



TEXAS DEPARTMENT OF WATER RESOURCES

REPORT 280

**RECORDS OF WELLS, DRILLERS' LOGS, WATER-LEVEL
MEASUREMENTS, AND CHEMICAL ANALYSES OF
GROUND WATER IN CHAMBERS, LIBERTY, AND
MONTGOMERY COUNTIES, TEXAS, 1975-79**

By

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and C. E. Ranzau
U.S. Geological Survey

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ABSTRACT

Information on major new water wells in Chambers, Liberty, and Montgomery Counties was compiled by the U.S. Geological Survey from 1975 to 1979. This report presents the results of the hydrologic data collection on new large-capacity and other selected wells, including well location and completion data, drillers' logs of the strata penetrated, water levels, and chemical quality of the produced water. These water-well data are supplementary to similar data on older wells in these counties and descriptive evaluations of the ground-water resources which have been published previously.

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INTRODUCTION

Hydrologic data from Chambers, Liberty, and Montgomery Counties, Texas, are being collected in cooperation with the Texas Department of Water Resources to evaluate the groundwater resources of the greater Houston-Galveston region. The data-collection program consists of an inventory of new large-capacity and other selected wells, water-level measurements in observation wells, and a compilation of information on land-surface subsidence.

The hydrologic data are published every 5 years. The first report (Naftel, Fleming, and Vaught, 1976) presents data collected from 1966 to 1974. This report presents records of wells, drillers' logs, water-level measurements, and chemical analyses of ground water collected during 1975-79 (Tables 1-11). Additional information on the geology and hydrology of the area may be found in publications listed in "Selected References."

Most of the chemical analyses presented in this report were determined in the laboratories of the U.S. Geological Survey, but some data were obtained from commercial analyses. Dissolved solids (sum of constituents) and hardness (Ca, Mg), were recalculated to correspond to the Geological Survey reporting methods.

METRIC CONVERSIONS

The "inch-pound" units used in this report may be converted to metric units by the following conversion factors:

<u>From</u>	<u>Multiply by</u>	<u>To obtain</u>
feet	0.3048	meters (m)
gallons per minute (gal/min)	0.06309	liters per second (l/s)
inches	2.54	centimeters (cm)

WELL-NUMBERING SYSTEM

The well-numbering system used in this report was devised by the Texas Department of Water Resources for use throughout the State. Under this system, each 1-degree quadrangle is given a number consisting of two digits. These are the first two digits in the well number. Each 1-degree quadrangle is divided into 7½-minute quadrangles which are given two-digit numbers from 01 to 64. These are the third and fourth digits of the well number. Each 7½-minute quadrangle is divided into 2½-minute quadrangles which are given a single-digit number from 1 to 9. This is the fifth digit of the well number. Finally, each well within a 2½-minute quadrangle is given a two-digit number in the order in which it was inventoried, starting with 01. These are the last two digits of the well number.

On the well-location maps (Figures 1-3), only the last three digits of the well number are shown at each well location; the second two digits are shown in the northwest corner of each 7½-minute quadrangle; and the first two digits are shown by the large block numerals 60, 61, 64, and 65.

In addition to the seven-digit well number, a two-letter prefix is used to identify the county. The prefix for Chambers County is DH; for Liberty County, SB; and for Montgomery County, TS.

SELECTED REFERENCES

- Anders, R. B., McAdoo, G. D., and Alexander, W. H., Jr., 1968, Ground-water resources of Liberty County, Texas: Texas Water Devel. Board Rept. 72, 147 p., 20 figs.
- Naftel, W. L., Fleming, Bobbie, and Vaught, Kenneth, 1976, Records of wells, drillers' logs, water-level measurements, and chemical analyses of ground water in Chambers, Liberty, and Montgomery Counties, Texas, 1966-74: Texas Water Devel. Board Rept. 202, 63 p., 3 figs.
- Popkin, B. P., 1971, Ground-water resources of Montgomery County, Texas: Texas Water Devel. Board Rept. 136, 149 p., 29 figs.
- Ratzlaff, K. W., 1982, Land-surface subsidence in the Texas coastal region: Texas Dept. Water Resources Rept. 278, 30 p., 8 figs.
- Wesselman, J. B., 1971, Ground-water resources of Chambers and Jefferson Counties, Texas, with a section on Quaternary geology, by Saul Aronow: Texas Water Devel. Board Rept. 133, 183 p., 28 figs.

Table 1.--Records of Wells in Chambers County

Water Levels : Reported water levels given in feet; measured water levels given in feet and tenths
 Method of Lift and Type of Power: Sub, submersible; E, electric; N, none. Number indicates horse power
 Use of Water : D, domestic; P, public supply; Ind, industrial; Irr, irrigation; N, none
 Water-Bearing Unit : CU, Upper unit of Chicot aquifer; CL, Lower unit of Chicot aquifer; E, Evangeline aquifer

Well	Owner	Driller	Date completed	Depth of well (ft)	Casing		Water bearing unit	Altitude of land surface (ft)	Water level		Method of lift	Use of water	Remarks
					Diameter (in.)	Depth (ft)			Above (+) below land surface datum (ft)	Date of measurement			
DH-64-09-337	City Services Frac-tioners	Katy Drilling Co.	1971	2,196	5	2,194	E	45	--	--	--	Ind	13 feet of screen between 2,097 and 2,113 feet. <u>1/</u>
924	Houston Lighting and Power, Cedar Bayou Plant, Well 2	Layne-Texas Co.	1967	409	18 12	342 409	CL	17	120	Nov. 18, 1967	Sub, E 75	Ind	48 feet of screen between 352 and 400 feet. Reported yield 650 gal/min with 43 feet drawdown when drilled. Well listed as DH-64-09-812 in Texas Water Development Board Report 202.
10-713	J. A. Johnson	Gilbert's Water Well Drilling Co.	1975	239	6	239	CU	23	59	Aug. 8, 1975	Sub, E	D	Screen from 229 to 239 feet.
11-605	Chambers County Golf Course	Frankland Well Service Co.	1977	110	6	110	CU	27	16	June 25, 1977	Sub, E	Irr	Screen from 80 to 110 feet. Reported yield 200 gal/min with 50 feet drawdown when drilled.
606	do	do	1976	138	6 4	100 138	CU	27	16	Sept. 1, 1976	Sub, E	Irr	Screen from 118 to 138 feet. <u>1/</u>
816	City of Anahuac, Well 3	do	1978	100	6	100	CU	22	24	Mar. 1978	Sub, E	P	Screen from 80 to 100 feet.
26-710	Exxon Company	Exxon Company	--	--	--	--	--	0	102.28	Mar. 8, 1979	N	N	Located in Galveston Bay. Supply well for oil test.
809	do	do	--	--	4	--	CL?	0	89.0	May 28, 1975	N	N	Do.
810	do	do	--	--	--	--	--	0	91	May 8, 1979	N	N	Do.

1/ See Table 2 for Drillers' Logs of Wells.

Table 2.—Drillers' Logs of Wells in Chambers County

	THICKNESS (feet)	DEPTH (feet)		THICKNESS (feet)	DEPTH (feet)
Well DH-64-09-337			Well DH-64-09-337—Continued		
Owner: Cities Service Fractioners			Clay	128	1,295
Driller: Katy Drilling Co.			Sand and rock	84	1,379
Sand and rock	133	133	Clay	63	1,442
Clay	7	140	Sand and rock	23	1,465
Sand	13	153	Clay	25	1,490
Clay	119	272	Sand and rock	45	1,535
Sand	14	286	Clay	24	1,569
Clay	63	349	Sand and rock	73	1,642
Sand and rock	36	385	Clay	255	1,897
Clay	68	453	Sand and rock	44	1,941
Sand and rock	47	500	Clay	30	1,971
Rock	32	532	Sand and rock	16	1,987
Clay	9	541	Clay	148	2,135
Sand and rock	8	549			
Rock	40	589	Well DH-64-11-606		
Sand and rock	42	631	Owner: Chambers County Golf Course		
Shale	157	788	Driller: Frankland Well Service Co.		
Sand and rock	76	864	Clay	59	59
Shale	229	1,093	Sand	79	138
Sand and rock	74	1,167			

