set to 65 ft.

14/2W-31P1. City of Chehalis (Test well). Altitude 180 ft. Drilled by N. C. Jannsen, 1953.

Materials	Thickness (feet)	Depth (feet)
Silt, grading to sand	25	25
Sand and fine gravel(basaltic and volcanic)	14	39
Basalt(?)	11	50
Clay, silty, micaceous, blue green-gray	165	215
Clay, blue-gray, silty, and blue-gray silty shale, alternately	20	235
Shale, silty, blue-gray, micaceous(ash-gray soft bentonite or limy layer from 325-327 ft)	195	430
Clay, fine, sandy, blue-gray, micaceous	60	490
Same, with shells(scaphopods and pelecypods)	30	520
Sand, clayey, rusty-colored, medium to fine; shells	20	540
Sand, coarse, micaceous, rust-colored	5	545
Clay, sandy, blue-gray; shells	35	580
Clay, pure(siltstone?) shells(few boulders about 12 by 12" from 605-624ft)	44	624
Clay, sandy(80-85% clay) blue-gray; shells	109	733
Clay, little sand, blue-gray; shells	77	810
Clay, blue-gray, about 25% sand; shells	9	819
Limestone, dense, dark blue-gray	1	820
Clay, sandy, blue-gray; shells	14	834
Clay, shells; passed thru limestone layer	22	856
Clay or siltstone, slick, finely micaceous, gray-brown blue-green blend; shells, passed thru limestone layer	18	874
Same, in limestone	48	922
Siltstone, finely micaceous, some color; passed thru limestone layer; shells	23	945
Same, but no limestone	21	966
Claystone or siltstone, blue; shells	21	987
Claystone or siltstone, about 50% with coarse sand or fine gravel; shells	22	1009
Same; shells more scattered	22	1031

(continued next column)

14/2W-31P1.--continued.

Casing: 8-inch, set to 40 ft. Gravel-packed to 40 ft(3 yds of gravel)

Test well

14/2W-31P2. City of Chehalis./Altitude 180 ft. Drilled by N. C. Jannsen, 1953.

Materials	Thickness (feet)	Depth (feet)
Sand, fine, brown	21	21
Silt (stood up)	8½	29½
Clay, fine-sandy, blue	5½	35
Hard material (basalt?)	9	44
Clay, blue	6	50

Casing: 8-inch, set to 35 ft.

14/2W-31P3. City of Chehalis(test well). Altitude 180 ft. Drilled by N. C. Jannsen, 1953.

Materials	Thickness (feet)	Depth (feet)
Silt	21	21
Gravel, medium-sized	1½	22½
Clay, sandy, yellow-brown; some medium-sized gravel which may have come from above	11½	34
Hard material (basalt?)	--	34+

Casing: 8-inch, set to 30 ft.

Table 2.--Logs of representative wells in Lewis County--Con.

14/2W-31Q1. City of Chehalis. Altitude 180 ft. Drilled by N.C.Jannsen 1953.

Materials	Thickness (feet)	Depth (feet)
Dirt (silt)	14	14
Sand, fine	3	17
Gravel, ½-inch to 1½-inch in size; streak of blue clay from 21-22 ft.	14	31
Clay, blue	3	34

14/2W-34E1. Lloyd Macamber. Altitude 245 ft. Drilled by C.D.Roberts, 1947. (owner's memory log)

Clay	100	100
Sandstone	30	130
Sand, fine, black; water	--	130+

Casing: 6-inch, set to 100 ft.

14/3W-1B1. J.E.Miller. Altitude 165 ft. Drilled by C.D. Roberts, 1948.

Gravel and black dirt	4	4
Boulders	6	10
Sand and gravel	4	14
Gravel and sand, cemented	6	20
Sand, brown	5	25
Sand and gravel, packed	13	38
Gravel and sand; water	8	46

Casing: 6-inch, set to 46 ft.

14/3W-1J2. John Meiers. Altitude 169 ft. Drilled by T.J.Pollmor, 1948

Gravel	20	20
Sand	8	28
"Hardpan" (clay and gravel)	7	35
Gravel; water (10 gpm)	4	39
Sand	14	53
Gravel	2	55

Casing: 6-inch, set to 55 ft.

14/3W-2L1. Al Harting. Altitude 350 ft. Dug by owner.

Dirt	2	2
Clay	10	12
"Hardpan"	2	14
Sand	2	16
"Hardpan"	1	17
Clay	1	18

(continued next column)

14/3W-2L1.--continued.

Materials	Thickness (feet)	Depth (feet)
"Hardpan"	2	20
Sand	2	22
Rocks, yellow, soft	5	27
(Lava rock)?, vesicular	--	27+

Casing: 36 by 36-inch, brick, to 27 ft.

14/3W-2L2. Al Harting. Altitude 340 ft. Dug by owner.

Dirt	2	2
Clay	20	22
Sand, coarse, gray; water	3	25
Gravel; water	20	45

Casing: 72-inch, brick.

14/3W-11F3. C. Sareault. Altitude 390 ft. Dug.

Clay, sandy	10	10
Gravel, fine and coarse; water	25	35
"Shale rock"	--	35+

Casing: 36-inch, brick, to 35 ft.

14/3W-12H1. Joe Graf. Altitude 173 ft. Dug by owner.

Soil	3	3
Clay	5	8
Rock, blue	12	20
Gravel; water	2	22

Casing: 48-inch, brick, to 20 ft.

14/3W-13C2. P.H.Brooks. Altitude 185 ft. Drilled by King, 1952.

Loam, black	2	2
Clay, blue	48	50
Gravel; water	3	53

Casing: 6-inch, set to 50 ft.

Table 2.--Logs of representative wells in Lewis County--Con.

14/3W-26P1. Stanley Tufts and Raul Yott. Altitude 470 ft. Drilled by King, 1953.

Materials	Thickness (feet)	Depth (feet)
Old hole; mostly blue clay, apparently some coal	200	200
Clay, blue	345	545
"Sandstone", medium to fine, micaceous, with clay and silt; bits of shell, wood; scattered small rounded pebbles of white quartz; water at some levels	105	650
Similar, with more shells	50	700
Sand, fine, gray, woody; water	75	775

Casing: 6-inch, set to 555 ft.

14/3W-28J3. A.J.Givens. Altitude 470 ft. Drilled.

Clay	52	52
Clay and sand, blue	92	144
Sand and gravel; water	7	151

Casing: 6-inch, set to 151 ft; perforated from 145-151 ft.

14/3W-34R1. Al Bieker. Altitude 250 ft. Drilled by C.D.Roberts, 1948.

No record	47	47
"Hard formation" (basalt?)	53	100
"Mud"	25	125

Casing: none. (Owner's memory log)

14/3W-35P1. Clara McDonald. Altitude 350 ft. Drilled by Charles King 1943.

Soil	30	30
Clay, "mucky", blue	25	55
Shale	4	59
Shale or clay	13	72
Sand(?); water rose to top of casing	8	80
Basalt, jointed; water. Static level 88 ft.	16	96

Casing: 6-inch, set to 80 ft.

14/3W-35Q1. Carl Wenzelberger. Altitude 320 ft. Drilled by Charles King, 1935±.

Materials	Thickness (feet)	Depth (feet)
Soil and clay	14	14
Basalt	56	70
Sand, white; water(water rose to 30 ft)	3	73

Casing: 6-inch, set to 14 ft.

14/3W-36H1. Kelly Hamilton. Altitude 180 ft. Drilled by Frank Galivan, 1955.

Clay, yellow, brown, and blue	30	30
Sand, medium to fine; water (cased off)	10	40
Clay, blue; water somewhere from 40-148 ft.	98	138

Casing: 0-inch, set to 64 ft. (Sand from 30-40 ft cased off, as well pumped sand)

14/3W-36K1. Art Hamilton. Altitude 180 ft. Drilled by C.D. Roberts 1949.

Clay	48	48
Sand and gravel; water.	10	58
Shale, blue	35	93

Casing: 6-inch, set to 93(?) ft; perforated from 48-58 ft.

