

**RECORDS OF WELLS, DRILLERS' LOGS, WATER-LEVEL
MEASUREMENTS, AND CHEMICAL ANALYSES OF GROUND WATER
IN BRAZORIA, FORT BEND, AND WALLER
COUNTIES, TEXAS, 1980-84**

By James F. Williams III, C.E. Ranzau, Jr., W.B. Lind, and L.S. Coplin

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ABSTRACT

Information on major new water wells in Brazoria, Fort Bend, and Waller Counties was compiled by the U.S. Geological Survey from 1980 through 1984. 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.

INTRODUCTION

Hydrologic data from Brazoria, Fort Bend, and Waller Counties, Texas, are being collected in cooperation with the Harris-Galveston Coastal Subsidence District and the City of Houston to evaluate the ground-water 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 through 1974. The second report (Ratzlaff, Ranzau, and Lind, 1983) presents data collected from 1975 through 1979. This report presents records of wells, drillers' logs, water-level measurements, and chemical analyses of ground water collected during 1980-84 (tables 1-12). The records of wells and drillers' logs are for wells completed during 1980-84, but the water-level measurements and chemical analyses are new data on the newly drilled wells or additional data (1980-84) on previously published wells. All the wells listed in tables 1-12 are shown in figures 1-3. 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.

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 7-1/2-minute quadrangles which are given two-digit numbers from 01 to 64. These are the third and fourth digits of the well number. Each 7-1/2-minute quadrangle is divided into 2-1/2-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 2-1/2-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 (figs. 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 7-1/2-minute quadrangle; and the first two digits are shown by the large block numerals 59, 60, 65, 66, and 81.

In addition to the seven-digit well number, a two-letter prefix is used to identify the county. The prefix for Brazoria County is BH; for Fort Bend County, JY; and for Waller County, YW.

SELECTED REFERENCES

- Naftel, W. L., Vaught, Kenneth, and Fleming, Bobbie, 1976, Records of wells, drillers' logs, water-level measurements, and chemical analyses of ground water in Brazoria, Fort Bend, and Waller Counties, Texas, 1966-74: Texas Water Development Board Report 201, 91 p., 3 figs.
- Ratzlaff, K. W., 1982, Land-surface subsidence in the Texas coastal region: Texas Department of Water Resources Report 278, 30 p., 8 figs.
- Ratzlaff, K. W., Ranzau, C. E., and Lind, W. B., 1983, Records of wells, drillers' logs, water-level measurements, and chemical analyses of ground water in Brazoria, Fort Bend, and Waller Counties, Texas, 1975-79: Texas Department of Water Resources Report 277, 56 p., 3 figs.
- Sandeen, W. M., and Wesselman, J. B., 1973, Ground-water resources of Brazoria County, Texas: Texas Water Development Board Report 163, 205 p., 29 figs.
- Wesselman, J. B., 1972, Ground-water resources of Fort Bend County, Texas: Texas Water Development Board Report 155, 185 p., 33 figs.
- Wilson, C. A., 1967, Ground-water resources of Austin and Waller Counties, Texas: Texas Water Development Board Report 68, 231 p., 27 figs.

Table 1.--Records of wells in Brazoria County

Water levels and drawdown: Reported water levels and drawdown given in feet.
 Use of water : H, domestic; I, irrigation; N, industrial; P, public supply.
 Water-bearing unit : CHCT, Chicot aquifer.
 Type of data available : D, drillers' log (see table 2); E, electric log; I, induction log;
 Q, chemical analysis (see table 4).

WELL	OWNER	DRILLER	DATE COMPLETED	DEPTH OF WELL (feet)	DIAMETER OF WELL (inches)	SCREEN		WATER-BEARING UNIT	ALTITUDE OF LAND SURFACE (feet)	WATER LEVEL		USE OF WATER	DISCHARGE (gallons per minute)	DRAWDOWN (feet)	TYPE OF DATA AVAILABLE
						LENGTH (feet)	DEPTH INTERVAL (feet)			BELOW LAND SURFACE DATUM (feet)	DATE OF MEASUREMENT				
BH-65-29-601	HOMECRAFT DEVELOPMENT	BUSSELL AND SON, INC.	1981	572	8,5	60	512 - 572	CHCT	60	228	07/18/1981	I	375	--	D
BH-65-29-602	HOMECRAFT DEVELOPMENT	O'DAY DRUG CO.	1981	578	8,6	60	518 - 578	CHCT	60	168	06/04/1981	I	300	--	D
BH-65-30-604	CITY OF PEARLAND, WELL NO. 7	LAYNE-TEXAS CO.	1982	845	16,10	170	540 - 830	CHCT	51	217	08/17/1982	P	1022	--	D,E,Q
BH-65-30-615	CITY OF PEARLAND, WELL NO. 6	LAYNE-TEXAS CO.	1981	620	16,10	110	496 - 606	CHCT	46	201	06/24/1981	P	1043	33	D,E,Q
BH-65-30-910	SMITH, DAVID L., JR.	O'DAY DRUG CO.	1982	622	6,4	30	592 - 622	CHCT	45	190	04/20/1982	P	170	--	D
BH-65-37-806	GRIFFIT GRASS	O'DAY DRUG CO.	1982	123	6	20	103 - 123	CHCT	47	20	06/11/1982	I	200	--	D
BH-65-38-303	AMCO PRODUCTION	O'DAY DRUG CO.	1980	581	6,4	41	540 - 581	CHCT	42	170	05/14/1980	N	300	--	D
BH-65-44-310	MOONLAKE RANCH	WALKER WATER WELL SERVICE, INC.	1983	144	6	10	134 - 144	CHCT	47	17	01/25/1983	I	300	--	D
BH-65-45-203	SCHLUMBERGER PERFORATING	BUSSELL AND SON, INC.	1982	565	10,6	90	370 - 565	CHCT	52	98	06/10/1982	N	--	--	D
BH-65-45-304	AARON, JACK	O'DAY DRUG CO.	1979	132	6	20	112 - 132	CHCT	37	4	12/08/1979	N	200	--	D
BH-65-45-305	AARON, JACK	O'DAY DRUG CO.	1980	133	6	20	113 - 133	CHCT	37	12	06/18/1980	N	200	--	D
BH-65-46-207	OAK MANOR M.U.D., WELL NO. 4	ROBINSON WATER WELL SERVICE, INC.	1979	725	6	60	510 - 725	CHCT	25	90	09/20/1979	P	--	--	D
BH-65-51-103	EDLING GRASS FARM	FINCH WATER WELL SERVICE	1979	97	6	23	30 - 97	CHCT	45	27	11/10/1979	I	--	--	D
BH-65-51-104	TODD, JULES	CROWELL DRUG CO.	1983	403	14,12	243	121 - 403	CHCT	45	--	--	I	--	--	--
BH-65-51-605	VARNER CREEK M.U.D., WELL NO. 2	LAYNE-TEXAS CO.	1981	650	14,8	65	575 - 640	CHCT	34	81	01/14/1982	P	768	59	D,I,Q
BH-65-51-812	GUPTON, T.M.	LEONARD W. MICKELSON	1980	650	12	427	223 - 650	CHCT	36	20	06/ /1980	I	--	--	D