**Table 3.—Water Levels in Wells in Chambers County
(feet below land surface)**

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
Well DH-64-09-301					
Owner: Chambers County WC and ID No. 1, well 5					
Elevation: 43 Completion Interval: 405-520					
Mar. 3, 1975	128.55				
Oct. 14, 1975	126				
Feb. 8, 1979	114.38				
Oct. 1, 1979	107.49				
Well DH-64-09-302					
Owner: Chambers County WC and ID No. 1, well 4					
Elevation: 43 Completion Interval: 418-521					
Mar. 3, 1975	142.5				
Mar. 17, 1976	137				
Oct. 6, 1976	143				
Mar. 8, 1977	136				
Oct. 14, 1977	133				
Feb. 8, 1979	125.43				
Oct. 1, 1979	111.25				
Well DH-64-09-307					
Owner: Diamond Alkali well 3					
Elevation: 27 Completion Interval: 720-910					
Mar. 6, 1975	123.78				
Mar. 15, 1978	126.20				
Feb. 8, 1979	152.53				
Oct. 1, 1979	109.24				
Well DH-64-09-308					
Owner: Diamond Alkali					
Elevation: 27 Completion Interval: 149					
Mar. 6, 1975	17.80				
Oct. 14, 1975	18.17				
Oct. 7, 1976	20.46				
Mar. 8, 1977	16.98				
Oct. 14, 1977	18.20				
Mar. 15, 1978	19.97				
Oct. 3, 1978	19.95				
Feb. 8, 1979	17.89				
Oct. 1, 1979	17.38				
Well DH-64-09-336					
Owner: Chambers County WC and ID No. 1, well 6					
Elevation: 40 Completion Interval: 406-447					
Oct. 6, 1976	151.5				
Mar. 8, 1977	96.5				
Well DH-64-09-811					
Owner: Houston Lighting and Power Co., Cedar Bayou Plant, well 1					
Elevation: 13 Completion Interval: 324-394					
Jan. 9, 1975	143.0				
Feb. 4, 1975	141.25				
Mar. 18, 1975	146.22				
Apr. 17, 1975	151.45				
May 13, 1975	141.14				
July 7, 1975	142.62				
Aug. 7, 1975	149.16				
Sept. 9, 1975	152.56				
Oct. 27, 1975	150.91				
Nov. 18, 1975	150.37				
Dec. 17, 1975	151.08				
Jan. 22, 1976	148.87				
Feb. 25, 1976	148.21				
Mar. 24, 1976	151.95				
Apr. 23, 1976	148.08				
May 24, 1976	151.66				
Sept. 23, 1976	149.83				
Oct. 26, 1976	151.04				
Dec. 6, 1976	149.67				
Dec. 28, 1976	150.06				
Mar. 7, 1977	152.6				
Apr. 1, 1977	154.3				
May 3, 1977	154.0				
June 8, 1977	153.83				
Nov. 1977	152.40				
Aug. 7, 1979	122.75				
Aug. 31, 1979	118.0				
Well DH-64-09-921					
Owner: Houston Lighting and Power Co., Cedar Bayou Plant, well 3					
Elevation: 24 Completion Interval: 335-391					
Jan. 13, 1975	142.65				
Feb. 7, 1975	142.83				
Mar. 21, 1975	146.12				
Apr. 21, 1975	149.08				
May 23, 1975	150.26				
July 16, 1975	143.54				
Aug. 26, 1975	146.6				
Sept. 30, 1975	150.37				
Oct. 28, 1975	148.54				
Nov. 18, 1975	148.75				
Dec. 17, 1975	148.41				
Jan. 16, 1976	146.21				
Feb. 25, 1976	146.25				
Mar. 31, 1976	145.81				
Apr. 29, 1976	147.60				
May 25, 1976	149.54				
Oct. 28, 1976	149.10				
Dec. 8, 1976	149.34				
Dec. 30, 1976	148.11				
Apr. 13, 1977	153.7				
May 13, 1977	152.60				
June 10, 1977	152.00				
Sept. 22, 1977	150.48				
Oct. 26, 1977	154.70				
Aug. 1978	136.05				
Aug. 7, 1979	122.75				
Aug. 31, 1979	120.30				
Well DH-64-09-924					
Owner: Houston Lighting and Power, Cedar Bayou Plant, well 2					
Elevation: 17 Completion Interval: 352-400					
Jan. 20, 1975	143.73				
Feb. 6, 1975	144.0				
Mar. 25, 1975	149.39				
Apr. 18, 1975	153.75				
May 20, 1975	153.51				
July 11, 1975	146.10				

Table 4.--Chemical Analyses of Water From Wells in Chambers County
 When no potassium (K) is reported, sodium and potassium are calculated and reported as sodium (Na)
 Water-bearing units: CL, lower unit of Chicot aquifer

Well	Owner	Depth or producing interval (ft)	Water-bearing unit	Date	Dis-solved iron (Fe) (ug/l)	Dis-solved manganese (Mn) (ug/l)	Dis-solved calcium (Ca) (mg/l)	Dis-solved magnesium (Mg) (mg/l)	Dis-solved sodium (Na) (mg/l)	Dis-solved potassium (K) (mg/l)	Bicarbonate (HCO ₃) (mg/l)	Carbonate (CO ₃) (mg/l)	Dis-solved sulfate (SO ₄) (mg/l)	Dis-solved chloride (Cl) (mg/l)	Dis-solved fluoride (F) (mg/l)	Dis-solved nitrite plus nitrate nitrogen (N) (mg/l)	Dis-solved orthophosphate (P) (mg/l)	Dis-solved boron (B) (ug/l)	Dis-solved solids (sum of cations) (mg/l)	Hardness (Ca, Mg) (mg/l)	Percent sodium (Na) (mg/l)	Residual sodium bicarbonate (RSC) (mg/l)	Sodium adsorption ratio (SAR) (mg/l)	Specific conductance micro-mhos/cm at 25° C	pH	Temperature (°C)
3/ DH-6A-13-306	Trinity Bay Conservation District, Well 3	130-198	CU	Mar. 13, 1974	15	590 2/	40 3/	53	9	294	--	437	0	29	299	0.2 4/	--	--	914	169	--	--	--	1,670	7.40	22
26-701	Exxon Co., A-1	610-671	CL	May 28, 1975	--	--	--	--	--	--	452	0	.0	37	--	--	--	--	--	--	--	--	949	8.0	--	
701	do	610-671	CL	Mar. 10, 1976	--	--	--	--	--	--	450	0	.4	88	--	--	--	--	--	--	--	--	962	8.0	--	
701	do	610-671	CL	Apr. 27, 1977	--	--	--	--	--	--	458	0	4.0	88	--	--	--	--	--	--	--	--	972	8.1	--	
701	do	610-671	CL	Nov. 17, 1977	--	--	--	--	--	--	460	0	.4	84	--	--	--	--	--	--	--	--	968	7.9	--	
701	do	610-671	CL	Mar. 16, 1978	--	--	--	--	--	--	450	0	.0	88	--	--	--	--	--	--	--	--	957	8.0	--	

1/ Analyzed by Edna Wood Laboratories.
 2/ Total iron (Fe).
 3/ Total manganese (Mn).
 4/ Total fluoride (F).

Table 5.--Records of Wells in Liberty County

Water Level : Reported water levels given in feet
 Method of Lift and Type of Power: E, electric; Sub, submersible; T, turbine
 Use of Water : Irr, irrigation; D, domestic
 Water-Bearing Unit : C, Chicot aquifer; E, Evangeline aquifer

Well	Owner	Driller	Date completed	Depth of well (ft)	Casing		Water bearing unit	Altitude of land surface (ft)	Water level		Method of lift	Use of water	Remarks
					Diameter (in.)	Depth (ft)			Above (+) below land surface datum (ft)	Date of measurement			
SB-60-64-607	Roy Seaburg	Layne-Western Co. Inc.	1978	917	20 12	442 917	E, C	76	160	June 22, 1978	T 70	Irr	Casing slotted from 301 to 917 feet. Reported yield 3,046 gal/min with 54 feet drawdown when drilled. <u>y</u>
61-42-509	Cypress Lakes	Bussell and Son, Inc.	1977	300	6 4	271 300	E	48	16	May 18, 1977	Sub, E	D	Screen from 280 to 300 feet.

y See Table 6 for Drillers' Logs of Wells.

Table 6.—Drillers' Logs of Wells in Liberty County

	THICKNESS (feet)	DEPTH (feet)		THICKNESS (feet)	DEPTH (feet)
Well SB-60-64-607			Well SB-60-64-607—Continued		
Owner: Roy Seaburg			Clay	11	636
Driller: Layne-Western Co., Inc.			Sand	15	651
Sand and gravel	31	31	Clay	33	684
Clay	14	45	Sand and rock	42	726
Sand	13	58	Clay	17	743
Clay	5	63	Sand and rock	12	755
Sand	7	70	Clay	16	771
Clay	43	113	Sand and rock	15	786
Sand	99	212	Clay	30	816
Clay	27	239	Sand and rock	5	821
Sand	62	301	Clay	57	878
Clay	54	355	Sand and rock	4	882
Sand	36	391	Clay	35	917
Clay	101	492	Sand	19	936
Sand	23	515	Clay	3	939
Clay	43	558	Sand	53	992
Sand	28	586	Clay	19	1,011
Clay	9	595			
Sand	30	625			