14/3W-36Q1. Art Hamilton. Altitude 180 ft. Drilled by C.D.Roberts 1944.

Clay, brown (material changes at 30 ft and 50 ft)?	80	80
"Sandstone"; water, bears inflammable gas	140	220

Casing: 8-inch, set to 80 ft, and 6-inch, set to (?).

Table 2.--Logs of representative wells in Lewis County--Con.

14/1-32P1. Max Hopp. Altitude 610 ft. Drilled 1948.

Materials	Thickness (feet)	Depth (feet)
Clay, yellow	6	6
Clay, blue	19	25
Coal	6	31
Clay, blue	39	70
Sand, fine, blue	5	75
Clay, variously light and dark blue	100	175

Casing: (?)-inch, set to 40 ft (Did not encounter enough water to drill with).

14/5-17B1. U.S. Forest Service, Mineral Ranger Station. Drilled by Tacoma Pump & Well Drilling Co.

Topsoil	5	5
Clay, brown, sand and gravel	18	23
Sand and clay: water	10	33
Sand and gravel: water	2	35
"Hardpan"	8	43
Sand and gravel: water	2	45
"Hardpan" and rock	23	68
Sand, coarse: water	2	70
Clay and rock	40	110
Clay, porous: water	5	115
Clay	5	120

Casing: 6-inch, set to 90 ft; perforated from 43-45 ft, from 68-70 ft, and from 110-115 ft.
(Well is in Lewis County, but north of area mapped)

15/1W-29M1. Nolan Peterson. Altitude 250 ft. Drilled by A. Foote, 1946+.

Old hole (Puget Group?)	56	56
Clay, blue	16	72
Coal	9	81
Coal, soft, and clay mixed	18	99
Coal	20	119
Clay ("gumbo"), black	28	147
Coal	2	149
Clay, sticky, black	26	175
Clay, lighter color	11	186
Clay, light, sandy	9	195
Clay, darker	14	209
Clay, coal	5	214
Clay, dark, brown	5	219

(continued next column)

15/1W-29M1--continued

Materials	Thickness (feet)	Depth (feet)
Coal	12	231
Sandstone, light gray, clay mixed	21	252
Sandstone	6	258
Sandstone, softer	2	260
Sandstone, very fine, light gray	50	310
Coal	3	313

Casing: 4-inch.

15/2W-26N1. H.F.Johnson. Altitude 225 ft. Drilled by --Davis, 1951.

Clay	18	18
"Soapstone"	37	55
Sand: water	--	55+

Casing: 8-inch, set to 55 ft.

15/2W-29L1 (see page 325)

15/2W-31F5. Pacific Sand and Gravel Co. Altitude 166 ft. Drilled by C.D. Roberts, 1946.

Gravel and boulders	11	11
Boulders, gravel, and sand	12	23
Gravel and clay, mixed	20	43
Gravel and sand: water	12	55
Gravel: water	5	60
Sand: water	5	65
Gravel: water	18	83
Shale, blue, and gravel, mixed	29	112

Casing: 12-inch, set to 112 ft; perforated from 45-58 ft, from 68-76 ft, and from 78-88 ft.

15/2W-31L4. N.A.Bishop. Altitude 169 ft. Drilled by C.D.Roberts, 1952.

Gravel and coarse sand	10	10
Gravel and sand, cemented	23	33
Sand and gravel: water	24	57

Casing: 6-inch, set to 57 ft.

15/2W-31N1. F.M.Moses. Altitude 170 ft. Drilled by C.D.Roberts, 1950

Pit (no log)	13	13
Sand	2	15
Gravel and sand, cemented	10	25
Gravel and sand: water	28	53

Casing: 6-inch, set to 53 ft; perforated from 35-48 ft.

Table 2.--Logs of representative wells in Lewis County

15/2W-29L1. Stoker Mining Co. Altitude 305 ft. Drilled by T. Prather, 1951.

Materials	Thickness (feet)	Depth (feet)
Landslide material.	21	21
Siltstone, carbonaceous chocolate brown, with greenish-gray siltstone.	10	31
Coal seam.	7	38
Sandstone, greenish-gray, fine, felspathic, slightly micaceous; silty in part.	117	155
Siltstone, slightly sandy . .	54	209
Sandstone, fine, friable, faintly-bedded, slightly micaceous, slightly tuffaceous; thin calcareous zones. . . .	139	348
Siltstone, greenish-gray. . .	3	351
Coal seam (thin interbeds of coal and bone).	4	355
Sandstone, fine, slightly micaceous.	30	385
Siltstone, increasingly clayey with depth	16	401

Well is cemented from 0-20 ft.

15/2W-34J1. A. B. Dace. Altitude 450 ft. Drilled by T. Prather, 1950.

Sand and gravel (sand mostly decomposed to clay, and pebbles, iron-stained). . . .	25	25
Siltstone, mostly carbonaceous	82	107
Claystone and siltstone, interbedded.	38	145
Sandstone, with thin-bedded siltstone and claystone; (some water at 170-180 ft. according to owner).	93	238
Siltstone, sandy to clayey, fossiliferous, calcareous in part.	42	380
Sandstone, with siltstone interbeds (water, according to owner).	21	401

Well is cemented from 0-20 ft.

Table 2.--Logs of representative wells in Lewis County--Con.

15/2W-32G1. T.R.Parrish. Altitude 193 ft. Drilled by Richardson Well Drilling Co., 1951.

Materials	Thickness (feet)	Depth (feet)
Clay, yellow and topsoil. .	4	4
Sand, coarse, and gravel. .	2	6
"Hardpan" with streaks of clay.	12	18
Sand, coarse gravel, and some clay.	18	36
"Hardpan".	12	48
Clay and gravel.	2	50
Gravel and some sand, fairly loose.	6	56
Sand, coarse, and loose gravel	3	59

Casing: 10-inch, set to 59 ft.

15/2W-32K2. W.P.Johnson. Altitude 185 ft. Drilled by Charles King, 1952.

Materials	Thickness (feet)	Depth (feet)
Topsoil.	6	6
Sand, gravel, and clay. . .	24	30
Gravel, dirty.	2	32
Gravel: water.	2	34

Casing: 6-inch, set to 34 ft.

15/2W-32K3. Helmer Nyman. Altitude 185 ft. Drilled by Richardson Well Drilling Co., 1951.

Materials	Thickness (feet)	Depth (feet)
Dirt, black, and gravel . .	5	5
Clay and gravel.	6	11
Sand and gravel.	20	31
Sand, coarse, and gravel. .	4	35
Sand, gravel, and clay. . .	8	43
Sand, coarse, and gravel. .	3	46
"Hardpan".	10	56
Sand, black, fine and coarse	1	57
Gravel and coarse sand, loose	3	60

Casing: 6-inch, set to 60 ft.

15/2W-32Q2. M.J.Martinell. Altitude 185 ft. Drilled by Oscar Keto, 1952.

Materials	Thickness (feet)	Depth (feet)
Dug well (sand, gravel, clay?)	29	29
"Hardpan".	4	33
Gravel: water.	8	41

Casing: 6-inch, set to 41 ft.

15/2W-33D1. C.R.Linderman. Altitude 200 ft. Drilled by C.D.Roberts, 1948.

Materials	Thickness (feet)	Depth (feet)
Topsoil.	4	4
Boulders and gravel. . .	8	12
Sand and gravel, cemented	8	20
Sand, coarse, and gravel: water.	7	27

Casing: 6-inch, set to 27 ft.

15/2W-33E4. C.G.Blanchard. Altitude 200 ft. Drilled by --Kroy, 1948

Materials	Thickness (feet)	Depth (feet)
Clay.	7	7
Gravel, "big".	23	30
Gravel, fine.	5	35

Casing: 6-inch.

15/2W-34J1 (See page 324)

15/3W-25K4. V.F.Cain. Altitude 163 ft. Drilled by Oliver Erdman, 1950.

Materials	Thickness (feet)	Depth (feet)
Topsoil.	10	10
Gravel, sand, and clay .	20	30
Sand.	20	50
Gravel: water	19	69

Casing: 6-inch, set to 69 ft; perforated from 49-65 ft.