Table 1.--Records of wells in Brazoria County--Continued

WELL	OWNER	DRILLER	DATE COMPLETED	DEPTH OF WELL (feet)	DIAMETER OF WELL (inches)	SCREEN		WATER-BEARING UNIT	ALTITUDE OF LAND SURFACE (feet)	WATER LEVEL		USE OF WATER	DISCHARGE (gallons per minute)	DRAWDOWN (feet)	TYPE OF DATA AVAILABLE
						LENGTH (feet)	DEPTH INTERVAL (feet)			BELOW LAND SURFACE DATUM (feet)	DATE OF MEASUREMENT				
BH-65-52-806	WILLO GLEN PLANTATION	LEONARD W. MICKELSON	1981	411	18,12	202	209 - 411	CHCT	25	18	08/ /1981	I	--	--	D
BH-65-53-405	KELLEY, TED	ANCHOR WATER WELL	1983	210	6	20	190 - 210	CHCT	34	28	07/09/1983	I	312	--	D
BH-65-53-511	CITY OF ANGLETON, WELL NO. 10	LANDFORD DRLG CO., INC.	1982	881	14,8	58	800 - 878	CHCT	31	115	05/11/1982	P	602	100	D,E,Q
BH-65-53-512	HAYNES, A.B.	PAZAK WATER WELL SERVICE	1982	240	6	60	180 - 240	CHCT	32	15	08/04/1982	N	--	--	D
BH-65-58-304	RUSH, GEORGE L.	FINCH WATER WELL SERVICE	1978	148	6	50	98 - 148	CHCT	40	18	05/24/1978	I	--	--	D
BH-65-58-622	PHILLIPS PETROLEUM CO., WELL NO. 11-A	FINCH WATER WELL SERVICE	1981	165	12	45	120 - 165	CHCT	37	38	06/07/1981	N	--	--	D
BH-65-59-430	PHILLIPS PETROLEUM CO., WELL NO. 14	LAYNE-TEXAS CO.	1980	176	20,12	40	126 - 166	CHCT	37	39	04/28/1980	N	513	29	D,Q
BH-65-60-403	BRAZORIA I.S.D.	O'DAY DRLG CO.	1979	501	6,4	35	451 - 486	CHCT	25	60	08/10/1979	P	150	--	D
BH-65-61-511	CITY OF LAKE JACKSON, WELL NO. 14	LAYNE-WESTERN CO., INC.	1980	338	20,12	52	270 - 328	CHCT	16	115	12/ /1980	P	302	77	D,Q
BH-65-61-512	CITY OF LAKE JACKSON, WELL NO. 12	LAYNE-WESTERN CO., INC.	1981	348	20,12	60	284 - 338	CHCT	19	130	01/ /1981	P	503	55	D,Q
BH-65-61-707	TEXAS DEPARTMENT OF CORRECTIONS, CLEMONS UNIT, WELL NO. 3	LAYNE-TEXAS CO.	1978	360	16,10	48	290 - 340	CHCT	14	114	06/21/1979	I	250	45	D,E
BH-65-61-916	CITY OF CLUTE, WELL NO. 7	B.J. SWINEHART CO., INC.	1980	257	10,8	50	203 - 253	CHCT	14	74	04/31/1980	P	450	61	D
BH-65-61-917	CITY OF RICHMOND, WELL NO. 2	LAYNE-TEXAS CO.	1981	342	16,10	60	180 - 320	CHCT	15	85	04/22/1981	P	372	71	D,E,Q
BH-65-61-918	CITY OF CLUTE, CITY PARK NO. 2	B.J. SWINEHART CO., INC.	1981	252	10,8	30	209 - 249	CHCT	16	86	05/ /1981	P	400	28	D
BH-65-64-403	TREASURE ISLAND M.U.D.	BIRDWELL WATER WELL SERVICE CO., INC.	1983	286	6,4	41	224 - 265	CHCT	5	35	06/04/1983	P	60	--	D

Table 1.--Records of wells in Brazoria County--Continued

WELL	OWNER	DRILLER	DATE COMPLETED	DEPTH OF WELL (feet)	DIAMETER OF WELL (inches)	SCREEN		WATER-BEARING UNIT	ALTITUDE OF LAND SURFACE (feet)	WATER LEVEL		USE OF WATER	DISCHARGE (gallons per minute)	DRAWDOWN (feet)	TYPE OF DATA AVAILABLE
						LENGTH (feet)	DEPTH INTERVAL (feet)			BELOW LAND SURFACE DATUM (feet)	DATE OF MEASUREMENT				
BH-81-06-111	DOW CHEMICAL CO., OYSTER CREEK, WELL NO. 26	B.J. SWINEHART CO., INC.	1980	214	6,4	18	191 - 209	CHCT	8	70	03/27/1980	N	75	40	D
BH-81-06-112	DOW CHEMICAL CO., OYSTER CREEK, WELL NO. 27	B.J. SWINEHART CO., INC.	1980	240	6,4	7	230 - 237	CHCT	7	86	03/21/1980	N	100	30	D
BH-81-06-113	DOW CHEMICAL CO., OYSTER CREEK, WELL NO. 28	B.J. SWINEHART CO., INC.	1980	245	6,4	10	200 - 210	CHCT	7	68	08/ /1980	N	50	83	D
BH-81-06-114	CITY OF FREEPORT, LAYNE-TEXAS CO. WELL NO. 13		1982	284	16,10	40	160 - 274	CHCT	5	69	09/01/1982	P	264	74	D,E,Q
BH-81-06-115	DOW CHEMICAL CO., OYSTER CREEK, WELL NO. 29	B.J. SWINEHART CO., INC.	1980	200	6,4	14	183 - 197	CHCT	7	62	02/08/1980	N	64	19	D
BH-81-06-212	CITY OF OYSTER CREEK, WELL NO. 1	B.J. SWINEHART CO., INC.	1980	238	14,8	30	205 - 235	CHCT	5	80	03/19/1980	P	300	44	D
BH-81-06-213	CITY OF OYSTER CREEK, WELL NO. 2	B.J. SWINEHART CO., INC.	1980	253	14,8	50	200 - 250	CHCT	5	75	03/22/1980	P	300	--	D
BH-81-06-523	CANAL SERVICE CO. FINCH WATER WELL SERVICE		1980	230	6,4	20	210 - 230	CHCT	5	94	10/20/1980	H	--	--	D

Table 2.--Drillers' logs of wells in Brazoria County

	Thickness (feet)	Depth (feet)		Thickness (feet)	Depth (feet)
Well BH-65-29-601 Owner: Homecraft Development Driller: Bussell and Son, Inc.			Well BH-65-30-604--Continued		
			Sand and shale streaks	27	318
Topsoil and clay	173	173	Shale	15	333
Sand	24	197	Sand	22	355
Clay	311	508	Shale	24	379
Sand	64	572	Sand and shale	140	519
			Sand and few shale streaks	73	592
Well BH-65-29-602 Owner: Homecraft Development Driller: O'Day Drilling Co.			Sand and shale	59	651
Topsoil	3	3	Shale and sand	121	772
Clay	93	96	Sand	16	788
Sand	32	128	Shale and sand	51	839
Clay	147	275	Shale	36	875
Sand	26	301	Sand and shale	59	934
Clay	41	342	Sand, fine	45	979
Sand	27	369	Shale	16	995
Clay	36	405			
Sand	15	420	Well BH-65-30-615 Owner: City of Pearland, Well No. 6 Driller: Layne-Texas Co.		
Clay	96	516	Topsoil	2	2
Sand	62	578	Clay, black	3	5
			Clay, white and red	36	41
Well BH-65-30-604 Owner: City of Pearland, Well No. 7 Driller: Layne-Texas Co.			Sand, fine, red	5	46
Topsoil	2	2	Clay, white and red	71	117
Clay	36	38	Sand, fine, red	10	127
Sand	10	48	Clay	9	136
Clay	35	83	Sand, fine, red	37	173
Sand	10	93	Sand and sandy shale layers	32	205
Clay	34	127	Sand and shale, broken	37	242
Sand	29	156	Shale	8	250
Clay	27	183	Sand and shale	87	337
Shale	84	267	Shale	15	352
Sand	11	278	Sand	12	364
Shale	13	291	Shale	23	387