**Table 7.—Water Levels in Wells in Liberty County
(feet below land surface)**

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
Well SB-60-48-102		Well SB-60-64-301		Well SB-60-64-901	
Owner: City of Cleveland, well 1		Owner: E. J. Stoesser, well 2		Owner: M. F. Zalesky	
Elevation: 157		Elevation: 82		Elevation: 70	
Completion Interval: 619-833		Completion Interval: -1,006		Completion Interval: -912	
Mar. 5, 1975	36.64	Mar. 28, 1976	85.61	Mar. 3, 1975	102.49
Mar. 10, 1976	46.33	Mar. 9, 1977	87.57	Mar. 23, 1976	109.04
Mar. 18, 1977	42.00	Sept. 29, 1977	90.55	Mar. 9, 1977	105.19
Oct. 7, 1977	33.00	Mar. 20, 1978	85.63	Sept. 12, 1977	103.07
Mar. 27, 1978	16.00	Sept. 26, 1978	104.49	Mar. 20, 1978	104.28
Feb. 20, 1979	57.72	Feb. 12, 1979	93.69		
Sept. 17, 1979	61.71	Sept. 14, 1979	89.63	Well SB-61-33-601	
Well SB-60-48-302		Well SB-60-64-302		Owner: C. Die	
Owner: Vernon Elledge, well 2		Owner: Roy Seaburg		Elevation: 126	
Elevation: 153		Elevation: 82		Completion Interval: 130-140	
Completion Interval: -452		Completion Interval: -500		Mar. 6, 1975	53.44
Mar. 6, 1975	28.88	Mar. 3, 1975	83.02	Mar. 10, 1976	55.41
Mar. 28, 1976	28.36	Mar. 28, 1976	86.57	Mar. 18, 1977	53.29
Mar. 17, 1977	25.42	Mar. 9, 1977	77.67	Oct. 7, 1977	57.14
Oct. 7, 1977	26.06	Sept. 29, 1977	91.37	Mar. 27, 1978	55.50
Feb. 20, 1979	39.15	Mar. 20, 1978	77.62	Feb. 15, 1979	56.87
Sept. 17, 1979	21.06	June 26, 1978	95.99	Sept. 18, 1979	56.10
Well SB-60-56-901		Well SB-60-64-303		Well SB-61-33-701	
Owner: E. J. Stoesser, well 3		Owner: Stoesser Farms, Inc., well 6		Owner: Roy Elledge	
Elevation: 86		Elevation: 85		Elevation: 157	
Completion Interval: -1,015		Completion Interval: 203-580		Completion Interval: -835	
Mar. 3, 1975	72.66	Mar. 3, 1975	76.06	Mar. 6, 1975	38.83
Mar. 9, 1977	61.90	Mar. 9, 1977	72.01	Mar. 18, 1977	43.07
Sept. 29, 1977	85.74	Sept. 29, 1977	83.99	Oct. 7, 1977	43.45
Sept. 27, 1978	90.59	June 26, 1978	89.83	Mar. 27, 1978	40.73
Feb. 20, 1979	75.08	Sept. 12, 1979	87.65	Oct. 2, 1978	46.56
Sept. 12, 1979	86.76	Well SB-60-64-602		Feb. 15, 1979	39.30
Well SB-60-56-902		Owner: E. J. Stoesser, well 4		Sept. 17, 1979	37.57
Owner: E. J. Stoesser, well 5		Elevation: 83		Well SB-61-33-708	
Elevation: 85		Completion Interval: -1,017		Owner: Roy A. Morton and Sons	
Completion Interval: -1,040		Mar. 3, 1975	105.98	Elevation: 161	
Mar. 3, 1975	87.27	Mar. 9, 1977	104.78	Completion Interval: -693	
Oct. 29, 1977	98.55	Sept. 24, 1977	117.05	Mar. 6, 1975	37.84
Oct. 27, 1978	106.73	Mar. 20, 1978	105.25	Mar. 18, 1977	37.33
Feb. 20, 1979	94.10	June 25, 1978	125.43	Oct. 7, 1977	42.45
Sept. 12, 1979	97.49	Feb. 12, 1979	115.65	Mar. 27, 1978	41.15
		Sept. 12, 1979	121.86	Oct. 2, 1978	58.43

Table 7.—Water Levels in Wells in Liberty County—Continued

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
Well SB-61-33-708—Continued		Well SB-61-49-802		Well SB-61-51-102	
		Owner: W. A. Conners		Owner: Frank Duke	
		Elevation: 97		Elevation: 87	
		Completion Interval: -760		Completion Interval: -660	
Feb. 15, 1979	38.86	Mar. 5, 1975	65.55	Mar. 7, 1975	45.92
Sept. 14, 1979	40.05	Mar. 23, 1976	71.52	Mar. 10, 1976	43.12
Well SB-61-41-101		Mar. 9, 1977	64.02	Mar. 14, 1977	44.29
Owner: Vernon Elledge		Mar. 22, 1978	62.95	Sept. 30, 1977	46.30
Elevation: 153		Sept. 13, 1979	75.00	Mar. 27, 1978	42.18
Completion Interval: -502		Well SB-61-49-803		Sept. 28, 1978	51.44
Mar. 6, 1975	32.79	Owner: W. A. Conner		Feb. 15, 1979	46.19
Mar. 10, 1976	32.26	Elevation: 97		Sept. 14, 1979	44.86
Mar. 18, 1977	31.70	Completion Interval: 150-742		Well SB-61-51-806	
Oct. 7, 1977	33.47	Mar. 5, 1975	54.23	Owner: Morgan Tippet	
Mar. 27, 1978	32.62	Mar. 23, 1976	63.69	Elevation: 68	
Oct. 2, 1978	37.09	Mar. 9, 1977	54.81	Completion Interval: -624	
Feb. 20, 1979	31.26	Sept. 29, 1977	56.34	Mar. 7, 1975	44.40
Sept. 17, 1979	32.95	Mar. 22, 1978	54.70	Mar. 14, 1977	42.28
Well SB-61-41-701		Well SB-61-49-807		Sept. 30, 1977	47.77
Owner: M. A. Scott		Owner: T. Wilburn		Mar. 27, 1978	39.86
Elevation: 128		Elevation: 97		Feb. 14, 1979	43.74
Completion Interval: -625		Completion Interval: 65-396		Sept. 18, 1979	47.55
Mar. 5, 1975	49.70	Mar. 5, 1975	87.98	Well SB-61-57-202	
Mar. 28, 1976	52.09	Mar. 23, 1976	106.14	Owner: D. A. Reidland	
Mar. 18, 1977	49.12	Mar. 9, 1977	90.58	Elevation: 98	
Oct. 7, 1977	56.78	Sept. 29, 1977	103.40	Completion Interval: -816	
Mar. 27, 1978	56.70	Mar. 22, 1978	84.04	Mar. 23, 1976	84.89
Oct. 2, 1978	60.31	Sept. 27, 1978	108.69	Well SB-61-57-405	
Feb. 20, 1979	54.48	Feb. 14, 1979	88.63	Owner: Leo Moreau	
Sept. 17, 1979	50.37	Sept. 13, 1979	89.10	Elevation: 78	
Well SB-61-43-801		Well SB-61-51-101		Completion Interval: 240-870	
Owner: A. L. Erickson		Owner: Dennison		Mar. 3, 1975	116.64
Elevation: 93		Elevation: 95		Mar. 23, 1976	122.09
Completion Interval: -100		Completion Interval: -1,150		Mar. 9, 1977	115.89
Mar. 18, 1977	43.25	Mar. 7, 1975	46.30	Sept. 13, 1979	118.34
Sept. 30, 1977	44.52	Mar. 10, 1976	46.35	Well SB-61-57-506	
Mar. 27, 1978	42.84	Mar. 14, 1977	45.79	Owner: W. M. Moreau	
Sept. 28, 1978	47.39	Sept. 30, 1977	48.75	Elevation: 78	
Feb. 15, 1979	44.14	Mar. 27, 1978	45.75	Completion Interval: -940	
Sept. 14, 1979	43.58	Sept. 28, 1978	50.45	Mar. 3, 1975	114.21
		Feb. 15, 1979	46.49	Mar. 23, 1976	128.22
		Sept. 14, 1979	46.74		

Table 7.—Water Levels in Wells in Liberty County—Continued

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
Well SB-61-57-506—Continued		Well SB-61-58-504		Well SB-61-59-501	
		Owner: City of Liberty well 3		Owner: C. F. Kallina	
		Elevation: 32		Elevation: 66	
		Completion Interval: 445-562		Completion Interval: -1,180	
Mar. 9, 1977	127.60	Mar. 5, 1975	68.60	Mar. 14, 1977	61.78
Sept. 12, 1977	121.03	Mar. 14, 1977	62.80	Sept. 30, 1977	61.19
Mar. 20, 1978	123.61	Sept. 29, 1977	54.03	Mar. 22, 1978	56.72
Sept. 26, 1978	124.15	Well SB-61-58-505		Sept. 28, 1978	61.72
Feb. 8, 1979	111.80	Owner: Charles W. Fisher		Feb. 12, 1979	58.53
Sept. 12, 1979	117.73	Elevation: 30		Sept. 18, 1979	60.75
Well SB-61-57-702		Completion Interval: -651		Well SB-61-60-902	
Owner: J. M. Frost, Jr., well 1				Owner: Willis Estate	
Elevation: 67		Mar. 7, 1975	55.87	Elevation: 492	
Completion Interval: -800		Mar. 23, 1976	50.31	Completion Interval: 429-492	
Mar. 3, 1975	115.00	Mar. 14, 1977	50.24	Mar. 7, 1975	37.41
Mar. 23, 1976	113.11	Sept. 29, 1977	58.80	Mar. 14, 1977	35.74
Mar. 9, 1977	111.42	Mar. 22, 1978	63.50	Sept. 30, 1977	37.33
Mar. 20, 1978	112.43	Sept. 27, 1978	64.13	Mar. 22, 1978	34.19
Sept. 26, 1978	119.51	Feb. 12, 1979	62.04	Feb. 14, 1979	43.29
Feb. 14, 1979	111.45	Sept. 13, 1979	61.38	Well SB-64-03-303	
Sept. 12, 1979	112.75	Well SB-61-59-106		Owner: Howard LaCour	
Well SB-61-57-703		Owner: Graves and Portlow		Elevation: 48	
Owner: J. M. Frost, Jr., well 2		Elevation: 72		Completion Interval: -496	
Elevation: 67		Completion Interval: -485		Mar. 31, 1976	38.57
Completion Interval: 240-837		Mar. 7, 1975	54.50	Mar. 14, 1977	38.53
Mar. 3, 1975	118.44	Mar. 31, 1976	56.58	Sept. 30, 1977	44.05
Mar. 23, 1976	115.23	Mar. 14, 1977	53.57	Feb. 15, 1979	44.57
Mar. 9, 1977	113.73	Sept. 30, 1977	51.83	Sept. 13, 1979	44.02
Sept. 12, 1977	122.41	Feb. 14, 1979	51.42		
Mar. 20, 1978	123.30				
Sept. 26, 1978	131.96				
Feb. 8, 1979	125.49				
Sept. 12, 1979	125.40				