15/3W-26J2. F.H.Watson. Altitude 150 ft. Drilled by Edwin King, 1952.

Materials	Thickness (feet)	Depth (feet)
Topsoil.	2	2
Sand.	5	7
Sand and gravel, dirty .	23	30
Gravel, coarse, and some sand: water.	5	35

Casing: 8-inch, set to 35 ft.

15/3W-26K3. I. Matheny. Altitude 150 ft. Drilled by C.D.Roberts, 1951

Materials	Thickness (feet)	Depth (feet)
Sand and gravel.	7	7
Sand.	2	9
Gravel and sand, cemented	19	28
Gravel and sand: water .	25	53

Casing: 8-inch, set to 53 ft; perforated from 32-48 ft.

Table 2.--Logs of representative wells in Lewis County--Con.

15/3W-35L4. G.G. Ingalls. Altitude 155 ft. Drilled by --Bell, 1928.

Materials	Thickness (feet)	Depth (feet)
Soil.	8	8
Gravel.	12	22
"Hardpan"	4	26
Gravel, fine.	16	42
Clay.	22	64
Sand.	4	68

Casing: 6(?)-inch, set to 64(?) ft.

15/3W-36F2. Leo Seifert. Altitude 165 ft. Drilled by James Smith, 1941

Dirt.	16	16
No record	2	18
"Hardpan".	6	24
Sand.	4	28
Sand and gravel: water. . .	2	30
Sand.	4	34
Sand, clay.	3	37
(Gravel, coarse)?: water. .	17	54

Casing: 7-inch, set to 54 ft.

15/3W-36H3. J.Gehrman. Altitude 164 ft. Drilled in 1945.

Gravel and sand.	38	38
"Hardpan".	3	41
Gravel.	6	47
Gravel: water.	6	53

Casing: 6-inch.

15/3W-36K2. Clifford Reisinger. Altitude 165 ft. Drilled by King, 1942.

Gravel, "Spanaway type" . .	15	15
Sand, fine.	6	21
"Hardpan".	2	23
Gravel.	9	32
Sand.	6	38

Casing: 8-inch, set to 54 ft; perforated from 48-54 ft.

15/3W-36L3. P. M. Steelhammer. Altitude 165 ft. Drilled by E. U. Posey(?), 1948.

Materials	Thickness (feet)	Depth (feet)
Dirt.	8	8
Gravel.	4	12
Sand.	6	18
Gravel: water.	25	43

Casing: 6-inch, set to 43 ft.

Table 3.--Records of Representative springs
(Locations of springs are shown in Lewis County, Washington on plates 1A, 1B, and 1C)

Topography and approximate altitude: M, march or swamp; S, scarp or steep slope. Altitude of land surface at spring interpolated from topographic maps.

Yield: The letter "R" preceding the yield indicates the yield has been reported by the owner or user of the spring.

Use: D, domestic; Irr, irrigation; PS, public supply; S, stock.

Remarks: FT, field test for chemical quality (see table 6).

Spring number	Owner or tenant	Altitude (feet)	Water-bearing material	Occurrence	Yield: Gallons per minute (GPM)	Yield: Date	Use	Temperature °F (Temp)	Remarks
T. 11 N., R. 1 W.									
1R1s	..	S, 185	Gravel, coarse	Seep	22½	10-16-52	..	51	FT.
7R1s	--Leonard	S, 230	Gravel	..	..	..	D,S	53	Little seasonal fluctuation. FT.
8E1s	Town of Toledo	M, 240	..	..	R-90	..	PS	..	
8H1s	Henry Bonham	S, 240	Gravel	Discharges from gravel overlying blue clay	..	..	D,S	54	Little seasonal fluctuation.
11G1s	--Kerkendoll	S, 200	Gravel	..	..	..	D,S	51	Little seasonal fluctuation. FT.
15D1s	--Due	S, 200	Gravel	..	..	..	D	58	Flow decreases in fall.
17K1s	Joe Wallace	S, 190	Gravel	..	..	..	D	53	Little seasonal fluctuation.
19K1s	T. E. Smith	S, 120	Gravel	Discharges from gravel overlying blue-gray siltstone	R- 5	..	D,S	53	Flow decreases in fall. FT.
19M1s	Erland Aboen	S, 120	Gravel	..	..	..	D,S	52	Flow dependable. FT.
20L1s	A. Blake	S, 130	Gravel	..	..	..	D,S	52	Little seasonal fluctuation. FT.
21N1s	W. Kent	S, 140	Gravel	..	..	..	D	52	.... Do ....
21P1s	I. S. Coverdell	S, 200	Gravel	Seep	R- 7	..	D	..	Little seasonal fluctuation.
24C1s	Joe Rensing	S, 340	Clay	Seep	..	..	D	51	Flow decreases in fall. FT.

Table 3.--Records of representative springs

Spring number	Owner or tenant	Altitude	Water-bearing material
T. 11 N., R. 1 W.			
28M1s	Guy Brown	S. 180	Gravel
29H1s	W. F. Pratt	S. 220	Gravel, cemented
32M1s	G. D. Turner	S. 300	Clay
T. 11 N., R. 2 W.			
4D1s	--Egbert	S. 380	Gravel
5J1s	C. Brown	S. 380	Gravel
11N1s	K. R. Breidenstein	S. 340	Gravel and clay
11R1s	J. D. Farmer	S. 240	Gravel
13E1s	--Wetherington	S. 180	Gravel
18Q1s	Earl Wakefield	S. 280	Clay
23H1s	Archie Reed	S. 140	Gravel
25D1s	W. E. Buswell	S. 140	Gravel
T. 11 N., R. 3 W.			
18G1s	Howard Detering	S. 530	Gravel
T. 11 N., R. 2 E.			
9J1s	Jerry Belcher	M. 940	Clay
10J1s	Earl Clowe	S. 1030	Clay
16B1s	S. E. Weaver	S. 1170	Clay
T. 11 N., R. 4 E.			
3E1s	W. E. Coleman	S. 800	Gravel
10B1s	Alice Rea	S. 1300	"
T. 11 N., R. 6 E.			
6C1s	F. C. MacDonald	S. 1100	"
T. 12 N., R. 1 W.			
20F1s	Z. G. Inman	S. 460	Clay, yellow and gravel

in Lewis County, Washington--Con.

Occurrence	Yield GPM	Yield Date	Use	Temp °F	Remarks
Discharges from gravel overlying blue clay		"	D,S	54	Little seasonal fluctuation. FT.
. . . . . do.		"	D	"	Little seasonal fluctuation.
"		"	D	"	. . . . Do. . . .
Seeps from gravel overlying "hardpan"	R-300	"	D	"	Flow decreases in fall.
"	"	"	D,S	51	Flow dependable. FT.
"	R- 13	"	D,S	53	Little seasonal fluctuation.
"	R- 12	"	D,S	53	Little seasonal fluctuation. FT.
"	"	"	D,S	54	Flow decreases in fall.
"	"	"	D,S	"	. . . . Do. . . .
"	"	"	D,S Irr	"	Flow decreases in fall. FT.
"	"	"	D,S	53	Flow decreases in fall.
"	"	"	D,S	"	Little seasonal fluctuation.
"	R- 1	"	D	"	Little seasonal fluctuation. Supplies two homes.
"	"	"	D,S	"	Little seasonal fluctuation. FT.
"	R- 1	"	D,S	"	Little seasonal fluctuation.
"	R- 5	"	D	"	Little seasonal fluctuation. Supplies two homes.
"	R- 5	"	D,S	"	Little seasonal fluctuation. Supplies three homes.
"	R- 3	"	D	"	Flow decreases in fall. Supplies 6 homes.
"	"	"	D,S	"	Flow dependable.

Table 3.--Records of Representative springs in Lewis County, Washington--Con.