Table 2.--Drillers' logs of wells in Brazoria County--Continued

	Thickness (feet)	Depth (feet)		Thickness (feet)	Depth (feet)
Well BH-65-30-615--Continued			Well BH-65-30-910--Continued		
Sand	6	393	Clay	22	453
Shale	16	409	Sand and clay	14	467
Sand, fine gravel and shale streaks	21	430	Clay	15	482
Sand and shale streaks	125	555	Sand	140	622
Sand, fine gravel and shale, lignite and wood	24	579			
Sand and shale streaks	28	607	Well BH-65-37-806 Owner: Griffit Grass Driller: O'Day Drilling Co.		
Shale	18	625	Topsoil	3	3
Shale, sandy	10	635	Clay	67	70
Shale, sandy and sand layers	33	668	Sand	53	123
Sand and shale streaks	24	692			
Shale, sandy	28	720	Well BH-65-38-303 Owner: Amoco Production Driller: O'Day Drilling Co.		
Sand and shale streaks	85	805	Topsoil	3	3
Sand	50	855	Clay	77	80
Shale	10	865	Sand	10	90
Sand	37	902	Clay	95	185
Shale	16	918	Sand	15	200
Sand	48	966	Clay	30	230
Shale and sand streaks	30	996	Sand	20	250
Shale	34	1030	Clay	78	328
Sand	3	1033	Sand	12	340
Shale	15	1048	Clay	77	417
Sand and shale streaks	41	1089	Sand	9	426
Shale	7	1096	Clay	14	440
Sand and shale streaks	26	1122	Sand	4	444
			Clay	2	446
Well BH-65-30-910 Owner: David L. Smith, Jr. Driller: O'Day Drilling Co.			Sand	11	457
Topsoil	2	2	Clay	21	478
Clay	111	113	Sand	103	581
Sand	8	121			
Clay	309	430			
Sand	1	431			

Table 2.--Drillers' logs of wells in Brazoria County--Continued

	Thickness (feet)	Depth (feet)		Thickness (feet)	Depth (feet)
Well BH-65-44-310 Owner: MoonLake Ranch Driller: Walker Water Well Service			Well BH-65-45-305 Owner: Jack Aaron Driller: O'Day Drilling Co.		
Topsoil	4	4	Topsoil	3	3
Clay	3	7	Clay	2	5
Sand	33	40	Sand	15	20
Clay	31	71	Clay	55	75
Sand	27	98	Sand	17	92
Clay	14	112	Clay	9	101
Sand, fine, white	8	120	Sand	32	133
Sand	12	132			
Gravel	10	142	Well BH-65-46-207 Owner: Oak Manor Municipal Utility District, Well No. 4 Driller: Robinson Water Well Service, Inc.		
Clay	3	145	Clay	8	8
			Sand	7	15
Well BH-65-45-203 Owner: Schlumberger Perforating Driller: Bussell and Son, Inc.			Clay	85	100
Clay	15	15	Sand	10	110
Sand, surface	25	40	Clay	70	180
Sand	327	367	Sand	20	200
Sand	33	400	Clay	180	380
Clay	21	421	Sand	10	390
Clay, slightly sandy	24	445	Clay	120	510
Sand	30	475	Sand	20	530
Clay	55	530	Clay	80	610
Sand	35	565	Sand	10	620
			Clay	36	656
Well BH-65-45-304 Owner: Jack Aaron Driller: O'Day Drilling Co.			Sand	15	671
Topsoil	4	4	Clay	39	710
Clay	9	13	Sand	15	725
Sand	23	36	Clay and shell	69	794
Clay	77	113			
Sand	19	132			

Table 2.--Drillers' logs of wells in Brazoria County--Continued

	Thickness (feet)	Depth (feet)		Thickness (feet)	Depth (feet)
Well BH-65-51-103 Owner: Edling Grass Farm Driller: Finch Water Well Service			Well BH-65-51-812 Owner: T.M. Gupton Driller: Leonard W. Mickelson		
Clay, red	30	30	Topsoil and clay	65	65
Sand	10	40	Clay layers and sand	95	160
Clay, red	10	50	Clay	15	175
Clay, blue	34	84	Sand layers and clay	48	223
Sand	13	97	Sand	326	549
			Clay layers and sand	67	616
			Sand	34	650
Well BH-65-51-605 Owner: Varner Creek Municipal Utility District, Well No. 2 Driller: Layne-Texas Co.			Well BH-65-52-806 Owner: Willo Glen Plantation Driller: Leonard W. Mickelson		
Topsoil	2	2			
Shale, sandy	57	59	Topsoil and clay	49	49
Shale	21	80	Sand, fine	47	96
Sand, coarse and gravel	41	121	Sand layers and clay	31	127
Shale	19	140	Gravel layers and clay	31	158
Sand, coarse and gravel	11	151	Gravel and sand	62	220
Shale, sandy shale and sand streaks	32	183	Sand layers and clay	126	346
Sand	13	196	Sand	63	409
Shale, sandy and sand streaks	89	285			
Shale and sandy shale	60	345			
Sand	20	365	Well BH-65-53-405 Owner: Ted Kelley Driller: Anchor Water Well		
Shale, sandy shale and sand streaks	30	395	Clay	10	10
Sand	10	405	Sand, fine	25	35
Shale and sandy shale	30	435	Clay	153	188
Sand	10	445	Sand, medium	22	210
Shale and sandy shale	112	557			
Sand	7	564	Well BH-65-53-511 Owner: City of Angleton, Well No. 10 Driller: Lanford Drilling Co., Inc.		
Shale	3	567	Topsoil	14	14
Sand	73	640	Sand	41	55
Shale	3	643	Clay	32	87
Sand	5	648	Sand	77	164
			Clay	45	209

Table 2.--Drillers' logs of wells in Brazoria County--Continued

	Thickness (feet)	Depth (feet)		Thickness (feet)	Depth (feet)
Well BH-65-53-511--Continued			Well BH-65-58-304--Continued		
Sand	44	253	Clay, red	20	100
Clay	27	280	Sand	50	150
Sand and sandy shale	10	290			
Shale and sandy shale	329	619	Well BH-65-58-622		
Sand, fine and sandy shale	61	680	Owner: Phillips Petroleum Co., Well No. 11-A		
Shale	60	740	Driller: Finch Water Well Service		
Sand, fine	12	752	Topsoil	5	5
Shale and sandy shale streaks	49	801	Sand, fine	5	10
Sand	22	823	Clay, red	10	20
Shale	27	850	Sand, coarse	10	30
Sand	29	879	Clay, red	10	40
Shale	11	890	Sand, coarse	20	60
Shale, sandy	11	901	Sand, coarse	6	66
Shale	15	916	Clay, red	1	67
			Sand, coarse	5	72
			Clay, red	8	80
			Clay, white	20	100
Well BH-65-53-512			Sand, red	15	115
Owner: A.B. Haynes			Sand, coarse, red	10	125
Driller: Prazak Water Well Service			Sand, coarse, gray	10	135
Topsoil	5	5	Sand, coarse, gray	10	145
Clay, red	105	110	Sand, coarse, gray	10	155
Sand, fine	13	123	Sand, coarse, red	10	165
Clay, red	17	140	Clay, red	5	170
Sand, fine	5	145			
Clay, gray	40	185			
Sand, coarse	55	240			
			Well BH-65-59-430		
			Owner: Phillips Petroleum Co., Well No. 14		
			Driller: Layne-Texas Co.		
			Topsoil	1	1
Clay, red	25	25	Clay, sandy	4	5
Sand	5	30	Clay and sand streaks	10	15
Clay, blue	25	55	Sand streaks and gravel	10	25
Clay, red	15	70	Clay	3	28
Sand	10	80	Sand, shell and sandy clay	30	58
			Clay	8	66