Table 8.--Records of Wells in Montgomery County

Water level : Reported water levels given in feet; measured water levels given in feet and tenths
 Method of Lift and Type Power: E, electric; Sub, submersible; T, turbine; J, jet; N, none
 Use of Water : P, public supply; D, domestic; Irr, irrigation; Ind, industrial; N, none
 Water-Bearing Unit : C, Chicot aquifer; E, Evangeline aquifer; J, Jasper aquifer; JU, Upper unit of Jasper aquifer

Well	Owner	Driller	Date completed	Depth of well (ft)	Casing		Water bearing unit	Altitude of land surface (ft)	Water level		Method of lift	Use of water	Remarks
					Diameter (in.)	Depth (ft)			Above (+) below land surface datum (ft)	Date of measurement			
*TS-60-35-905	Stanley Lake Municipal Utilities District	Layne-Texas Co.	1973	765	16 10	512 765	JU	230	39	Sept. 20, 1973	T, E	P	164 feet of screen from 522 to 765 feet. Reported yield of 708 gal/min with 236 feet drawdown when drilled. Test hole drilled to 1,310 feet. <u>y</u>
36-506	La-Terre Corp. Shadow Bay Subdivision	Bussell and Son, Inc.	1974	497	6 4	393 497	JU	240	55	May 21, 1974	--	P	Screen from 400 to 480 feet. <u>y</u>
507	Lake Conroe Hills Municipal Utilities District	Layne-Texas Co.	1975	850	16 10	450	JU	256	86	Aug. 13, 1975	T, E	P	185 feet of screen from 550 to 830 feet. Test hole drilled to 1,101 feet.
* 705	Montgomery County Utilities District No. 8	do	1973	750	16 10	475 750	JU	210	15	July 9, 1973	T, E 100	P	155 feet of screen from 395 to 750 feet. Reported yield 776 gal/min with 9 feet drawdown when drilled. <u>y</u>
706	Municipal Utilities District	Water Resources of Texas	1977	750	16 10	470 750	JU	220	34	Feb. 1977	T, E 100	P	186 feet of screen from 478 to 738 feet. Reported yield 750 gal/min with 60 feet drawdown when drilled. Test hole drilled to 900 feet.
37-411	John Weisinger-Woodcreek Subdivision	O'Day Drilling Co.	1977	336	6 4	315 336	E	350	160	Dec. 28, 1977	E 10	P	Screen from 315 to 336 feet. Reported yield 150 gal/min when drilled. <u>y</u>
506	Harry Oxspring	L. M. Patterson	1970	338	4 2	315 338	C	300	126	Jan. 1970	Sub	D	Screen from 328 to 338 feet. Reported yield 30 gal/min when drilled. <u>y</u>
711	Panorama Municipal Utilities Dist.	Water Resources, Inc.	1977	1,086	12 8	853 1,086	JU	--	130	Nov. 1976	--	P	Reported yield 602 gal/min with 100 feet drawdown when drilled. Test hole drilled to 1,330 feet. <u>y</u>
805	Texas National Gold and Development	B. J. Swinehart Co., Inc.	1975	896	8 6	724 896	JU	300	130	July 1975	T, E 60	Irr	Casing slotted 60 feet from 731 to 877 feet. Reported yield 350 gal/min with 69 feet drawdown when drilled. <u>y</u>
908	Touchstone Utilities, Royal Forest Subdivision	do	1972	509	4 2	472 509	E	280	88	Sept. 2, 1972	Sub, E	P	Screen from 490-510 feet. <u>y</u>
* 43-511	Keenan Water Supply Corp.	Lanford Drilling Co.	1978	389	7 4	341 389	C	308	142	Sept. 1978	Sub, E	P	Screen from 342 to 384 feet. <u>y</u>
44-111	April Sound, Well 3	Con-Tex Water Well Co.	1975	781	6 4	741 781	JU	245	35	June 9, 1975	T, E	Irr	Screen from 747 to 780 feet. Reported yield 500 gal/min when drilled. <u>y</u>
* 311	Highland Hollow	do	1974	529	6 4	493 529	E	210	100	Apr. 5, 1974	Sub, E	P	Screen from 492 to 520 feet. <u>y</u>
* 45-111	City of Conroe, Well 8	Layne-Texas Co.	1978	1,210	16 10	810 1,210	E	260	146	Nov. 9, 1978	T, E	P	206 feet of screen between 825 and 1,190 feet. Reported yield, 1,033 gal/min with 96 feet drawdown when drilled. <u>y</u>
206	Maycon	Weisinger Water Well, Inc.	1978	632	6 4	550 632	E	191	68	June 16, 1978	Sub, E	D	Screen from 582 to 632 feet. Reported yield 300 gal/min when drilled. <u>y</u>
411	Artesian Oaks Subdivision	Pattesch's Water Well Service	1972	451	4 2	427 451	E	155	7	Feb. 25, 1972	Sub, E	P	Screen from 435 to 451 feet. Reported yield 85 gal/min when drilled. <u>y</u>
712	City of Conroe	Texas Water Wells, Inc.	1974	1,245	10	1,245	JU	145	7 83	Mar. 8, 1975 Feb. 14, 1977	T, E 100	P	188 feet of screen between 1,020 and 1,236 feet. Reported yield 1,548 gal/min with 105 feet drawdown when drilled. <u>y</u>
713	Clyde Smith	Con-Tex Water Well Co.	1973	181	6 4	161 181	E	120	4	May 1973	Sub, E	D	Screen from 175 to 185 feet. <u>y</u>
807	River Plantation	do	1974	186	6 4	156 186	E	125	5	May 1974	Sub, E 15	Irr	Screen from 160 to 190 feet. Fills lake on golf course. <u>y</u>

Table 8.--Records of Wells in Montgomery County--Continued

Well	Owner	Driller	Date completed	Depth of well (ft)	Casing		Water bearing unit	Altitude of land surface (ft)	Water level		Method of lift	Use of water	Remarks
					Diameter (in.)	Depth (ft)			Above (+) below land surface datum (ft)	Date of measurement			
TS-60-46-505	Deerwood	Weisinger Water Well, Inc.	1978	345	6	318	C(?)	189	46	May 17, 1978	Sub, E	P	Screen from 335 to 345 feet. Reported yield 100 gal/min with 50 feet of drawdown when drilled. <u>1</u>
50-304	Toby Smith	Schoppa Water Well Service	1977	630	6	595	E	269	155	Feb. 9, 1977	--	P	Screen from 590 to 630 feet. <u>1</u>
51-511	O. A. Rickett, Hunters Retreat Subdivision	do	1974	736	4 2	706 736	E	245	140	Feb. 16, 1974	Sub, E	P	Screen from 711 to 736 feet. <u>1</u>
512	O. A. Rickett	do	1977	416	6 4	385 416	E	240	110	March 1977	--	P	Screen from 386 to 416 feet. <u>1</u>
703	Johnnie Clepper, Shady Oaks Subdivision	do	1972	637	4 2	590 637	E	195	115	June 9, 1972	Sub, E	P	Screen from 617 to 637 feet. <u>1</u>
807	A. R. Coe, Jr., Kipling Oaks Subdivision	do	1972	673	4 2	627 673	E	215	110	July 25, 1972	Sub, E	P	Screen from 633 to 673 feet. <u>1</u>
808	Johnnie Clepper, Oak Hills Subdivision	do	1971	221	4 2	199 221	C	227	50	Aug. 11, 1971	Sub, E 5	P	20 feet of screen between 201 to 221 feet. <u>1</u>
52-205	Landcraft, Westwood III Subdivision	Homeview National Residence Development Corp.	1979	300	6 4	250 300	C	211	80	June 17, 1979	Sub, E	P	Screen from 246 to 290 feet. Reported yield 75 gal/min when drilled. <u>1</u>
406	A. Cronin	Schoppa Water Well Service	1971	250	2	250	C	205	55	July 2, 1971	Sub, E 5	D	Screen from 240 to 250 feet. <u>1</u>
* 53-208	Montgomery County Municipal Utility District, No. 15	Layne-Texas Co.	1974	820	16 10	615 820	E	120	61	Apr. 19, 1974	T, E	P	155 feet of screen between 625 and 805 feet. Reported yield 907 gal/min with 83 feet drawdown when drilled. Test hole drilled to 1,004 feet. <u>1</u>
* 209	Montgomery County Municipal Utilities District, No. 39	do	1977	1,000	18 12	650 1,000	E	126	92	May 18, 1977	--	P	Screen from 660 to 880 feet. Reported yield 1,421 gal/min with a drawdown of 188 feet when drilled. <u>1</u>
314	Whispering Oaks	Turbine Pump Services	1970	269	4 2	249 269	E	115	35	Sept. 23, 1970	Sub, E 5	P	20 feet of screen between 250 and 270 feet. Reported yield 100 gal/min with 30 feet drawdown when drilled. <u>1</u>
513	Bullet Concrete	Patterson's Water Well Service	1972	228	4 2	212 228	E	130	46	May 5, 1972	Sub, E 2	Ind	Screen from 218 to 228 feet. Reported yield 60 gal/min when drilled. <u>1</u>
607	J. B. Sand and Gravel	Con-Tex Water Well Co.	1974	235	6 4	216 235	E	95	23	June 1974	Sub, E	Ind	Screen from 220 to 240 feet. Reported yield 500 gal/min when drilled. <u>1</u>
* 709	Montgomery County Municipal District No. 6	Layne-Texas Co.	1973	944	16 10	690 944	E	130	128	Oct. 5, 1973	T, E 100	P	101 feet of screen between 610 and 944 feet. Reported yield 850 gal/min with 176 feet drawdown when drilled. <u>1</u>
710	do	do	1973	1,903	--	--	J	130	Flowing	Sept. 14, 1973	N	N	Screen from 1,468 to 1,485 feet. Flowing 25 gal/min, 19 feet above surface.
711	do	do	1973	1,903	--	--	J	130	Flowing	Sept. 11, 1973	N	N	Screen from 1,670-1,690 feet. Flowing 10 gal/min, 22 feet above surface.
817	Oak Ridge Municipal Utilities District	Texas Water Wells Inc.	1973	998	10	988	E	130	109	Dec. 1, 1973	T, E 150	P	Screen from 718 to 800 feet. Reported yield 1,043 gal/min with 112 feet drawdown when drilled. <u>1</u>
818	Community Development and Construction	Layne-Texas Co.	1973	245	4 2	210 245	E	142	75	May 8, 1975	Sub, E	P	20 feet of screen from 210 to 245 feet. Supplies lake at Lamar Elementary School, Woodlands.
819	Robinson Trailer Courts	Turbine Pump Service	1971	281	4	281	E	145	56	July 5, 1971	Sub, E	P	<u>1</u>