Spring number	Owner or tenant	Altitude	Water-bearing material	Occurrence	Yield GPM	Yield Date	Use	Temp °F	Remarks
T. 12 N., R. 2 W.									
5F1s	H. L. Zumwalt	S, 310	Clay	..	..	..	D	..	Flow decreases in fall.
21B1s	Milton Donaldson	S, 435	Gravel, cemented	..	..	..	D	49	Little seasonal fluctuation.
T. 12 N., R. 1 E.									
1L1s	R. E. Allie	M, 580	Gravel, cemented	..	..	..	D	..	.... Do ....
12D1s	Charles Montgomery	S, 680	Gravel	..	..	..	D	..	Little seasonal fluctuation. Supplies 2 homes.
14C1s	John Christian	S, 590	Gravel	..	R- 3	..	D	52	Little seasonal fluctuation.
21Q1s	P. B. Balfour	S, 230	Gravel	..	..	..	D	52	.... Do ....
22M1s	W. E. Stepp	S, 310	Gravel	Discharges from gravel overlying blue sandy clay	R- 6	..	D	50	.... Do ....
22Q1s	Taylor Bros.	S, 295	Gravel	::	.. 8	7-6-55	..	49	FT.
28N1s	B. F. Newnham	S, 180	Sand and gravel	::	..	..	D,S	48	FT.
T. 12 N., R. 2 E.									
1Q1s	S. C. Carson	S, 460	Gravel	..	..	..	D,S	49	Flow decreases in fall. FT.
2A2s	W. W. Core	S, 600	Gravel	..	..	..	D,S	..	Little seasonal fluctuation.
6G1s	H. L. Morgan	S, 800	Gravel	..	..	..	D	..	.... Do ....
7F1s	Paul Hadaller	S, 860	Gravel	..	..	..	D,S	52	.... Do ....
9G1s	Joe Colman	S, 450	Gravel	..	..	..	D	..	.... Do ....
10L1s	Clarence Stiltner	S, 460	Gravel	..	..	..	D	49	Flow decreases in fall. FT.
11F1s	Washington State Fish Hatchery	S, 400	Gravel	Discharges from 3 openings	R-2400	..	D	51	Little seasonal fluctuation. FT.
17D1s	..	S, 880	Gravel	..	R- 9	..	D,S	51	Little seasonal fluctuation. Supplies eight homes.
21Q1s	M. Stacy	M, 440	Gravel	..	R- 33	..	D	49	Little seasonal fluctuation. FT.
T. 12 N., R. 3 E.									
7D1s	P. H. Birley	S, 600	Gravel	..	..	..	PS	49	.... Do ....
16L1s	W. N. Blankenship	S, 960	Clay, gray	..	..	..	D,S	..	Supply low in summer.
19H1s	Ethyl Stehe	S, 850	Rock, soft, red	..	R- 3	..	D,S	..	Flow decreases in fall.
36N1s	Harry Bowen	S, 1850	..	..	R- 5	..	D	..	Little seasonal fluctuation.
T. 12 N., R. 4 E.									
3M1s	Isaac Crumb	M, 1000	Clay	..	R- 3	..	D	..	Little seasonal fluctuation. FT.
9M1s	Ellis Compton	S, 1350	Basalt(?)	..	R- 5	..	D	..	.... Do ....
19K1s	Mary Workman	M, 550	..	..	R- 5	..	D	..	Little seasonal fluctuation.

Table 3.--Records of Representative springs

Spring number	Owner or tenant	Altitude	Water-bearing material
T. 12 N., R. 5 E.			
29J1s	Harold Hill	S, 850	Basalt(?)
31P1s	Ed Stiltner	M, 630	Sand and fine gravel
T. 12 N., R. 6 E.			
9E1s	Owen Huddleston	S, 1350	Gravel
T. 13 N., R. 2 W.			
1D1s	J. H. Gossett	S, 400	Gravel
12A1s	Richard Keckeis	S, 490	Gravel
22E1s	Harry Gleason	S, 320	Sand, red
30L1s	C. F. Norman	S, 250	Sand
T. 13 N., R. 3 W.			
21K1s	F. T. Smith	S, 650	Clay
28Q1s	Elmer Swinth	S, 970	Gravel
T. 13 N., R. 4 W.			
7F1s	Rainbow Falls State Park	S, 440	..
22G1s	William Tracy	S, 250	Clay, yellow
33G1s	--Wendling	S, 500	..
T. 13 N., R. 1 E.			
11R1s	Gene Frase	S, 780	Gravel
20R1s	Town of Onalaska	S, 596	Gravel (loosely-cemented)
28K1s	Ralph Nehring	S, 620	Sand and gravel
32F1s	G. P. Metress	S, 480	..
T. 13 N., R. 2 E.			
6L1s	Vern Dickey	S, 1200	Clay, brown
T. 13 N., R. 4 E.			
25R1s	Josh Evans	S, 1225	Clay
T. 14 N., R. 2 W.			
24G1s	Dr. Emil Matz	S, 340	Sandstone, yellow

in Lewis County, Washington--Con.

Occurrence	Yield GPM	Yield Date	Use	Temp °F	Remarks
..	R- 5	..	D	..	Little seasonal fluctuation.
..	R- 5	..	D	..	.... Do ....
..	R- 5	..	D,S	..	Flow decreases in fall. FT.
..	..	..	D	..	Little seasonal fluctuation.
..	..	..	D,S	..	Little seasonal fluctuation. Supplies two homes.
..	R- 3	..	D,S	..	Little seasonal fluctuation. FT.
..	R- 3	..	D,S	..	.... Do ....
..	..	..	D	..	Flow decreases in fall.
..	..	..	D	..	.... Do ....
..	R- 5	..	PS	..	.... Do ....
..	R- 1	..	D	..	Little seasonal fluctuation.
..	..	..	D	..	.... Do ....
..	..	..	D,S	..	.... Do ....
..	R-50-75	..	PS	50	Flow dependable. FT.
..	..	..	D	50	Little seasonal fluctuation.
..	..	..	D	..	.... Do ....
..	R- 5	..	D,S	..	Flow decreases in fall.
..	R- 5	..	D	..	.... Do .... FT.
..	..	..	D,S	..	Little seasonal fluctuation.

Table 3.--Records of Representative springs

Spring number	Owner or tenant	Altitude	Water-bearing material
T. 14 N., R. 3 W.			
2D1s	--Bates	S, 240	Clay
18N1s	Cecil Wallis	S, 330	Clay
24A1s	Carl Hanke	S, 230	Clay, blue
25C1s	H. Herriford	M, 190	Clay
30M1s	Don Duey	S, 375	Gravel
T. 14 N., R. 4 W.			
22B1s	J. C. Studham	S, 400	Clay, yellow
35H1s	Sol Ralph	S, 425	Gravel
36K1s	Carl Johnson	S, 300	Gravel
T. 15 N., R. 1 W.			
30L1s	C. A. Benz	S, 250	..
T. 15 N., R. 2 W.			
29B1s	C. Lowery	S, 200	..
31R1s	--Eckerson	S, 240	Clay, blue
34J1s	A. B. Dace	S, 470	Sandstone
T. 15 N., R. 3 W.			
27P1s	Les Webster	S, 275	Gravel
28G1s	V. Thompson	S, 200	Clay
34N1s	E. Steinbrenner	S, 225	..
T. 15 N., R. 4 W.			
15H1s	L. England	S, 180	Gravel
26H1s	Cliff Wasson	S, 350	Clay
27R1s	--Kosola	S, 310	Clay
32R1s	F. S. Browning	S, 260	..
36R1s	Otis Childers	S, 360	Clay, blue
T. 15 N., R. 5 W.			
25E1s	Troy Baker	S, 275	Gravel

in Lewis County, Washington--Con.