Table 2.--Drillers' logs of wells in Brazoria County--Continued

	Thickness (feet)	Depth (feet)		Thickness (feet)	Depth (feet)
Well BH-65-59-430--Continued			Well BH-65-61-511		
Sand, gravel and clay	17	83	Clay	5	245
Clay and sandy clay	22	105	Sand	7	252
Clay, sandy and sand streaks	13	118	Clay	9	261
Sand, gravel streaks and sandy clay	48	166	Sand	26	287
Clay	10	176	Clay	2	289
			Sand	24	313
Well BH-65-60-403			Clay	2	315
Owner: Brazoria Independent School District			Sand	15	330
Driller: O'Day Drilling Co.			Clay	8	338
Topsoil	3	3	Sand, shaley	10	348
Clay	80	83	Shale	4	352
Sand	39	122			
Clay	43	165			
Sand	55	220	Well BH-65-61-512		
Clay	127	347	Owner: City of Lake Jackson, Well No. 12		
			Driller: Layne-Western Co., Inc.		
Sand	16	363	Clay, surface	10	10
Clay	31	394	Sand and gravel	10	20
Sand	7	401	Clay	4	24
Clay	50	451	Sand and gravel	25	59
Sand	12	463	Clay	47	106
Clay	12	475	Sand	35	142
Sand	11	486	Clay	23	165
Clay	15	501	Sand	23	188
			Clay	3	191
Well BH-65-61-511			Sand	5	196
Owner: City of Lake Jackson, Well No. 14			Clay	9	205
Driller: Layne-Western Co., Inc.			Sand	34	239
Clay	22	22	Clay	14	253
Sand	8	30	Sand	6	259
Clay	74	104	Clay	11	270
Sand	32	136	Sand	9	279
Clay	28	164	Clay	3	282
Sand and gravel	35	199	Sand	58	340
Clay	8	207	Clay	10	350
Sand and gravel	36	240			

Table 2.--Drillers' logs of wells in Brazoria County--Continued

	Thickness (feet)	Depth (feet)		Thickness (feet)	Depth (feet)
Well BH-65-61-707 Owner: Texas Department of Corrections, Clemmons Unit, Well No. 3 Driller: Layne-Texas Co.			Well BH-65-61-917--Continued		
Topsoil	3	3	Sand	54	64
Clay, red	114	117	Clay and sand	16	80
Shale and sand streaks	29	146	Clay, sandy and sticky clay	45	125
Shale	28	174	Clay, sandy and sand streaks	35	160
Sand	24	198	Clay	50	210
Shale	20	218	Sand	34	244
Sand and shale streaks	12	230	Shale	54	298
Shale, sticky	42	272	Sand	23	321
Shale	12	284	Shale	34	355
Sand	31	315	Well BH-65-61-918 Owner: City of Clute, City Park No. 2 Driller: B.J. Swinehart Co., Inc.		
Shale	2	317	Topsoil and red clay	23	23
Sand, broken	27	344	Sand, surface	15	38
Shale, sandy and sand	5	349	Clay, red and blue	137	175
Sand and shale streaks	11	360	Sand, coarse	10	185
Well BH-65-61-916 Owner: City of Clute, Well No. 7 Driller: B.J. Swinehart Co., Inc.			Clay	23	208
Clay	16	16	Sand, coarse	21	229
Sand	22	38	Clay	10	239
Clay	27	65	Sand, medium	10	249
Sand	10	75	Clay	3	252
Clay, sandy	102	177	Well BH-65-64-403 Owner: Treasure Island Municipal Utility District Driller: Birdwell Water Well Service		
Sand	58	235	Sand	12	12
Clay	5	240	Shell, small clam	33	45
Sand	13	253	Clay	9	54
Clay	4	257	Shell, oyster	11	65
Well BH-65-61-917 Owner: City of Richwood, Well No. 2 Driller: Layne-Texas Co.			Clay	29	94
Clay and sandy clay	5	5	Sand	10	104
Clay, sandy and sand streaks	5	10	Clay	19	123
			Sand and shell	17	140
			Clay	7	147

Table 2.--Drillers' logs of wells in Brazoria County--Continued

	Thickness (feet)	Depth (feet)		Thickness (feet)	Depth (feet)
Well BH-65-64-403--Continued			Well BH-81-06-111--Continued		
Sand	37	184	Sand, coarse	14	197
Clay	16	200	Clay	3	200
Sand and clay streaks	6	206			
Sand	4	210	Well BH-81-06-112 Owner: Dow Chemical Co., Oyster Creek, Well No. 27 Driller: B.J. Swinehart Co., Inc.		
Clay	14	224	Fill	6	6
Sand	8	232	Clay	4	10
Sand and clay	12	244	Sand	10	20
Sand	25	269	Clay	113	133
Clay	17	286	Sand, fine	20	153
Sand	6	292	Clay	77	230
Clay	27	319	Sand and gravel	7	237
Sand	3	322	Clay	3	240
Clay	18	340			
Sand and clay	13	353	Well BH-81-06-113 Owner: Dow Chemical Co., Oyster Creek, Well No. 28 Driller: B.J. Swinehart Co., Inc.		
Clay	54	407	Topsoil, fill	12	12
Sand	5	412	Clay	91	103
Clay	32	444	Sand	12	115
Sand	15	459	Clay, sandy	15	130
Clay	55	514	Sand	15	145
Sand and broken clay	28	542	Clay	55	200
Clay	20	562	Sand	10	210
			Clay	35	245
Well BH-81-06-111 Owner: Dow Chemical Co., Oyster Creek, Well No. 26 Driller: B.J. Swinehart Co., Inc.					
Topsoil and blue clay	15	15	Well BH-81-06-114 Owner: City of Freeport, Well No. 13 Driller: Layne-Texas Co.		
Sand, surface	10	25	Clay	44	44
Clay, red and blue	25	50	Sand	28	72
Sand, fine silty	10	60	Clay, sandy	21	93
Clay, blue	50	110	Sand	22	115
Clay, soft	18	128	Shale	7	122
Sand, silty, clayey	18	146	Sand	83	205
Clay, sandy	37	183			

Table 2.--Drillers' logs of wells in Brazoria County--Continued

	Thickness (feet)	Depth (feet)		Thickness (feet)	Depth (feet)
Well BH-81-06-114--Continued			Well BH-81-06-212--Continued		
Shale, sandy	50	255	Sand, broken	11	365
Sand	38	293	Clay	43	408
Shale	11	304			
Well BH-81-06-115			Well BH-81-06-213		
Owner: Dow Chemical Co., Oyster Creek, Well No. 29			Owner: City of Oyster Creek, Well No. 2		
Driller: B.J. Swinehart Co., Inc.			Driller: B.J. Swinehart Co., Inc.		
Topsoil and blue clay	15	15	Clay, surface	8	8
Sand	10	25	Clay, sandy	27	35
Clay, red and blue	25	50	Clay	167	202
Sand, fine, silty	10	60	Sand	22	224
Clay, blue	50	110	Clay	2	226
Clay, soft	18	128	Sand	8	234
Sand, clayey, silty	18	146	Clay	10	244
Clay, sandy	37	183	Sand	11	255
Sand, coarse	14	197	Clay	3	258
Clay	3	200			
Well BH-81-06-212			Well BH-81-06-523		
Owner: City of Oyster Creek, Well No. 1			Owner: Canal Service Co.		
Driller: B.J. Swinehart Co., Inc.			Driller: Finch Water Well Service		
Clay, surface	7	7	Clay, red	60	60
Sand, surface	43	50	Sand	10	70
Clay	12	62	Clay, red	60	130
Sand	18	80	Sand	25	155
Clay	48	128	Clay, blue	55	210
Sand	12	140	Sand	20	230
Clay	69	209	Clay, blue	180	410
Sand	30	239	Sand	5	415
Clay	34	273	Clay, blue	125	540
Sand, broken	8	281	Sand, clay	15	555
Clay	38	319	Clay, blue	35	590
Sand, fine	5	324	Sand	35	625
Clay	5	329			
Sand, fine silty	25	354			