Table 8.--Records of Wells in Montgomery County--Continued

Well	Owner	Driller	Date completed	Depth of well (ft)	Casing		Water bearing unit	Altitude of land surface (ft)	Water level		Method of lift	Use of water	Remarks
					Diameter (in.)	Depth (ft)			Above (+) below land surface datum (ft)	Date of measurement			
TS-60-53-820	South Montgomery County Municipal Utilities District	Layne-Western Co., Inc.	1977	500	20 12	210 500	E	118	85	May 1977	--	P	278 feet of screen from 215 to 493 feet. Reported yield 1,012 gal/min with 161 feet drawdown when drilled. <u>1/</u>
54-202	D. E. Martin, Pioneer Trails Subdivision	Schoppa Water Well Service	1974	585	4 2	563 585	E	140	40	Apr. 29, 1974	J, E 5	P	Screen from 565 to 585 feet. <u>1/</u>
803	Fountain Bleau Water System, Golden Trails Subdivision	Drago Water Wells	1973	360	4 2	330 360	E	125	67	May 29, 1973	Sub, E	P	Screen from 330 to 360 feet. <u>1/</u>
* 55-312	City of Splendor, Well 2	Lanford Drilling Co., Inc.	1978	1,007	10 4	939 1,007	E	126	37	Sept. 1978	Sub, E 40	P	Screen from 939 to 1,002 feet. Reported yield 300 gal/min with 220 feet drawdown when drilled. <u>1/</u>
509	Montgomery County Municipal Utilities District, No. 16	Layne-Western Co.	1974	587	16 10	370 587	E	101	49	Nov. 1974	T, E	P	Screen from 380 to 580 feet. Reported yield 1,100 gal/min with 53 feet drawdown when drilled. <u>1/</u>
707	New Caney Independent School District	B. J. Swinehart Co., Inc.	1975	370	6 4	323 370	E	102	51	July 26, 1975	Sub, E	P	Screen from 323 to 363 feet. Reported yield 230 gal/min when drilled. <u>1/</u>
806	Jeff Howeth	H and H Water Well Drilling Co.	1973	485	6 4	441 485	E	75	40	Sept. 14, 1973	Sub, E	P	Screen from 455 to 485 feet. <u>1/</u>
61-306	J. S. Norman and H. H. Norman	Layne-Western Co., Inc.	1973	1,059	16 10	600 1,059	E	104	130	Jan. 1974	--	Ind.	Screen from 612 to 1,054 feet. <u>1/</u>
* 63-203	Harris County Utilities District No. 5	Layne-Texas Co.	1976	975	20 12	720 975	E	72	106	Nov. 29, 1976	T, E	P	185 feet of screen from 730 to 955 feet. Reported yield 2,040 gal/min with 35 feet drawdown when drilled. <u>1/</u>

* See Table 11 for Chemical Analyses of Water From Wells.

1/ See Table 9 for Drillers' Logs of Wells.

Table 9.—Drillers' Logs of Wells in Montgomery County

	THICKNESS (feet)	DEPTH (feet)		THICKNESS (feet)	DEPTH (feet)
Well TS-60-35-905			Well TS-60-36-506		
Owner: Stanley Lake Utility District			Owner: La Terre Corp.		
			Driller: Bussell and Son, Inc.		
Clay	100	100	Top soil	3	3
Sand	7	107	Clay	247	250
Shale	16	123	Sand	16	266
Sand	95	218	Clay	99	365
Shale and sand	16	278	Sand	15	380
Shale	100	378	Clay	16	396
Sand	29	407	Sand	80	476
Shale	19	426			
Sand	31	457	Well TS-60-36-705		
Shale	31	488	Owner: Montgomery County Utilities District, No. 8		
Shale and shale streaks	14	502	Driller: Layne-Texas Co.		
Shale	20	522	Shale	29	29
Sand	78	600	Sand	6	35
Shale	2	602	Shale, gumbo	89	124
Sand	31	633	Sand	24	148
Shale (hard and sticky)	50	683	Shale	8	156
Shale, sandy	11	694	Sand	93	249
Shale, hard	6	700	Shale, sandy	127	376
Shale, hard and fine	52	752	Sand	18	394
Shale	12	764	Shale	2	466
Shale, hard	12	776	Shale, sandy	47	513
Shale	4	780	Sand and gravel	78	591
Shale, hard (brown)	124	904	Shale	57	648
Shale, sandy and lime streaks	27	931	Sand and shale streaks	88	736
Shale, hard	12	943	Shale	117	853
Shale, sandy and lime streaks	53	996	Sand, shale and lime streaks	26	879
Sand and streaks of shale	57	1,053	Sand	7	886
Sand, hard	10	1,063	Shale, sandy	16	902
Sand and shale streaks	96	1,159	Shale, hard	5	907
Shale, hard	16	1,175	Shale, sandy	10	917
Sand and shale streaks	31	1,206	Shale	18	935
Shale, hard	77	1,288	Shale, sandy	23	958
Shale, gumbo	5	1,288	Shale and lime streaks	38	996
Shale	22	1,310	Shale	114	1,110

Table 9.—Drillers' Logs of Wells in Montgomery County—Continued

	THICKNESS (feet)	DEPTH (feet)		THICKNESS (feet)	DEPTH (feet)
Well TS-60-37-411			Well TS-60-37-711—Continued		
Owner: John Weisinger, Wood Creek Subdivision			Shale, sandy		
Driller: O'Day Drilling Co.			Shale		
Sand	2	2	Shale, sandy	70	250
Clay	18	20	Sand	100	350
Gravel	20	40	Shale, sandy	450	800
Clay	110	150	Sand	120	920
Rock	1	151	Shale	10	930
Clay	14	165	Sand	30	960
Rock	2	167	Shale	40	1,000
Clay	33	200	Sand	80	1,080
Rock	6	206			
Clay	77	283	Well TS-60-37-805		
Sand	31	314	Owner: Texas National Golf and Development		
Clay	3	317	Driller: B. J. Swinehart Co., Inc.		
Sand	19	336	Clay	11	111
			Sand	65	176
Well TS-60-37-506			Clay	115	191
Owner: Harry Oxspring			Clay and rock	137	328
Driller: L. M. Patterson			Sand	20	348
Clay	12	12	Clay	9	357
Sand	10	22	Sand	29	386
Clay	32	54	Clay	38	424
Rock	2	56	Sand, fine silty	38	462
Clay	59	115	Clay	74	536
Sand	45	160	Sand	11	547
Rock	5	165	Clay	179	726
Clay	40	205	Sand	23	749
Rock	5	210	Clay	80	829
Clay	55	260	Sand, coarse and gravel	57	886
Rock	2	262	Clay	10	896
Clay	18	280			
Rock	2	282	Well TS-60-37-908		
Clay	35	317	Owner: Touchstone Utilities, Royal Forest Subdivision		
Sand	21	338	Driller: B. J. Swinehart Co., Inc.		
			Sand	2	2
Well TS-60-37-711			Clay	15	17
Owner: Panorama Municipal Utilities District			Sand	14	31
Driller: Water Resources, Inc.			Clay	34	65
Top soil and clay	10	10	Sand	14	79
Sand, red	17	27	Clay	55	134
Sand and gravel	9	36	Sand	26	160
Sand	60	96	Clay	27	187