Occurrence	Yield GPM	Yield Date	Use	Temp °F	Remarks
..	R- 1	..	D	..	Little seasonal fluctuation.
..	..	..	D	..	.... Do ....
..	R ½	..	D	..	.... Do ....
..	..	..	..	..	.... Do ....
..	..	..	D,S	..	.... Do ....
..	..	..	D,S	..	.... Do ....
..	..	..	D	..	.... Do ....
..	R ½	..	D	..	.... Do ....
..	..	..	D,S	..	Flow decreases in fall.
..	..	..	D	..	Little seasonal fluctuation. FT.
..	..	..	D	..	Has been pumped dry.
..	..	..	D,S	..	Little seasonal fluctuation.
..	..	..	D,S	..	.... Do ....
..	..	..	D,S	..	.... Do ....
..	..	..	D,Irr	..	.... Do ....
..	..	..	D,S	..	Flow decreases in fall. FT.
..	..	..	D	..	Little seasonal fluctuation.
..	R ½	..	D	..	.... Do ....
..	..	..	D,S	..	Little seasonal fluctuation. Supplies two homes
..	..	..	D	..	Flow decreases in fall.
..	R 1	..	D	..	Little seasonal fluctuation.

Table 4.--Chemical analyses of ground water from Lewis County
(Chemical constituents in parts per million)

Well or spring number / Date of collection	11/1W-8E2 8-25-53	11/1W-14L2 12-2-53	11/2W-29P1 6-27-52	11/2W-32C1 3-24-48	11/2W-32C1 4-22-48	11/2W-32D1 2-17-48
Temperature °F	52	51	..	..	..	..
Silica (SiO_2)	42	46	27	14	..	17
Iron (Fe)	.17	.10	10	.2	1.0	0.9
Manganese (Mn)	..	..	..	..	..	..
Calcium (Ca)	13	12	25	8.9	8.9	11
Magnesium (Mg)	6.5	4.9	8.7	5.8	6.2	8.7
Sodium (Na)	12	6.5	..	..	..	..
Potassium (K)	2.0	.8	..	..	..	..
Bicarbonate (HCO_3)	101	67	138a	125a	271a	154a
Carbonate (CO_3)	..	..	0	..	..	..
Sulfate (SO_4)	1.9	2.3	0	0	0	0
Chloride (Cl)	3.0	1.0	17	18	563	8.3
Fluoride (F)	.2	.1	..	..	..	..
Nitrate (NO_3)	.1	3.8	..	..	..	..
Boron	.05	.04	..	..	..	..
Dissolved solids	126	114	..	..	..	..
Hardness as $CaCO_3$	59	50	98	46	48	63
Percent sodium	30	22	..	..	..	..
Specific conductance (micromhos at 25°C)	156	126	..	..	..	..
pH	7.3	7.6	7.0	7.5	8.9	7.5
Analyst /	U.S.G.S	U.S.G.S.	N.P.R.	N.P.R.	N.P.R.	N.P.R.

/ L., Laucks Laboratories; N. W., Northwest Laboratories; N.P.R., Northern Pacific Railway; U.S.G.S., United States Geological Survey
a. Total alkalinity as HCO_3

Table 4.--Chemical analyses of ground water from Lewis County
(Chemical constituents in parts per million)

Well or spring number	12/2W-10N1	12/1E-9Q1	13/1W-19Q1	13/1W-28P1	13/2W-5H1	13/2W-15M1
Date of collection	1-23-53	12-2-53	8-22-52	2-11-53	1952	1-8-53
Temperature °F	50	51	..	52	..	52
Silica (SiO_2)	38	7.9	..	28	34	28
Iron (Fe)	1.6	.14	..	.42	.1	.32
Manganese (Mn)	.00	..	..	.00	..	.00
Calcium (Ca)	6.4	4.0	56	11	28	41
Magnesium (Mg)	2.8	3.3	2.6	5.9	13	11
Sodium (Na)	7.2	4.9	255	44	128	155
Potassium (K)	1.2	11	..	1.6	..	3.7
Bicarbonate (HCO_3)	51	16	..	141	148 a	154
Carbonate (CO_3)	..	..	..	..	0	..
Sulfate (SO_4)	1.2	2.5	Trace	.3	1.3	.4
Chloride (Cl)	2.4	5.0	449	20	197	260
Fluoride (F)	.1	.3	..	.2	.1	.2
Nitrate (NO_3)	.1	28	..	3.9	.1	.4
Boron	.02	.02	< .5	.03	..	0.19
Dissolved solids	..	109	..	..	483	..
Hardness as $CaCO_3$	27	24	..	52	123	148
Percent sodium	35	22	..	64	..	69
Specific conductance (micromhos at 25°C)	87	126	..	290	..	1,070
pH	6.8	6.6	7.6	7.2	7.1	7.6
Analyst	U.S.G.S.	U.S.G.S.	L.	U.S.G.S.	N. W.	U.S.G.S.

a. Total alkalinity as HCO_3

Table 4.--Chemical analyses of ground water from Lewis County
(Chemical constituents in parts per million)

Well or spring number	13/3W-2F1	13/1E-19K2	14/2W-4E1	14/2W-5F1	14/2W-5H1	15/3W-36K2
Date of collection	12-3-53	5- 3-54	6-27-52	..	..	5-24-54
Temperature °F	52	50	..	..	..	52
Silica (SiO_2)	36	60	27	32	32	26
Iron (Fe)	.46	.09	1.0	.15	.5	.04
Manganese (Mn)	..	.00	..	..	..	.00
Calcium (Ca)	4.8	8.7	12	22	23	12
Magnesium (Mg)	4.3	6.0	6.2	6.7	5.4	3.1
Sodium (Na)	13	7.4	..	..	..	6.5
Potassium (K)	2.0	1.7	..	..	..	.9
Bicarbonate (HCO_3)	49	72	42a	69a	79a	34
Carbonate (CO_3)	..	0	0	0	0	..
Sulfate (SO_4)	10	1.3	9.8	9.0	6.6	6.8
Chloride (Cl)	4.0	2.1	14	27	14	8.6
Fluoride (F)	.4	.1	..	..	..	.1
Nitrate (NO_3)	.0	.3	..	..	..	13
Boron	.04	.05	..	..	..	.03
Dissolved solids	104	111	..	..	..	96
Hardness as $CaCO_3$	30	46	55	82	80	43
Percent sodium	47	25	..	..	..	24
Specific conductance (micromhos at 25°C)	110	120	..	..	..	128
pH	7.1	7.1	6.3	7.1	7.2	6.5
Analyst	U.S.G.S.	U.S.G.S.	N.P.R.	N.P.R.	N.P.R.	U.S.G.S.

a. Total alkalinity as HCO_3

Table 5.--Results of field tests, in parts per million, of hardness, chloride content and alkalinity of water from wells in Lewis County.

Well number	Depth of well (feet)	Depth of aquifer (feet)	Hardness as $CaCO_3$	Chloride (Cl)	Total Alkalinity as HCO_3	Appearance
11/1W-1D1	13	10-12	42	10	55	Clear
-2G1	15	15-	34	6	49	Turbid
-2H1	18	8-18	28	8	--	Clear
-4D1	75	---	40	14	--	Clear
-5H4	70	68-70	62	8	73	Clear
-5N1	44	---	58	6	92	Clear
-6D1	201	201-	22	8	122	Clear
-8E2	79	58-78	62	4	107	Sand, fine
-14E1	55	---	56	6	79	Clear
-14L2	57	---	50	7	79	Clear
-15C1	113	---	66	10	110	Clear
-16E2	156	52-55	67	3	116	Clear
-16P2	36	33(?)-36	62	6	165	Clear
-16R1	31	---	22	6	--	Clear
-20N1	55	54-55	82	6	140	Clear
-29M1	38	---	71	20	110	A little "rusty"
-30M1	26	---	70	10	128	Clear
-30R1	27	---	120	30	232	Yellow in winter
11/2W-1A2	22	20-26	22	48	--	Clear
-3R1	59	---	11	5	98	Somewhat "rusty"
-4A1	98	86-98	24	6	54	"Rusty"
-9M1	61	50(?)-61	36	8	67	Clear
-9N2	287	107-133	30	10	83	Clear
-10R1						Clear
-11N1	63	37-59	80	12	165	Clear
-12R1	53	50-53	60	4	98	Some clay
-15A1	45	---	76	18	150	Clear
-22H1	67	63-67	66	10	--	Clear
-34R2	60	48	50	8	79	Some fine sand
-35E1	36	---	35	12	49	Clear
-36A2	67	67-	34	36	9(?)	Somewhat "rusty"
11/1W-14D1	23	---	56	20	67	Clear
-18P1	65	---	162	22	250	"Rusty"
-29Q1	200	---	118	392	140	Clear
12/1W-4K1	35	---	14	7	--	Clear
-5E1	128	100-128	40	8	--	Clear
-5H1	33	---	81	15	--	Clear
-8Q1	22	---	14	8	--	--
-9A1	33	---	47	6	--	Clear

Table 5.--Results of field tests, in parts per million, of hardness, chloride content and alkalinity of water from wells in Lewis County.--Con.