Table 3.--Water levels in wells in Brazoria County

(feet below land surface)

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
WELL BH-65-30-601 OWNER: C.H. ALEXANDER SCREEN: 350-1,300 FEET ELEVATION: 51 FEET		WELL BH-65-45-501 OWNER: N.E. SELSTAD SCREEN: 242-1,164 FEET ELEVATION: 41 FEET		WELL BH-65-47-401 OWNER: PHILLIPS PETROLEUM CO. DEPTH: 400 FEET ELEVATION: 23 FEET	
02/14/1980	179.85	03/14/1980	88.88	03/11/1980	80.17
07/07/1980	184.71	01/29/1981	91.29	08/25/1980	82.14
09/23/1980	188.44	02/23/1982	91.05	01/29/1981	80.67
02/11/1981	187.64	08/13/1982	90.64	08/13/1981	83.30
06/15/1981	197.55	03/09/1983	86.87	02/19/1982	83.56
09/23/1981	201.06	08/11/1983	92.36	08/10/1982	81.46
01/25/1982	198.07	02/21/1984	89.25	01/31/1983	84.99
09/17/1982	201.40			08/10/1983	83.05
01/14/1983	198.13			02/14/1984	79.13
01/26/1984	197.43				
WELL BH-65-30-902 OWNER: AMOCO CO. DEPTH: 591 FEET ELEVATION: 45 FEET		WELL BH-65-46-301 OWNER: EXXON CO. SCREEN: 441-473 FEET ELEVATION: 30 FEET		WELL BH-65-50-504 OWNER: EXXON CO. SCREEN: 438-473 FEET ELEVATION: 54 FEET	
03/11/1980	189.27	03/12/1980	67.90	03/14/1980	39.25
01/29/1981	176.38	01/29/1981	68.87	08/27/1980	41.66
02/11/1982	193.64	08/13/1981	70.27	01/28/1981	39.43
08/12/1982	192.14	02/19/1982	72.01	08/17/1981	41.89
01/31/1983	196.06	08/10/1982	71.47	02/23/1982	41.52
08/09/1983	193.66	01/31/1983	70.20	08/11/1982	40.69
01/30/1984	194.87	08/10/1983	68.96	03/09/1983	43.67
		02/14/1984	68.05	08/12/1983	44.51
WELL BH-65-38-201 OWNER: J.W. McCABE SCREEN: 440-480 FEET ELEVATION: 56 FEET		WELL BH-65-46-610 OWNER: KELSO BUILDING MATERIALS CO. DEPTH: 350 FEET ELEVATION: 15 FEET		WELL BH-65-50-505 OWNER: EXXON CO. SCREEN: 379-399 FEET ELEVATION: 53 FEET	
03/11/1980	108.37	03/12/1980	70.68	03/14/1980	43.10
01/29/1981	109.47	08/25/1980	71.47	08/27/1980	45.60
02/11/1982	121.50	01/29/1981	71.26	01/28/1981	43.26
08/12/1982	124.03	08/13/1981	73.15	08/17/1981	45.87
01/31/1983	122.45	02/19/1982	74.66	02/23/1982	45.41
08/09/1983	122.16	08/10/1982	72.07	08/11/1982	41.78
01/30/1984	120.96	08/10/1983	71.63	03/09/1983	43.86
WELL BH-65-45-102 OWNER: OTTO SENIOR CLUB SCREEN: 297-916 FEET ELEVATION: 50 FEET		WELL BH-65-46-702 OWNER: EXXON CO. SCREEN: 491-514 FEET ELEVATION: 26 FEET		WELL BH-65-50-802 OWNER: EXXON CO. DEPTH: 500 FEET ELEVATION: 51 FEET	
03/14/1980	81.90	03/12/1980	43.03	03/14/1980	40.71
01/29/1981	81.65	01/29/1981	42.71	08/26/1980	40.92
02/23/1982	82.02	08/13/1981	44.52	01/28/1981	40.90
08/13/1982	81.67	02/19/1982	46.22	08/17/1981	41.15
03/09/1983	89.38	08/10/1982	43.33	02/23/1982	42.57
08/15/1983	86.46	01/31/1983	43.70		
02/21/1984	85.70	08/10/1983	41.16		
		02/14/1984	39.82		

Table 3.--Water levels in wells in Brazoria County--Continued

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
WELL BH-65-51-901 OWNER: CITY OF WEST COLUMBIA, WELL NO.1 SCREEN: 540-650 FEET ELEVATION: 34 FEET		WELL BH-65-59-406 OWNER: PHILLIPS PETROLEUM CO. SCREEN: 137-177 FEET ELEVATION: 36 FEET		WELL BH-65-59-803 OWNER: CITY OF SWEENEY, WELL NO.1 SCREEN: 150-185 FEET ELEVATION: 34 FEET	
03/14/1980	61.51	03/13/1980	28.22	03/13/1980	49.19
01/29/1981	60.81	01/28/1981	29.05	01/28/1981	50.13
02/23/1982	62.05	02/22/1982	30.95	02/22/1982	52.88
03/08/1983	65.85	08/11/1982	30.56	08/26/1982	52.71
08/15/1983	73.30	03/09/1983	32.24	03/09/1983	54.19
02/21/1984	66.31	08/15/1983	27.31	08/12/1983	52.21
		02/15/1984	25.45	02/15/1984	51.75
WELL BH-65-53-504 OWNER: EXXON CO. SCREEN: 785-807 FEET ELEVATION: 33 FEET		WELL BH-65-59-413 OWNER: PHILLIPS PETROLEUM CO., WELL NO.6-B SCREEN: 104-150 FEET ELEVATION: 36 FEET		WELL BH-65-61-402 OWNER: DOW CHEMICAL CO., WELL NO.TW-11 SCREEN: 172-182 FEET ELEVATION: 20 FEET	
03/14/1980	97.93	03/13/1980	26.17	01/01/1980	36.00
08/27/1980	98.82	08/26/1980	27.41	02/01/1980	35.80
01/29/1981	97.89	01/28/1981	26.90	03/01/1980	35.20
08/17/1981	99.01	08/17/1981	27.23	04/01/1980	35.00
02/23/1982	99.43	02/22/1982	27.73	05/01/1980	35.00
08/13/1982	98.77	08/11/1982	27.55	06/01/1980	36.10
03/08/1983	101.06	03/09/1983	28.31	07/01/1980	38.30
08/15/1983	98.30	08/15/1983	25.42	08/01/1980	39.30
02/21/1984	96.03	02/15/1984	24.19	10/01/1980	39.10
WELL BH-65-54-403 OWNER: TIGNER BROTHERS SCREEN: 173-322 FEET ELEVATION: 15 FEET		WELL BH-65-59-414 OWNER: PHILLIPS PETROLEUM CO., WELL 6-A DEPTH: 167 FEET ELEVATION: 36 FEET		11/01/1980	38.80
03/12/1980	7.71	03/13/1980	19.37	12/01/1980	38.40
01/29/1981	8.05	08/26/1980	21.01	01/01/1981	38.10
08/14/1981	7.22	01/28/1981	20.88	02/01/1981	38.00
02/19/1982	9.01	08/17/1981	21.93	03/01/1981	37.50
08/10/1982	8.88	02/22/1982	24.66	04/01/1981	38.00
03/10/1983	9.70	08/11/1982	22.49	05/01/1981	38.30
08/10/1983	7.88	03/09/1983	24.25	06/01/1981	38.30
02/14/1984	7.56	08/15/1983	14.60	07/01/1981	38.00
WELL BH-65-54-407 OWNER: J.M. SKRABANEK SCREEN: 499-870 FEET ELEVATION: 14 FEET		02/15/1984	13.43	08/01/1981	38.30
03/12/1980	68.95	WELL BH-65-59-501 OWNER: AMOCO CO. DEPTH: 150 FEET ELEVATION: 23 FEET		09/01/1981	38.00
08/25/1980	70.17	03/13/1980	6.41	10/01/1981	37.40
01/29/1981	69.19	08/26/1980	7.60	11/01/1981	37.00
08/14/1981	73.35	01/28/1981	6.53	12/01/1981	36.30
02/19/1982	73.90	08/17/1981	7.01	01/01/1982	35.30
08/10/1982	74.17	02/22/1982	7.52	02/01/1982	34.50
03/10/1983	76.12	08/12/1983	9.27	03/01/1982	33.50
08/10/1983	66.95	02/15/1984	8.64	04/01/1982	33.30
02/14/1984	65.43			06/01/1982	33.00
				09/01/1982	36.00
				WELL BH-65-61-801 OWNER: CITY OF LAKE JACKSON, WELL NO.5 SCREEN: 290-320 FEET ELEVATION: 12 FEET	
				05/01/1981	113.00