Table 9.—Drillers' Logs of Wells in Montgomery County—Continued

	THICKNESS (feet)	DEPTH (feet)		THICKNESS (feet)	DEPTH (feet)
Well TS-60-37-908—Continued			Well TS-60-44-111—Continued		
Rock	30	217	Sand, tan	19	300
Sand	19	236	Shale	52	352
Clay	142	378	Shale, sandy	19	371
Sand, shaley	11	389	Sand	10	381
Clay	70	459	Shale, sandy	8	389
Sand	49	508	Sand	17	406
Clay	1	509	Shale with sand streaks	95	501
			Shale, sandy	25	526
			Shale with sand	35	561
			Sand	10	571
			Shale	2	573
			Sand	20	593
Well TS-60-43-511			Well TS-60-44-311		
Owner: Keenan Water Supply Corp.			Owner: Highland Hollow		
Driller: Lanford Drilling Co., Inc.			Driller: Con-Texas Water Well Co.		
Sand	3	3	Sand, surface and clay	22	22
Clay and sand	4	7	Gravel	30	52
Sand	38	45	Clay	23	75
Shale	50	95	Sand	20	95
Sand	30	125	Clay	55	150
Shale	15	140	Shale and hard streaks	250	400
Sand	25	165	Shale, sandy	8	408
Shale and lime	130	295	Sand	8	416
Sand	30	325	Shale and sand streaks	40	456
Lime and rock	2	327	Shale, sandy	5	461
Sand, shaley and shale	8	335	Sand	59	520
Sand	50	385	Shale, sandy	9	529
Shale	6	391			
Shale, sandy and sand	39	430			
Shale	65	495			
Well TS-60-44-111			Well TS-60-45-111		
Owner: April Sound, well 3			Owner: City of Conroe, well 8		
Driller: Con. Tex Water Well Co.			Driller: Layne-Texas Co.		
Clay and lime	61	61	Sand	3	3
Sand, cemented and clay	33	94	Clay, red and gravel	27	30
Clay	37	131	Clay	20	50
Sand	22	153	Sand	84	134
Clay	13	166	Clay, red	4	138
Sand, broken	14	180	Sand	6	144
Clay with sand streaks	8	188	Shale, gray and gravel	17	161
Sand, broken	26	214	Streaks gray shale	24	185
Shale	12	226	Shale and sandstone	16	201
Sand	18	244	Shale, brown and gravel, little	33	234
Shale	2	240			
Sand, gray	35	281			

Table 9.—Drillers' Logs of Wells in Montgomery County—Continued

	THICKNESS (feet)	DEPTH (feet)		THICKNESS (feet)	DEPTH (feet)
Well TS-60-45-111—Continued			Well TS-60-45-111—Continued		
Shale, gray	20	254	Shale	37	1,308
Sand and hard shale	24	278	Shale, sandy	5	1,313
Shale and sand streaks	15	293	Shale, hard	18	1,331
Sand and hard streaks	5	298	Sand and shale streaks	13	1,344
Shale, gray	14	312	Shale, hard	6	1,350
Shale and sand streaks	14	326	Sand and shale streaks	8	1,358
Shale	36	362	Shale	42	1,400
Sand and shale streaks	4	366			
Shale and sand streaks	85	451	Well TS-60-45-206		
Shale, sandy	17	468	Owner: Maycon		
Sand and shale streaks	18	486	Driller: Weisinger Water Well, Inc.		
Sand and shale streaks	22	508	Clay	40	40
Sand and shale streaks	31	539	Sand	20	60
Shale and sand streaks	7	546	Clay	26	86
Shale, blue, sandy	28	574	Sand	26	112
Sand	18	592	Clay	8	120
Shale	5	597	Sand	10	130
Sand and shale streaks	19	616	Clay	34	164
Shale	24	640	Sand	32	196
Shale and sand streaks	27	667	Shale with streaks of hard, thin sandy	264	460
Sand and shale streaks	18	685	Sand	30	490
Shale, hard blue	61	746	Shale and hard streaks	40	530
Sand and shale streaks	11	757	Sand with streaks, thin	110	640
Shale and shale, sandy	67	824	Shale	182	822
Sand	56	880	Sand	28	850
Shale, sandy	40	920	Shale	18	868
Sand and shale streaks	5	925	Sand	38	906
Shale, sandy	16	941	Shale	111	1,107
Sand and shale streaks	25	966			
Shale and sand streaks	20	986	Well TS-60-45-411		
Sand	10	996	Owner: Artesian Oaks Subdivision		
Shale and sand streaks	46	1,042	Driller: Patterson's Water Well Service		
Sand and shale streaks	32	1,074	Clay	12	12
Shale and sandy shale	22	1,096	Sand	58	70
Sand and shale streaks	31	1,127	Clay	10	80
Shale	19	1,146	Rock	1	81
Sand and shale streaks	27	1,173	Clay	59	140
Shale and sand streaks	15	1,188	Clay with rock breaks	285	425
Shale, sandy	41	1,229	Rock, hard	2	427
Shale	37	1,266	Sand, water	24	451
Sand	5	1,271			

Table 9.—Drillers' Logs of Wells in Montgomery County—Continued

	THICKNESS (feet)	DEPTH (feet)		THICKNESS (feet)	DEPTH (feet)
Well TS-60-45-712			Well TS-60-45-807—Continued		
Owner: City of Conroe			Clay	15	41
Driller: Texas Water Wells, Inc.			Sand, gravel and clay	20	61
Clay	85	85	Clay	35	96
Clay, sandy	20	105	Sand	32	128
Sand	99	204	Sand (good)	13	141
Clay	46	250	Clay	15	156
Clay, sand	10	260	Sand (good)	30	186
Clay	150	410			
Clay, sandy	130	540	Well TS-60-46-505		
Sand	80	620	Owner: Deerwood		
Clay	50	670	Driller: Weisinger Water Well, Inc.		
Sand	34	704	Clay	35	35
Clay	16	720	Sand	15	50
Sand	70	790	Clay	43	93
Clay	50	840	Sand	87	180
Sand	50	890	Clay	10	190
Clay	120	1,010	Sand	60	250
Sand	86	1,096	Clay	50	300
Clay	6	1,102	Rock	3	303
Sand	36	1,138	Clay	9	312
Clay	22	1,160	Sand	33	345
Sand	76	1,236			
Clay	14	1,250	Well TS-60-50-304		
Sand	40	1,290	Owner: Toby Smith		
Clay	10	1,300	Driller: Schoppa Water Well Service		
			Top soil	5	5
			Clay	50	55
			Sand	86	141
			Clay	9	150
			Sand, mixed with clay	10	160
			Clay	12	172
			Sand, mixed, clay and rock	30	202
			Sand, mixed	8	210
			Clay, mixed and rock	22	232
			Sand, mixed, rock, and clay	30	262
			Clay	8	370
			Rock	2	372
			Clay	28	400
			Rock	14	414
			Clay	61	475
			Rock	2	477
Well TS-60-45-713					
Owner: Clyde Smith					
Driller: Con-Tex Water Well Co.					
Clay	6	6			
Sand and gravel	50	56			
Shale	23	79			
Gravel	7	86			
Shale	35	121			
Sand	60	181			
Well TS-60-45-807					
Owner: River Plantation					
Driller: Con-Tex Water Well Co.					
Clay	16	16			
Sand	10	26			

Table 9.—Drillers' Logs of Wells in Montgomery County—Continued

	THICKNESS (feet)	DEPTH (feet)		THICKNESS (feet)	DEPTH (feet)
Well TS-60-50-304—Continued			Well TS-60-51-512—Continued		
Clay	28	505	Clay	144	384
Rock	36	541	Sand	32	416
Sand	13	554			
Rock, mixed and clay	11	565	Well TS-60-51-703		
Clay	3	568	Owner: Johnnie Clepper, Shady Oaks Subdivision		
Sand	10	578	Driller: Schoppa Water Well Service		
Rock	17	595	Top soil	5	5
Sand	5	630	Clay	24	29
			Sand	46	75
Well TS-60-51-511			Clay	20	95
Owner: D. A. Rickett, Hunters Retreat Subdivision			Sand	28	123
Driller: Schoppa Water Well Service			Clay	7	130
Top soil	3	3	Sand	62	192
Clay	40	43	Clay	38	230
Sand	31	74	Sand	12	242
Clay	46	120	Clay	23	265
Sand	40	160	Sand	5	270
Clay	8	168	Clay	57	327
Sand	35	203	Sand, mixed, rock and clay	135	555
Clay	9	212	Clay	35	590
Sand	14	226	Sand	47	637
Sand, mixed clay and rock	91	317			
Clay	64	381	Well TS-60-51-807		
Sand mixed and rock	32	413	Owner: A. R. Coe, Jr., Kipling Oaks Subdivision		
Clay, hard	151	564	Driller: Schoppa Water Well Service		
Clay, rock, rock mixed	147	711	Top soil	4	4
Sand	25	736	Clay	16	20
			Sand	10	30
Well TS-60-51-512			Clay	60	90
Owner: O. A. Rickett			Sand	64	154
Driller: Schoppa Water Well Service			Clay	4	158
Clay	10	10	Sand	12	170
Sand	10	20	Clay	15	185
Clay	30	50	Sand	16	201
Sand	20	70	Clay	24	225
Clay	51	121	Sand	8	233
Sand	44	165	Clay	122	355
Clay	8	173	Rock, mixed and clay	9	364
Sand	30	203	Clay	11	375
Clay	27	230	Rock, mixed and clay	10	385
Sand	10	240	Clay	205	590