Well number	Depth of well (feet)	Depth of aquifer (feet)	Hardness as $CaCO_3$	Chloride (Cl)	Total Alkalinity as HCO_3	Appearance
12/1W-9B2	35	--	56	20	24	Clear
-9E2	110	--	29	4	--	Clear
-9J2	29	--	32	8	--	Clear
-9L1	19	--	14	7	--	Clear
-10C1	38	--	14	8	18	Clear
-10G3	29+	--	13	6	--	Clear
-11B1	30	--	28	18	30	--
-11C1	22	14-22	24	7	--	Clear
-12P1	46	--	32	10	--	Clear
-12P2	40	--	--	8	--	Clear
-13J2	115	100-115	42	8	--	Clear
-14J1	30	--	26	13	--	"Rusty" in fall
-16M2	99	92-98	104	14	122	Very "rusty"
-18E1	26	--	10	6	18	Clear
-18M1	87	60-88	64	6	--	Clear
-19N1	44	--	32	14	13	Clear
-21C1	17	--	115	19	--	Brown
-21P2	15	14-15	100	12	--	Somewhat "rusty"
-23N1	22	18-22	40	10	--	Clear
-23R1	32	--	14	8	12	--
-24A2	43	--	33	6	--	--
-24N1	38	--	26	8	--	Slightly "rusty"
-25R1	36	28-36	32	7	--	Clear
-27H1	19	--	20	8	--	
-28F1	16	--	38	15	43	Clear
-28F2	16	--	64	8	--	"Milky"
-28P1	16	--	16	8	--	Clear
-32G1	20	--	30	13	18	Clear
-32G4	18	--	22	11	18	Clear
-32Q1	21	--	26	12	28	--
-33L1	40	--	64	12	38	Clear
-34D2	30	--	26	6	--	--
-34J1	32	--	54	6	--	Clear
-34R1	51	--	56	10	--	Clear
-35M1	"deep"	--	66	10	--	Clear
-36A1	42	--	44	13	37	Clear
-36D1	60	--	48	6	--	Clear
-36M2	60	--	64	14	--	--
-36P1	23	--	21	8	24	--
12/2W-1N1	29	--	13	5	--	Clear

Table 5.--Results of field tests, in parts per million, of hardness, chloride content and alkalinity of water from wells in Lewis County.--Con.

Well number	Depth of well (feet)	Depth of aquifer (feet)	Hardness as $CaCO_3$	Chloride (Cl)	Total alkalinity as HCO_3	Appearance
12/2W-2N1	48	20-48	16	6	--	Clear
-3F1	84	83-84	48	5	--	Blue
-3M1	45	--	38	10	--	Clear
-3N1	42	--	18	4	--	Clear
-4B1	26	--	32	14	--	Clear
-4Q2	57	--	36	6	--	--
-6G1	65	55-63	20	6	--	Clear
-7J2	56	35-56	30	8	--	Clear
8G1	28	--	8	5	--	Clear
-8H1	48	--	22	8	--	Clear
-8Q1	139	135-139	88	10	128	Clear
-9E1	27	--	18	8	--	Clear
-9L4	143	135-143	54	7	67	Clear
-9P1	99	--	50	6	--	Clear
-12M1	58	--	31	13	--	Clear
-13Q1	12	--	50	6	--	Clear
-14D1	51	--	15	13	--	Clear
-14R1	13	--	56	5	--	Clear
-15Q1	75	--	26	9	--	Clear
-16F1	43	--	22	5	--	Yellow
-16F3	154	Below 117	30	10	122	Clear
-16M1	35	--	16	6	--	--
-16N1	5	--	14	6	--	--
-17B1	161	152-161	82	8	--	Oil film
-17R1	15	--	16	5	--	Clear
-18G1	47	--	28	6	--	Clear
-19A1	42	--	40	6	--	--
-19J1	240	--	84	6	--	Clear
-20G1	39	--	24	6	--	Clear
-20L1	27	--	20	5	--	Yellow
-21D1	4	2-4	40	9	--	Clear
-22Q1	27	--	33	5	--	Clear
-23R1	11	--	30	8	--	Milky
-24B2	72	70-72	52	5	--	Clear
-25D2	40	--	48	5	--	--
-27B1	76	--	23	5	--	Clear
-29A1	18	10-18	18	9	--	--
-29K1	58	--	49	7	--	Clear
-34F1	76	--	23	5	--	Clear
-34H1	46	--	13	6	--	Clear
-35G1	59	--	20	6	--	Clear

Table 5.--Results of field tests, in parts per million, of hardness, chloride content and alkalinity of water from wells in Lewis County.--Con.

Well number	Depth of well (feet)	Depth of aquifer (feet)	Hardness as $CaCO_3$	Chloride (Cl)	Total alkalinity (HCO_3)	Appearance
12/4W-2G1	19	9-11	88	34	73	Brown
-12M1	12	4-12	42	6	48	Clear
-25B1	30	--	52	34	37	"Rusty"
12/1 -2E1	238	220-248	52	10	101	Clear
-3Q1	52	--	17	7	20	Clear
-8F1	116	103-116	64	6	95	Clear
-8P2	112	85-97 103-116	56	6	88	Clear
-8Q2	142	94-142	66	8	104	Clear
-9B1	163	--	68	4	104	Clear
-12D1	42	--	30	10	49	Clear
-12P1	357	343-357	19	153	88	Clear
-12Q1	354	--	94	12	149	Clear
-13B1	170	75-150	67	14	73	Clear
-13E1	47	--	24	6	35	Clear
-13N1	303	--	6040	11,262	55	White precipitate
-15J1	173	165-173	80	52	122	Clear
-33J1	120	--	46	14	61	Clear
12/2 -4K1	270	35-80	38	5	58	Some sand
-4P2	240	180-220	83	7	122	Clear
-8M1	220	--	51	4	116	Clear
-13B1	119	90-120	37	5	79	Clear
-14B1	144	65-136	83	6	--	Clear
-17Q1	193	168-193	60	7	94	Clear
-18C1	83	77-83	49	6	79	--
12/3 -17B1	30	28-32	54	12	37	Clear
-22D1	190	172-190	58	10	98	Clear
-24C1	73	73-76	42	12	49	Clear
-26D1	246	--	10	48	85	Sand, fine
-28L1	52	--	20	7	34	Clear
12/4 -2C1	53	--	50	6	67	Clear
-34P1	77	--	72	12	110	"Rusty"
12/5 -7K1	100	--	low	10	122	Clear
-14H1	22	--	42	8	--	--
-14N1	24	--	36	6	--	--
-28G1	35-39	--	68	8	104	Clear
12/7 -17R1	210	--	114	16	348	Clear
13/1W-2A1	85	87-88	90	56	262	Clear
-2G1	51	50-51	18	72	--	Sometimes "rusty"
-4F1	22	--	10	8	19	Clear
-5H2	107	103-108	45	6	88	Slightly yellow
-6D1	49	--	18	7	--	Red-brown
-6R1	53	--	8	8	--	--
-8H1	53	--	35	14	--	"Rusty"

Table 5.--Results of field tests, in parts per million, of hardness, chloride content and alkalinity of water from wells in Lewis County.--Con.