Table 3.--Water levels in wells in Brazoria County--Continued

[illegible]

Table 3.--Water levels in wells in Brazoria County--Continued

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
WELL BH-81-05-602--Cont.		WELL BH-81-06-407--Cont.		WELL BH-81-06-413--Cont.	
06/01/1980	110.30	10/01/1980	110.30	06/01/1981	108.30
07/01/1980	116.20	11/01/1980	110.80	08/01/1981	106.50
08/01/1980	121.50	12/01/1980	108.10	11/01/1981	98.50
09/01/1980	125.40	01/01/1981	95.40	12/01/1981	100.50
10/01/1980	125.00	02/01/1981	93.30	01/01/1982	96.50
11/01/1980	124.60	03/01/1981	91.80	02/01/1982	86.50
12/01/1980	119.70	04/01/1981	94.40	03/01/1982	100.50
01/01/1981	106.00	05/01/1981	90.60	04/01/1982	86.90
02/01/1981	103.50	06/01/1981	104.30	05/01/1982	99.50
03/01/1981	108.70	07/01/1981	107.30	06/01/1982	104.50
04/01/1981	105.50	08/01/1981	108.50	07/01/1982	108.50
05/01/1981	104.60	09/01/1981	106.40	08/01/1982	112.50
06/01/1981	120.10	10/01/1981	103.70	09/01/1982	109.50
07/01/1981	126.70	11/01/1981	102.30	10/01/1982	94.50
08/01/1981	126.90	12/01/1981	98.90	11/01/1982	94.50
09/01/1981	124.10	01/01/1982	107.30		
10/01/1981	121.90	02/01/1982	98.80		
11/01/1981	119.70	03/01/1982	97.00		
12/01/1981	110.20	04/01/1982	96.10		
01/01/1982	122.50	06/01/1982	105.40		
02/01/1982	116.50	09/01/1982	106.30		
03/01/1982	112.00				
04/01/1982	111.30				
06/01/1982	120.20				
09/01/1982	122.80				
12/01/1982	85.10				
WELL BH-81-06-405 OWNER: CITY OF FREEPORT, WELL NO. 8 SCREEN: 205-245 FEET ELEVATION: 5 FEET		WELL BH-81-06-408 OWNER: DOW CHEMICAL CO., WELL NO. TW-76 SCREEN: 196-219 FEET ELEVATION: 7 FEET		WELL BH-81-06-506 OWNER: DOW CHEMICAL CO. SCREEN: 198-244 FEET ELEVATION: 8 FEET	
08/11/1983	80.62	03/13/1980	107.58	01/01/1980	87.50
02/14/1984	78.86	08/25/1980	108.13	02/01/1980	89.50
		01/27/1981	108.02	03/01/1980	93.50
		08/14/1981	109.81	04/01/1980	96.50
		02/19/1982	111.13	05/01/1980	103.50
		08/26/1982	109.74	06/01/1980	103.50
		03/10/1983	112.16	07/01/1980	108.50
		08/11/1983	81.52	08/01/1980	109.50
		02/15/1984	80.91	09/01/1980	115.50
				10/01/1980	104.50
				11/01/1980	117.50
				12/01/1980	99.50
				01/01/1981	96.50
				02/01/1981	96.50
				03/01/1981	96.50
				04/01/1981	94.50
				05/01/1981	72.50
				06/01/1981	92.50
				08/01/1981	96.50
				11/01/1981	102.50
				12/01/1981	101.50
				01/01/1982	88.50
				02/01/1982	87.50
				03/01/1982	91.00
				04/01/1982	96.50
				05/01/1982	101.50
				06/01/1982	105.50
				07/01/1982	97.00
				08/01/1982	115.50
				09/01/1982	94.50
				10/01/1982	92.50
				11/01/1982	82.50
WELL BH-81-06-406 OWNER: CITY OF FREEPORT, WELL NO. 6 SCREEN: 214-234 FEET ELEVATION: 5 FEET		WELL BH-81-06-413 OWNER: DOW CHEMICAL CO., WELL NO. TW-3 SCREEN: 218-248 FEET ELEVATION: 5 FEET			
08/11/1983	84.14	01/01/1980	91.50		
02/14/1984	83.16	02/01/1980	98.50		
		03/01/1980	94.50		
		04/01/1980	96.50		
		05/01/1980	105.50		
		06/01/1980	105.50		
		07/01/1980	105.50		
		08/01/1980	105.50		
		09/01/1980	95.50		
		10/01/1980	108.50		
		11/01/1980	115.00		
		12/01/1980	104.00		
		01/01/1981	101.50		
		02/01/1981	101.50		
		03/01/1981	94.50		
		04/01/1981	91.50		
		05/01/1981	92.50		
WELL BH-81-06-407 OWNER: DOW CHEMICAL CO., WELL NO. TW-6 SCREEN: 214-242 FEET ELEVATION: 2 FEET					
01/01/1980	96.50				
02/01/1980	98.80				
03/01/1980	95.90				
04/01/1980	95.00				
05/01/1980	95.50				
06/01/1980	96.10				
07/01/1980	101.50				
08/01/1980	108.40				
09/01/1980	109.00				

Table 4.--Chemical analyses of water from wells in Brazoria County

Water-bearing unit: CHCT, Chicot aquifer; EVGL, Evangeline aquifer
 [mg/L, milligram per liter; µg/L, microgram per liter; micromhos, micromhos per centimeter at 25 degrees Celsius; deg C, degrees Celsius]