Table 9.—Drillers' Logs of Wells in Montgomery County—Continued

	THICKNESS (feet)	DEPTH (feet)		THICKNESS (feet)	DEPTH (feet)
Well TS-60-51-807—Continued			Well TS-60-53-208		
Clay, sandy	23	613	Owner: Montgomery County Municipal Dist. 15		
Clay	14	627	Driller: Layne-Texas Co.		
Sand	46	673	Top soil	3	3
Well TS-60-51-808			Clay	4	7
Owner: Johnnie Clepper, Oak Hills Subdivision			Sand	35	42
Driller: Schoppa Water Well Service			Clay	28	70
Top soil	5	5	Sand	35	105
Clay	40	45	Clay	27	132
Sand	2	47	Sand	18	150
Clay	18	65	Clay	30	180
Sand	46	111	Sand	48	228
Clay	42	153	Shale	10	238
Sand	68	221	Sand	17	255
Well TS-60-52-205			Shale	160	415
Owner: Landcraft Westwood III Subdivision			Sand	15	430
Driller: Homeview Nat. Residence Development Corp.			Shale	90	520
Top soil	2	2	Shale and sandy shale streaks	102	622
Clay	19	21	Sand and sandy shale	143	765
Sand and gravel	19	40	Shale and sand streaks	122	887
Sand	13	53	Sand and shale streaks	44	931
Clay	13	66	Shale and lime	13	944
Sand	6	72	Sand and streaks of shale	53	997
Clay	74	146	Shale	7	1,004
Sand	62	208	Well TS-60-53-209		
Clay	23	231	Owner: Montgomery Co. Municipal Dist. 39		
Sand	65	296	Driller: Layne-Texas Co.		
Clay	4	300	Top soil	3	3
Well TS-60-52-406			Sandy clay	7	10
Owner: A. Cronin			Sand	37	47
Driller: Schoppa Water Well Service			Gravel, coarse	15	62
Top soil	4	4	Sand	46	108
Clay	23	27	Gravel	8	116
Sand	33	60	Clay	19	135
Clay	51	111	Sand and hard streaks	25	160
Sand	40	153	Rock	2	162
Clay	42	195	Shale and shale, sandy	32	194
Sand	23	218	Sand and shale streaks	53	247
Clay	4	222	Sand and shale, sandy	29	276
Sand	28	250	Shale, sandy and shale	38	314
			Sand	10	324

Table 9.—Drillers' Logs of Wells in Montgomery County—Continued

	THICKNESS (feet)	DEPTH (feet)		THICKNESS (feet)	DEPTH (feet)
Well TS-60-53-209—Continued			Well TS-60-53-513—Continued		
Shale and sand streaks	13	337	Sand	20	83
Sand and sandy shale	17	354	Clay	80	163
Shale and sand streaks	52	406	Sand	7	170
Shale, sandy and gravel	11	417	Clay	46	216
Rock	2	419	Sand, water	8	228
Sand and hard streaks	17	436			
Shale and sand streaks	84	520	Well TS-60-53-607		
Sand	6	526	Owner: J. B. Sand and Gravel		
Shale and shale, sandy	104	630	Driller: Con-Tex Water Well Co.		
Sand and shale streaks	64	694	Clay	8	8
Shale, hard, rock, and sand streaks	14	708	Sand and gravel	23	31
Sand and shale streaks	32	740	Clay	55	86
Sand and sandy shale	24	764	Sand with hard streaks	25	111
Shale, sandy	6	770	Shale	30	141
Sand and shale streaks	58	828	Sand with hard streaks	30	171
Sand and shale streaks	16	884	Rock	2	173
Shale	22	866	Sand	13	186
Sand and shale	11	877	Sand with hard streaks	5	191
Shale	13	890	Shale	25	216
Shale and sandy shale	19	909	Sand	4	220
Shale and sand	11	920	Rock	1	221
Shale	15	935	Sand	14	235
Shale, sandy and shale	15	950	Sand with hard streaks	76	241
Shale and shale streaks, sandy	50	1,000	Well TS-60-53-709		
Well TS-60-53-314			Owner: Montgomery County Municipal Utility District, No. 6		
Owner: Whispering Oaks			Driller: Layne-Texas Co.		
Driller: Turbine Pump Service			Top soil	5	5
Sand	59	59	Clay	221	226
Clay	10	69	Sand	338	564
Sand and gravel	35	104	Gravel	30	594
Clay, sandy and layers of rock	95	199	Sand and shale streaks	86	680
Clay, tough	50	249	Sand	10	690
Sand, good	20	269	Sand and shale streaks	53	743
Well TS-60-53-513			Sand	127	870
Owner: Bullet Concrete			Shale	31	901
Driller: Patterson's Water Well Service			Sand and shale streaks	227	1,128
Clay	22	22	Sand	43	1,171
Sand and gravel	33	55	Sand and shale streaks	50	1,221
Clay	8	63	Shale	47	1,268
			Sand	10	1,278

Table 9.—Drillers' Logs of Wells in Montgomery County—Continued

	THICKNESS (feet)	DEPTH (feet)		THICKNESS (feet)	DEPTH (feet)
Well TS-60-53-819—Continued			Well TS-60-54-803		
Clay	9	113	Owner: Fountain Bleau Water System		
Clay and sand streaks	10	123	Driller: Drago Water Wells		
Sand	10	133	Sand, fine brown	10	10
Clay	41	174	Clay, brown	26	36
Sand, hard	29	203	Sand, fine brown	14	50
Sand and rock	17	220	Clay, yellow	11	61
Clay	34	254	Sand, medium brown	16	77
Sand and gravel	27	281	Clay, yellow	8	85
Well TS-60-53-820			Sand, medium light brown	25	110
Owner: South Montgomery Utility District			Clay, yellow	42	152
Driller: Layne-Western Co.			Sand, medium white	18	170
Top soil	1	1	Clay, brown	56	226
Sand	8	9	Sand, medium white and light brown	34	260
Clay	15	24	Clay, yellow and blue	70	330
Sand and gravel	45	69	Sand, medium, coarse light brown	30	360
Clay	10	79	Well TS-60-55-312		
Sand	30	109	Owner: City of Splendora, well 2		
Clay, hard	103	212	Driller: Lanford Drilling Co.		
Sand and clay blocks	96	308	Sand and clay	10	10
Clay	51	359	Shale	60	70
Sand	42	401	Shale and sandy shale	125	195
Clay	48	449	Shale	40	235
Sand	39	488	Sand	25	260
Clay	11	499	Shale	35	295
Well TS-60-54-202			Shale, sandy and shale	250	545
Owner: D. E. Martin, Pioneer Trails Subdivision			Shale	400	945
Driller: Schoppa Water Well Service			Sand	60	1,005
Top soil	4	4	Well TS-60-55-509		
Clay	11	15	Owner: Montgomery Co. Municipal Util. Dist.		
Sand	45	60	Driller: Layne-Western Co.		
Clay	59	119	Sand	29	29
Sand	36	155	Clay	40	69
Clay	27	182	Sand and rock	33	102
Sand	45	227	Clay	143	245
Clay	20	247	Sand, hard and rock	25	270
Sand	56	303	Clay	31	301
Clay	102	405	Sand and rock	31	332
Sand	6	411	Clay	23	355
Clay	152	563	Sand and rock	10	365
Sand	22	585			

Table 9.—Drillers' Logs of Wells in Montgomery County—Continued

	THICKNESS (feet)	DEPTH (feet)		THICKNESS (feet)	DEPTH (feet)
Well TS-60-55-509—Continued			Well TS-60-55-806		
			Owner: Jeff Howeth		
			Driller: H & H Water Well Drilling Co.		
Clay	155	520	Clay	24	24
Sand and rock	6	576	Sand	5	29
Clay	52	578	Clay	2	31
Sand and rock	75	653	Sand	52	83
Clay	4	657	Clay	6	89
Sand and rock	52	709	Sand	15	104
Clay	14	723	Clay	43	147
Sand and rock	55	778	Sand	22	169
Clay	64	842	Clay	22	191
Sand and rock	22	864	Sand	8	199
Clay	13	877	Clay	20	219
Sand and rock	50	927	Sand	10	229
Clay	43	970	Clay	26	255
Sand and rock	27	997	Sand	74	329
Clay	47	1,044	Clay	59	388
Sand and rock	3	1,047	Sand	13	401
Clay	23	1,070	Clay	24	425
Sand and rock	43	1,113	Sand	59	484
Clay	45	1,158			
Sand	19	1,177	Well TS-60-61-306		
Clay	20	1,197	Owner: J. S. Norman and H. H. Norman		
Sand and rock	60	1,257	Driller: Layne-Western Co.		
Clay	29	1,286	Sand, gravel	5	5
T.D.	12	1,298	Clay	20	25
			Sand and gravel	20	45
Well TS-60-55-707			Sand	20	65
Owner: New Caney Independent School District			Sand and clay strips	35	100
Driller: B. J. Swinehart Co., Inc.			Clay	10	110
Clay	8	8	Rock	3	113
Sand	76	84	Clay and sand strips	17	130
Clay	8	92	Clay and rock	45	175
Sand	5	97	Sand rock	40	215
Clay, sandy	38	135	Clay	25	240
Sand, clay streaks	80	215	Sand and rock	15	255
Sand	14	229	Sand and clay strips	35	290
Sand, rock	18	247	Sand and rock breaks	16	306
Sand	10	257	Clay	96	402
Clay	66	323	Rock and sand	31	433
Sand	46	369	Clay	22	455
Clay	3	372			