Well number	Depth of well (feet)	Depth of aquifer (feet)	Hardness as $CaCO_3$	Chloride (Cl)	Total alkalinity as HCO_3	Appearance
13/1W-8J1	31	--	40	16	--	--
-9E1	28	24-28	12	5	15	Clear
-9M1	17	--	14	8	--	"Cloudy"
-9N1	45	37-45	152	24	260	--
-11C1	26	12-26	25	9	--	Red-brown
-11Q1	22	--	12	7	15	--
-11R1	39	--	16	15	--	Clear
-17H2	150	140-150	67	92	271	Clear
-18H1	24	--	14	13	12	--
-18R1	541	541(?)	102	166	177	Milky; fine sand
-19D1	116	110-115	43	21	174	Sand, fine
-20F1	35	39-40	27	10	43	Clear
-20R1	19	--	11	8	--	--
-21H1	25	22-24	50	8	104	Clear
-22E1	29	--	50	7	79	Clear
-22P1	127	125-129	66	9	67	Clear
-23Q1	18	--	8	8	18	Slightly turbid
-28P1	112	112	55	26	155	Clear
-29A1	515(?)	515(?)	88	137	165	Clear
-29M2	26	--	41	8	49	Clear
-29R1	255	255-	68	80	165	Pumice, fine sand
-30A3	320	308-313	90	146	165	Clear
-31K1	33	--	15	10	--	Clear
-31M2	35	--	16	5	12	Clear
-31P3	50	--	110	31	156	Yellow-brown
-32A1	205	180-190	52	28	150	Yellowish
-32F2	24	--	32	11	--	--
-32N1	122	--	44	8	67	Clear
-32P2	40	--	18	12	18	Clear
-33D1	70	65-70	53	26	152	Clear
-33M1	65	--	54	8	--	Clear
-34D1	21	--	42	6	--	Yellow film
-34N1	54	--	12	8	--	--
-35A1	185	176-185	39	7	183	Clear
-35B1	183	180-183	46	10	189	Clear
-35M2	78	75-78	46	7	--	--
-35R1	13	--	10	6	--	White film
-36C1	65	58-	68	6	128	Clear (in summer)
13/2W-2J1	18	--	45	8	--	--
-3G1	150	120-150	36	6	--	Clear
-3H1	64	51-64	10	9	--	Clear

Table 5.--Results of field tests, in parts per million, of hardness, chloride content and alkalinity of water from wells in Lewis County.--Con.

Well number	Depth of well (feet)	Depth of aquifer (feet)	Hardness as $CaCO_3$	Chloride (Cl)	Total alkalinity as HCO_3	Appearance
13/2W-7E1	100	--	34	10	--	Clear
-7F1	82	--	88	10	--	Clear
-7J2	37	--	10	9	--	--
-8A1	56	50-56	80	52	--	Sometimes turbid
-8C1	16	14-16	56	8	--	Clear
-8E1	25	16-18	64	8	--	Clear
-8L1	145	--				Clear
-8L2	34	7-37	78	12	--	Clear
-8N1	120	--	46	6	--	Clear
-9B1	37	--	88	8	--	Clear
-9M1	38	--	88	8	--	Clear
-9Q1	37	--	74	12	--	Turbid
-10N1	23	--	80	14	--	Clear
-10Q1	55	--	62	8	98	Clear
-12F2	32	--	52	8	--	--
-12F3	180	180-	81	8	178	Clear
-12Q1	49	--	30	8	--	--
-13C1	35	--	18	7	--	--
-14C1	47	--	--	8	--	Clear
-14E1	32	29-32	36	10	--	Clear
-14E2	50	--	40	8	--	Clear
-15A1	43	--	42	14	--	Clear
-15M1	244	229-244	150	275	160	Clear
-15K1	306	--	137	248	165	Some gray silt
-15R1	435	270-300	100	144	206	Some sand
-15R2	400	280-300	96	188	187	Clear
-16F1	260	240-260	173	374	149	Clear
-16H1	210+	208-	184	360	152	Clear
-16J1	108	95-105	111	187	162	Clear
-17E1	44	43-44	34	24	--	--
-17F2	28	--	30	8	--	Clear
-17M1	52	--	26	8	--	--
-19H1	89	84-89	30	12	--	Clear
-21D1	33	--	28	11	61	--
-21D2	25	--	10	6	18	Clear
-21D1	140	115-125	25	7	82	Clear
-21E1	613	144-154	38	8	76	Clear
-21K2	175	139-160	34	10	68	Clear
-21R1	32	24-32	20	10	--	Clear
-22G1	130	28-40	62	8	--	Sand, fine

Table 5.--Results of field tests, in parts per million, of hardness, chloride content and alkalinity of water from wells in Lewis County.--Con.

Well number	Depth of well (feet)	Depth of aquifer (feet)	Hardness as $CaCO_3$	Chloride (Cl)	Total alkalinity as HCO_3	Appearance
13/2W-25G1	33	--	60	11	--	Clear
-26A1	17	15-17	28	12	--	Clear
-26L1	145	140-145+	41	6	146	Sand, fine
-26M1	19	--	18	8	--	Clear
-26M2	160	155-160	24	9	46	Clear
-27B1	30	--	52	9	--	Somewhat "rusty"
-27Q2	34	21, 34	22	8	--	Clear
-28A1	175	142-160	34	8	79	Clear
-28J1	17	--	12	5	--	"Rusty"
-28R1	30	--	20	8	--	Clear
-31G1	50	42-50	64	7	--	Clear
-31K1	222	185-222	66	10	104	Clear
-32M1	33	32-33	80	8	--	Clear
-34A2	18	--	28	8	--	Clear
-35D2	25	--	10	8	--	Clear
-35L1	18	--	26	7	--	Clear
-35N1	28	--	38	10	--	Clear
-36N1	80	--	42	8	--	Clear
-36R2	38	--	40	36	--	--
13/3W-1G1	29	--	66	16	79	--
-2D1	108	90-108	25	8	--	Clear
-2F1	90	--	44	8	79	--
-2G2	75	--	40	4	--	--
-2M1	122	103-122	25	16	--	Clear
-3Q1	73(?)	--	206	818	273	Clear
-3R5	75	60-75	116	234	134	Clear
-6R1	230	120-220 ?	34	22	275	Clear
-7J2	160	--	12	7	156	Clear
-8K1	175	175±	12	6	171	Clear
-9B1	23	--	72	10	67	Clear
-9B2	26	--	68	16	55	Clear
-9G2	40	--	247	124	274	--
-11D2	50(?)	--	96	8	122	--
-11M2	19	--	56	8	48	Clear
-15B1	185	180 (?)	15	10	335	Amber
-16J1	320	--	56	6	92	Clear
-27J1	16	--	5	5	12	--
-27P1	180	--	76	8	168	--
-30C1	118	--	74	361	468	Clear
-30F1	212	165-212	12	160	388	Clear

Table 5.--Results of field tests, in parts per million, of hardness, chloride content and alkalinity of water from wells in Lewis County.--Con.

Well number	Depth of well (feet)	Depth of aquifer (feet)	Hardness as $CaCO_3$	Chloride (Cl)	Total alkalinity as HCO_3	Appearance
13/4W-3L1	81	65-81	34	44	275	Clear
-24F1	20	--	62	8	85	Clear
-25H1	54	--	182	144	323	Clear
13/5W-1F2	14	8-14	80	26	116	"Rusty
-3N1	136	--	60	14	116	Clear
-33J2	270	--	498	300+	30	Clear
13/1 -9J1	34	--	10	4	37	Clear
-14C1	38	--	12	4	24	Clear
-14E1	330	117-140	56	5	122	Clear
-14G1	110	105-110	46	6	88	Clear
-15A2	100(?)	--	38	3	70	Clear
-16K1	129	--	56	4	104	--
-16L1	140	140+	52	6	88	--
-17R1	125	70-125+	47	5	85	Clear
-19K2	182	128-168	46	4	73	Clear
-20F2	405	--	60	5	110	Sand, fine
-21G1	36	--	23	8	37	Somewhat "rusty"
-22G1	33	--	47	28	43	--
-22R2	149	149+	44	4	104	Sand, fine
-23B1	6	5-6	32	6	49	--
-25K1	36	30-36	26	10	24	--
-28C1	37	--	54	6	110	--
-28M1	97	--	74	3	140	Clear
-30D1	108	107-108	32	5	62	Clear
-30F1	125	123-128	30	8	104	Clear
-30B1	130	122-130	67	4	137	Clear
-33D1	52	52-	86	6	152	Clear
-33M2	210	125-127±	48	5	113	Clear
-33A1	125	--	56	4	101	Clear
-34B1	25	--	63	18	60	Clear
-35F1	119	--	9	6	57	Clear
13/2 -14Q1	32	--	14	6	24	Clear
-20M1	28	--	19	2	37	Clear
-34N2	90	--	40	8	68	Clear
14/2W-3K1	15	--	8	10	12	--
-3N1	70	55-70	70	8	225	--
-3N4	39	--	25	11	--	--
-4B2	10	--	29	7	--	Clear
-4R2	20	--	49	20	37	Clear
-5B1	42	--	57	26	--	Clear
-5B3	50	--	66	21	61	Clear
-5D1	13	--	34	10	--	"Rusty"

Table 5.--Results of field tests, in parts per million, of hardness, chloride content and alkalinity of water from wells in Lewis County.--Con.