WELL	OWNER	DEPTH OR PRODUCING INTERVAL (feet)	WATER-BEARING UNIT	DATE OF SAMPLE	SILICA, DIS-SOLVED (mg/L as SiO ₂)	IRON, DIS-SOLVED (µg/L as Fe)	MANGANESE, DIS-SOLVED (µg/L as Mn)	CALCIUM, DIS-SOLVED (mg/L as Ca)	MAGNESIUM, DIS-SOLVED (mg/L as Mg)	SODIUM, DIS-SOLVED (mg/L as Na)	BICARBONATE, (mg/L as HCO ₃)	CARBONATE, (mg/L as CO ₃)	SULFATE, DIS-SOLVED (mg/L as SO ₄)	CHLORIDE, DIS-SOLVED (mg/L as Cl)	FLUORIDE, DIS-SOLVED (mg/L as F)	DISSOLVED SOLIDS, SUM OF CONSTITUENTS (mg/L)	HARDNESS, as CaCO ₃ (mg/L)	SPECIFIC CONDUCTANCE (micro-mhos)	PH and alkalinity (deg C)	TEMPERATURE (deg C)
1/ BH-65-30-604	CITY OF PEARLAND, WELL NO. 7	540 - 830	CHCT	82-08-18	15	110 4/	<50 5/	22	5	121	320	0	0	55	.90 6/	480	75	640	7.9	--
1/ BH-65-30-615	CITY OF PEARLAND, WELL NO. 6	496 - 606	CHCT	81-06-23	16	110 4/	60 5/	21	4	126	330	0	0	49	1.0 6/	490	69	650	7.9	--
BH-65-37-702	TEXAS DEPARTMENT OF CORRECTIONS, DARRINGTON UNIT	1331 - 1371	EVGL	82-08-12	--	--	--	--	--	--	--	--	--	--	--	--	--	1360	8.0	26.5
BH-65-38-602	CITY OF ALVIN, WELL NO. 4	733	CHCT	82-08-12	--	--	--	--	--	--	--	--	--	--	--	--	--	1170	8.3	26.5
BH-65-39-402	CITY OF ALVIN, WELL NO. 2	608 - 719	CHCT	82-08-12	--	--	--	--	--	--	--	--	--	--	--	--	--	1370	8.5	26.0
1/ BH-65-51-605	VARNER CREEK, M.U.D., WELL NO. 2	575 - 640	CHCT	82-01-15	13	300 4/	60 5/	44	11	219	270	0	0	289	.50 6/	800	160	1380	7.7	--
BH-65-51-901	CITY OF WEST COLUMBIA, WELL NO. 1	540 - 650	CHCT	82-08-26	--	50	--	--	--	--	--	--	--	--	--	--	--	1880	7.8	26.5
2/ BH-65-53-511	CITY OF ANGLETON, WELL NO. 10	800 - 878	CHCT	82-05-17	--	--	0	12	3	248	350	0	4	210	1.2	--	42	1200	7.9	--
1/ BH-65-59-430	PHILLIPS PETROLEUM CO., WELL NO. 14	126 - 166	CHCT	80-04-29	22	220 4/	180 5/	100	30	51	520	0	0	44	.40 6/	670	370	896	6.9	21.7
3/ BH-65-61-511	CITY OF LAKE JACKSON, WELL NO. 14	270 - 328	CHCT	80-12-15	17	190	<50	29	14	221	460	0	14	117	.60	790	130	--	7.4	--
3/ BH-65-61-512	CITY OF LAKE JACKSON, WELL NO. 12	284 - 338	CHCT	81-01-27	14	200	<50	33	16	146	460	0	2	108	.90	700	150	--	7.3	--
1/ BH-65-61-917	CITY OF RICHWOOD, WELL NO. 2	180 - 320	CHCT	81-04-22	14	210 4/	<50 5/	34	19	242	630	0	2	122	.60 6/	950	160	1320	7.7	--
1/ BH-81-06-114	CITY OF FREEPORT, WELL NO. 13	160 - 274	CHCT	82-09-01	15	300 4/	<50 5/	31	13	212	530	0	14	100	.60 6/	820	130	1100	7.7	--

1/ Analyzed by Edna Wood Laboratories, Inc. 3/ Analyzed by Orlando Laboratories, Inc. 5/ Total manganese (Mn).
 2/ Analyzed by Pope Testing Laboratories. 4/ Total iron (Fe). 6/ Total fluoride (F).

Table 5.--Records of wells in Fort Bend County

Water level and drawdown:
 Use of water : H, domestic; I, irrigation; N, industrial; P, public supply; U, unused.
 Water-bearing unit : CHCT, Chicot aquifer; EVGL, Evangeline aquifer.
 Type of data available : D, drillers' log (see table 6); E, electric log; I, induction log;
 Q, chemical analysis (see table 8; W, water-level measurements (see table 7).

WELL	OWNER	DRILLER	DATE COMPLETED	DEPTH OF WELL (feet)	DIAMETER OF WELL (inches)	SCREEN LENGTH (feet)	DEPTH INTERVAL (feet)	WATER-BEARING UNIT	ALTITUDE OF LAND SURFACE (feet)	WATER LEVEL		USE OF WATER	DISCHARGE (gallons per minute)	DRAWDOWN (feet)	TYPE OF DATA AVAILABLE
										BELOW LAND SURFACE DATUM (feet)	DATE OF MEASUREMENT				
JY-65-10-809	CITY OF KATY, WELL NO. 5	LAYNE-WESTERN CO., INC.	1981	644	16,10	-	444 - 634	CHCT, EVGL	129	167	07/ /1981	P	1001	304	D, W
JY-65-17-607	BURKE, DENNIS	G.S. RHEMANN WATER WELL SERVICE, INC.	1981	280	6,4	20	260 - 280	CHCT	105	39	02/10/1981	H	160	--	D
JY-65-18-609	FT. BEND COUNTY M.U.D. 34	LAYNE-WESTERN CO., INC.	1983	1105	20,14	-	658 - 1090	EVGL	112	189	10/ /1983	P	1500	81	D, Q
JY-65-18-705	VICKERS, BART	G.S. RHEMANN WATER WELL SERVICE, INC.	1981	180	6,4	20	160 - 180	CHCT	95	--	--	H	170	--	D
JY-65-19-406	CASTONE BRICK	RAYMOND WATER WELLS	1983	247	5,2	15	232 - 247	CHCT	95	105	02/03/1983	N	335	15	D
JY-65-19-510	CHELSEAFORD CITY M.U.D., WELL NO. 2	LAYNE-TEXAS CO.	1981	815	16,10	185	530 - 800	CHCT, EVGL	91	151	10/19/1981	P	1230	80	D, E, Q
JY-65-19-511	DUNAWAY	ROBINSON WATER WELL SERVICE, INC.	1983	293	5,2	40	253 - 293	CHCT	95	111	06/03/1983	U	--	--	D
JY-65-19-512	DUNAWAY	ROBINSON WATER WELL SERVICE, INC.	1983	391	5,2	40	351 - 391	CHCT	95	160	06/03/1983	U	--	--	D
JY-65-19-603	KINGSBRIDGE M.U.D., WELL NO. 1	LAYNE-TEXAS CO.	1982	1505	20,14	375	610 - 1490	EVGL	91	260	02/15/1983	P	1520	67	D, E, Q
JY-65-19-604	TREE AND WOOD DISPOSAL	G.S. RHEMANN WATER WELL SERVICE, INC.	1983	240	6,4	20	220 - 240	CHCT	92	120	05/12/1983	N	110	--	D
JY-65-19-905	FT. BEND COUNTY M.U.D. 25, WELL NO. 2	WATER RESOURCES OF TEXAS	1980	924	16,10	268	562 - 914	CHCT, EVGL	83	168	11/05/1980	P	1000	33	D, Q
JY-65-20-809	TEXAS INSTRUMENTS, INC., WELL NO. 3	WATER RESOURCES OF TEXAS	1980	934	14,8	274	522 - 924	CHCT, EVGL	80	242	09/22/1980	P	1000	38	Q
JY-65-26-104	FRITO-LAY, INC.	CRITENDON DRUG SERVICE, INC.	1981	126	8	40	86 - 126	CHCT	112	60	06/18/1981	U	250	--	D