Table 9.—Drillers' Logs of Wells in Montgomery County—Continued

	THICKNESS (feet)	DEPTH (feet)		THICKNESS (feet)	DEPTH (feet)
Well TS-60-61-306—Continued			Well TS-60-63-203—Continued		
Sand and rock	5	460	Sand	15	35
Clay	30	490	Clay	17	52
Sand and rock	19	509	Sand and fine gravel	78	130
Clay and rock	26	535	Shale and sand streaks	125	255
Clay and sand strips	20	555	Sand and few sand streaks	22	277
Clay and sand	30	585	Shale	48	325
Rock and sand	10	595	Sand	32	357
Clay and sand strips	10	605	Shale	13	370
Sand	5	610	Sand and shale streaks	54	424
Clay and sand	35	645	Shale	25	449
Rock	8	653	Sand and shale streaks	37	486
Sand and clay strips	7	660	Shale with sand streaks	30	516
Rock and sand strips	33	693	Sand and shale streaks	14	530
Sand and clay strips	30	723	Sand with shale streaks	33	563
Sand and clay	28	751	Sand with shale	24	587
Sand	64	815	Shale	133	620
Clay and sand strips	35	850	Shale and lime streaks	7	627
Rock and sand strips	20	870	Sand and shale streaks	20	647
Sand and clay	4	874	Shale, sand streaks and lime	26	673
Sand	11	885	Sand and shale streaks	7	680
Clay and sand strips	30	915	Sand	10	690
Sand and rock breaks	15	930	Shale and lime streaks	5	695
Clay	60	990	Sand and lime streaks	15	710
Sand and clay strips	15	1,005	Shale and sand streaks	17	727
Clay	50	1,055	Sand with shale streaks	120	847
Sand and clay strips	18	1,073	Shale, sandy with sand	49	896
Clay	28	1,101	Sand with shale, sandy	16	1,012
Clay	5	1,106	Shale, hard and sand, streaks	15	1,027
			Sand and shale streaks	7	1,034
			Shale	8	1,042
			Shale and sand streaks	8	1,050
Well TS-60-63-203					
Owner: Harris County Utilities District, No. 5					
Driller: Layne-Texas Co.					
Top soil	5	5			
Clay	15	20			

Table 10.—Water Levels in Wells in Montgomery County

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
Well TS-60-35-202					
Owner: Miss Flower Follett					
Elevation: 327					
Completion Interval: -107					
Feb. 25, 1975	51.22	Mar. 3, 1975	79	Mar. 3, 1975	66.72
June 5, 1975	50.84	Mar. 29, 1976	69.26	Sept. 16, 1976	69.86
Sept. 16, 1975	50.59	Feb. 14, 1977	73	Feb. 14, 1977	65.45
Dec. 9, 1975	50.77	Feb. 27, 1978	84	Feb. 27, 1978	73.00
Mar. 17, 1976	50.66	Jan. 24, 1979	107	Jan. 24, 1979	86.30
June 3, 1976	51.52	June 7, 1979	109	June 7, 1979	83.25
Sept. 16, 1976	50.47	Well TS-60-45-504			
Dec. 2, 1976	50.63	Owner: City of Conroe, well 2			
Feb. 16, 1977	50.30	Elevation: 214			
Sept. 7, 1977	50.09	Completion Interval: 1,099-1,221			
Jan. 24, 1978	50.30	Feb. 25, 1975	75.53	Feb. 25, 1975	14.49
June 8, 1978	49.09	Mar. 3, 1975	73.29	June 5, 1975	14.33
Sept. 5, 1978	50.38	June 5, 1975	81.20	Sept. 15, 1975	16.62
Jan. 24, 1979	50.48	Aug. 16, 1975	72.14	Dec. 9, 1975	19.83
June 4, 1979	49.36	Dec. 1975	70.08	Mar. 17, 1976	20.45
Sept. 27, 1979	49.70	Mar. 17, 1976	71.51	June 3, 1976	15.84
Well TS-60-37-401					
Owner: City of Willis					
Elevation: 380					
Completion Interval: 282-362					
Feb. 25, 1975	187.04	June 3, 1976	70.28	Sept. 16, 1976	16.20
Well TS-60-45-501					
Owner: City of Conroe, well 5					
Elevation: 215					
Completion Interval: 910-1,270					
Sept. 16, 1976	91.51	Sept. 16, 1976	74.93	Dec. 2, 1976	12.59
Feb. 14, 1977	89.31	Dec. 2, 1976	72.01	Feb. 14, 1977	8.99
Feb. 27, 1978	85.02	Feb. 14, 1977	70.54	June 7, 1977	13.00
Sept. 12, 1978	96.96	June 7, 1977	77.94	Sept. 6, 1977	16.62
Jan. 24, 1979	99.48	Sept. 6, 1977	97.74	Jan. 24, 1978	16.93
Well TS-60-45-503					
Owner: City of Conroe, well 4					
Elevation: 212					
Completion Interval: 950-1,320					
Mar. 3, 1975	79	Jan. 24, 1978	81.96	June 8, 1978	18.09
Mar. 29, 1976	69.26	June 8, 1978	88.35	Sept. 5, 1978	20.18
Feb. 14, 1977	73	Sept. 5, 1978	99.48	Jan. 24, 1979	17.25
Feb. 27, 1978	84	Jan. 24, 1979	90.39	June 7, 1979	14.14
Jan. 24, 1979	107	June 7, 1979	87.05	Sept. 25, 1979	12.56
June 7, 1979	109	Sept. 27, 1979	97.49		
Well TS-60-45-507					
Owner: City of Conroe, well 3					
Elevation: 205					
Completion Interval: 1,050-1,238					
Mar. 3, 1975	66.72				
Sept. 16, 1976	69.86				
Feb. 14, 1977	65.45				
Feb. 27, 1978	73.00				
Jan. 24, 1979	86.30				
June 7, 1979	83.25				
Sept. 27, 1979	87.79				

Table 11.--Chemical Analyses of Meter From Wells in Montgomery County

When no potassium (K) is reported, sodium and potassium are calculated and reported as sodium (Na) Water-bearing units: C, Chicot aquifer; B, Beaufort aquifer; S, upper unit of Jasper aquifer

Well	Owner	Depth producing interval, feet (ft)	Water-bearing unit	Date	Dis-solved silica (SiO ₂) (mg/l)	Dis-solved iron (Fe) (mg/l)	Dis-solved manganese (Mn) (mg/l)	Dis-solved calcium (Ca) (mg/l)	Dis-solved magnesium (Mg) (mg/l)	Dis-solved sodium (Na) (mg/l)	Dis-solved potassium (K) (mg/l)	Dis-solved bicarbonate (HCO ₃) (mg/l)	Dis-solved carbonate (CO ₃) (mg/l)	Dis-solved sulfate (SO ₄) (mg/l)	Dis-solved chloride (Cl) (mg/l)	Dis-solved fluoride (F) (mg/l)	Dis-solved nitrate (NO ₃) (mg/l)	Dis-solved phosphate (P) (mg/l)	Dis-solved boron (B) (mg/l)	Dis-solved silica (sum of silica, iron, boron, copper, (Cu, Ni) (mg/l)	Hardness (Ca, Mg) (mg/l)	Pre-cipitated sodium (mg/l)	Re-sidual sodium carbonate (RSC) (mg/l)	Sodium adsorption ratio (SAR)	Specific conductance (micro-mhos at 25° C)	pH	Temperature (°C)
1/ TR-60-35-905	Stanley Lake Municipal Utilities District No. 1	522-636 700-750	JU	Sept. 25, 1973	36	< 50 2/	30 3/	64	5	64	--	281	0	25	42	0.2 4/	--	--	--	374	180	--	--	625	7.45	--	
1/ 36-705	Montgomery County Utilities District No. 1	485-735	JU	July 11, 1973	29	150 2/	40 3/	53	8	60	--	283	0	24	25	.2 4/	--	--	--	338	165	--	--	530	7.5	--	
3/ 43-511	Kewan Water Supply Corp.	347-389	C	Sept. 11, 1978	--	200	10	92.9	17.1	33.1	--	339	0	12.0	60	.3	--	--	--	--	303	--	--	650	7.2	--	
1/ 44-311	Highland Hollow	500-526	E	Sept. 16, 1974	21	410 2/	< 20 3/	70	13	47	--	320	0	13	40	.2 4/	--	--	361	228	--	--	635	7.31	--		
1/ 45-111	City of Conroe Well 8	825-1,189	E	Nov. 10, 1978	26	160 2/	< 50 3/	38	6	84	--	281	0	19	38	.2 4/	--	--	349	119	--	--	491	7.57	--		
1/ 53-208	Montgomery County Municipal Utilities District No. 15	625-805	E	Apr. 24, 1974	18	20 2/	40 3/	26	7	106	--	356	0	2	20	.3 4/	--	--	354	94	--	--	711	7.51	--		
1/ 53-209	Montgomery County Municipal Utilities District No. 39	660-880	E	May 19, 1977	18	90 2/	20 3/	40	10	80	--	336	0	13	18	.3 4/	--	--	344	141	--	--	595	7.6	--		
3/ 55-312	City of Splendore Well 2	944-1,007	E	Oct. 17, 1978	--	190	0	13,600	2.6	126.9	--	312.3	0	14	35.5	.4	--	0	--	--	45	--	--	575	7.8	--	
1/ 63-203	Harris County Utilities District No. 5	730-955	E	Dec. 2, 1976	20	50 2/	20 3/	45	4	20	--	168	0	12	15	.1 4/	--	--	199	127	--	--	331	7.73	--		

1/ Analyzed by Edna Wood Laboratories.
 2/ Total iron (Fe). (mg).
 3/ Total calcium (Ca). (mg).
 4/ Total fluoride (F). (mg).
 5/ Analyzed by Pope Testing Laboratories.