Well number	Depth of well (feet)	Depth of aquifer (feet)	Hardness as $CaCO_3$	Chloride (Cl)	Total alkalinity as HCO_3	Appearance
14/2W-6F3	60	--	74	13	49	Clear
-6L3	45	--	38	6	30	Clear
-6M2	33	--	67	13	--	Clear
-6M9	41	--	38	12	37	Clear
-6M12	31	--	30	9	37	Clear
-6M13	40	--	160	150	--	Clear
-7F2	52	--	70	14	--	--
-7F3	56	-56	27	9	55	--
-7M2	75	--	42	7	--	Clear
-7M3	12	--	26	8	24	Clear
-7M8	26	--	74	56	--	Clear
-7N1	39	--	28	8	27	Clear
-7P1	24	--	24	10	30	--
-7Q1	68	60-67	84	10	159	--
-9H3	18	--	12	8	18	--
-10L1	14	--	24	--	--	--
-10N1	47	--	--	--	24	Clear
-10R1	38	--	16	6	--	Clear
-11A1	15	--	26	6	43	Clear
-11G1	40	--	31	17	18	Clear
-11E1	185	146-185 ?	34	6	67	Clear
-11F1	34	--	24	8	18	Clear
-11M3	49	--	16	8	19	--
-12E1	34	32-34	40	20	--	Clear
-12N1	17	--	44	6	24	Clear
-13E1	37	--	18	8	30	Clear
-14A1	15	--	24	6	--	Brown
-15A2	46	--	34	10	--	--
-15B1	53	--	24	14	--	Clear
-15L1	4	--	166	8	195	Clear
-16J1	79	59-79	88	6	--	Clear
-17A1	68	30-79	108	9	--	Clear
-17D3	62	62(?)	95	6	148	--
-18H1	64	62-64	86	7	--	Clear
-19A1	55	--	150	80	--	--
-19F1	12	9-12	95	8	--	--
-19F2	18	--	75	20	--	Clear
-19H1	30	--	74	10	--	Clear
-19H2	65	65	300	1560(?)	--	--
-19N1	33	--	50	8	61	Clear

Table 5.--Results of field tests, in parts per million, of hardness, chloride content and alkalinity of water from wells in Lewis County.--Con.

Well number	Depth of well (feet)	Depth of aquifer (feet)	Hardness as $CaCO_3$	Chloride (Cl)	Total alkalinity as HCO_3	Appearance
14/2W-20B1	55	--	145	20	--	Clear
-22A1	18	--	40	6	--	--
-22H1	1200	1200(?)	--	22,200	--	Clear
-22K1	1800	450-480	36	11	39	Clear
-23A1	29	--	46	6	61	--
-23A2	18	10-18	48	5	--	Clear
-23H1	10	--	40	4	--	Slightly turbid
-23M2	25	--	12	7	24	"Rusty"
-23P1	32	--	22	10	18	--
-24H1	10	2-5	134	6	--	Clear
-26E1	47	--	44	8	73	Clear
-28Q1	75	60-70	154	88	146	Clear
-31C1	127	--	54	6	102	Turbid
-34H1	18	10-18	60(?)	8	67	Cloudy
-34H2	13	--	22(?)	8	--	Clear
-35B1	27	--	18	9	--	Turbid
-35E1	24	--	14	6	24	--
-35G2	31	16-31	35	6	--	--
-36A1	24	--	27	8	--	--
14/3W-1K4	27	--	64	12	49	Clear
-11F3	28	18-28+	28	10	18	Clear
-12A2	50	50±	62	13	61	Clear
-13G1	90	--	4	896	217	Clear
-18D1	20	--	50	30	238	Clear
-26R1	36	30-36	30	12	55	Oil film
-33M2	13	--	46	8	73	Clear
-34K2	22	--	24	12	30	"Rusty"
-34Q1	135	70-135	74	10	134	Clear
-35K1	68	--	60	8	--	Orange-brown
-35P1	96	88-96	36	8	--	Yellowish
-35Q1	73	70-73	45	8	--	--
-36H1	138	--	92	8	128	Yellowish
-36J1	120	--	60	19	--	--
-36Q1	220	140-220	45	350	--	--
14/4W-3D1	22	--	76	10	92	Somewhat "rusty"
-6L1	45(?)	--	38	22	220	
-15C1	90	--	18	12	83	Clear
-31J1	32	--	22	8	--	Clear
-32L1	39	--	24	7	61	--

Table 5.--Results of field tests, in parts per million, of hardness, chloride content and alkalinity of water from wells in Lewis County.--Concluded

Well number	Depth of well (feet)	Depth of aquifer (feet)	Hardness as $CaCO_3$	Chloride (Cl)	Total alkalinity as HCO_3	Appearance
15/1W-27F1	107	101-107	26	10	805	--
-28M1	130	--	96	320	518	Clear
-29M1	313	--	26	6	61	--
15/2W-26K1	119	110-119	82	216	159	Some silt
-27N1	47	--	24	4	49	Clear
-27R1	125	--	422	856	104	Clear
-28M1			8	16	165	Clear
-29J1	100	40(?)	58	36	43	Clear
-29Q1	--	--	134	10	110	Clear
-29R2	59	--	46	12	73	--
-30Q1	300	--	4	6	372	Clear
-31E6	64	--	32	10	37	Clear
-31F5	112	43-83	52	26	85	Clear
-31L2	64	--	34	14	30	Clear
-32Q3	40	--	58	21	61	Clear
-35D1	120	--	72	10	287	Clear
15/3W-25R2	28	--	35	18	--	Clear
-34L1	105	--	220	30	433	Occasionally "rusty"
-34R1	140	--	10	10	195	Clear
-35B1	33	--	54	18	67	Clear
-35F1	100	60-67	90	10	201	--
-35L4	64	64-68	60	16	120	Clear
-36G1	53	--	50	16	43	Clear
-36K2	54	38-54	48	10	43	Clear
15/4W-20J1	20	--	10	10	18	Clear

Table 6.--Field tests, in parts per million, of hardness, chloride, and alkalinity of water from springs in Lewis County.

Spring number	Hardness ($CaCO_3$)	Chloride (Cl)	Alkalinity (HCO_3)
11/1W-1R1s	37	6	58
*11G1s	48	6	85
19K1s	74	6	116
19M1s	66	6	104
20L1s	118	12	189
21N1s	49	6	73
24C1s	48	8	98
28M1s	68	10	98
11/2W-5J1s	42	4	..
11R1s	..	..	61
23H1s	66	14	98
11/2E-10J1s	30	8	55
12/1E-22Q1s	27	5	46
12/2E-1G1s	46	8	73
10L1s	26	6	79
11F1s	31	5	79
21Q1s	39	4	61
12/3E-7D1s	46	8	92
12/4E-3M1s	40	4	73
12/6E-9E1s	44	10	79
13/2W-22E1s	56	4	..
30L1s	12	4	..
13/1E-20R1s	44	10	..
13/4E-25R1s	20	3	34
15/2W-29B2s	40	10	24
15/4W-15H1s	24	10	48
*11/1W-7R1s	6	8	98