Table 5.--Records of wells in Fort Bend County--Continued

WELL	OWNER	DRILLER	DATE COMPLETED	DEPTH OF WELL (feet)	DIAMETER OF WELL (inches)	SCREEN		WATER-BEARING UNIT	ALTITUDE OF LAND SURFACE (feet)	WATER LEVEL		USE OF WATER	DISCHARGE (gallons per minute)	DRAWDOWN (feet)	TYPE OF DATA AVAILABLE
						LENGTH (feet)	DEPTH INTERVAL (feet)			BELOW LAND SURFACE DATUM (feet)	DATE OF MEASUREMENT				
JY-65-26-105	FRITO-LAY, INC.	CRITENDON DRLG SERVICE, INC.	1982	422	16,12	100	262 - 412	CHCT	112	68	07/28/1982	I	700	86	D
JY-65-26-407	FRITO-LAY, INC.	CRITENDON DRLG SERVICE, INC.	1981	350	12,8	55	250 - 340	CHCT	109	70	11/18/1981	N	700	57	D
JY-65-26-408	FRITO-LAY, INC.	CRITENDON DRLG SERVICE, INC.	1981	350	12,8	55	250 - 340	CHCT	109	70	10/30/1981	N	700	47	D
JY-65-27-108	PECAN GROVE M.U.D., WELL NO. 2	LAYNE-TEXAS CO.	1983	540	8,6	80	450 - 530	CHCT	83	126	05/16/1983	N	620	62	D,Q
JY-65-27-323	FT. BEND COUNTY M.U.D., 13, WELL NO. 3	LAYNE-TEXAS CO.	1982	1070	24,18	315	625 - 1055	EVGL	70	198	05/12/1982	P	2464	81	D,I,Q
JY-65-27-505	PLANTATION M.U.D., WELL NO. 2	LANDFORD DRLG CO., INC.	1980	840	16,10	198	582 - 830	CHCT, EVGL	80	150	10/14/1980	P	1000	67	D,E,Q
JY-65-28-104	FT. BEND COUNTY M.U.D., 12, WELL NO. 1	LAYNE-WESTERN CO., INC.	1976	1658	24,18,14	433	695 - 1658	CHCT, EVGL	68	185	09/09/1976	P	3000	107	--
JY-65-28-105	FT. BEND COUNTY M.U.D., 13, WELL NO. 2	LAYNE-TEXAS CO.	1982	1105	24,18	335	630 - 1090	CHCT, EVGL	68	203	07/01/1982	P	2464	92	D,E,Q
JY-65-28-106	LAND AND WATER AMENITIES	ROBINSON WATER WELL SERVICE, INC.	1982	501	5,2	60	441 - 501	CHCT	70	170	08/13/1982	P	--	--	D
JY-65-28-107	GREYSTONE	ROBINSON WATER WELL SERVICE, INC.	1983	536	5,3,2	20	516 - 536	CHCT	71	--	--	I	--	--	D
JY-65-28-209	FT. BEND COUNTY M.C.I.D. 2	ALSAY-PIPPIN CORP.	1980	1433	--	298	908 - 1428	EVGL	77	282	08/04/1980	P	2151	54	D
JY-65-28-313	FT. BEND COUNTY M.U.D. 26	LAYNE-WESTERN CO., INC.	1980	1190	16,10	--	800 - 1180	EVGL	80	274	06/30/1980	P	1230	38	D,W
JY-65-28-314	FT. BEND COUNTY M.U.D. 26	BUSSELL AND SON, INC.	1979	403	8,5	75	328 - 403	CHCT	80	34	11/07/1979	P	308	31	D
JY-65-28-315	BLUE RIDGE WEST M.U.D., WELL NO. 1	LAYNE-TEXAS CO.	1980	1155	16,10	200	770 - 1140	EVGL	75	260	02/04/1980	P	1248	298	Q
JY-65-28-317	WILLOWISP COUNTRY CLUB	BUSSELL AND SON, INC.	1981	509	6,4	35	412 - 509	CHCT	73	150	05/24/1981	P	190	47	D

Table 5.--Records of wells in Fort Bend County--Continued

WELL	OWNER	DRILLER	DATE COMPLETED	DEPTH OF WELL (feet)	DIAMETER OF WELL (inches)	SCREEN LENGTH (feet)	DEPTH INTERVAL (feet)	WATER-BEARING UNIT	ALTITUDE OF LAND SURFACE (feet)	WATER LEVEL			DISCHARGE (gallons per minute)	DRAWDOWN (feet)	TYPE OF DATA AVAILABLE
										BELOW LAND SURFACE DATUM (feet)	DATE OF MEASUREMENT	USE OF WATER			
JY-65-28-605	FT. BEND COUNTY M.U.D. 45	LAYNE-WESTERN CO., INC.	1983	1000	14,8	--	706 - 1000	EVGL	72	243	11/ /1983	P	725	30	D,Q
JY-65-28-902	WATERBROOK	ALMEDA WATER WELL SERVICE	1979	72	6	10	62 - 72	CHCT	60	4	08/21/1979	P	200	--	D
JY-65-28-903	SENIOR, BILL	ALMEDA WATER WELL SERVICE	1980	80	6	10	70 - 80	CHCT	56	8	09/05/1980	I	250	--	D
JY-65-29-518	WITCD CHEMICAL CORP.	ALMEDA WATER WELL SERVICE	1980	379	6,4	20	353 - 375	CHCT	65	155	08/05/1980	N	300	--	D
JY-65-33-110	KRAMER BROTHERS	LEONARD W. MICKELSON	1980	577	16	399	176 - 575	CHCT	106	40	11/ /1980	I	--	--	D
JY-65-42-501	JOHN M. MODRE, JR. ESTATE	LAYNE-WESTERN CO., INC.	1981	871	20,12	662	209 - 871	CHCT, EVGL	74	92	03/03/1981	I	330	25	D
JY-66-32-912	SULAK, TILFORD	RICHTER WATER WELL DRLG	1979	380	12	140	240 - 380	CHCT	111	--	--	I	--	--	D
JY-66-40-312	ROBERTS, DELLA	LEONARD W. MICKELSON	1980	527	14,12	344	182 - 526	CHCT	115	45	09/ /1980	I	--	--	D

Table 6.--Drillers' logs of wells in Fort Bend County

	Thickness (feet)	Depth (feet)		Thickness (feet)	Depth (feet)
Well JY-65-10-809 Owner: City of Katy, Well No. 5 Driller: Layne-Western Co., Inc.			Well JY-65-17-607 Owner: Dennis Burke Driller: George S. Rhemann Water Well Service, Inc.		
Topsoil	3	3	Gumbo, brown	6	6
Clay	15	18	Loam, tan	2	8
Sand, red	5	23	Gumbo, brown	62	70
Clay	3	26	Sand, silty	85	155
Sand	4	30	Clay, tan	35	190
Clay	47	77	Sand, fine	40	230
Sand	20	97	Clay, cream	25	255
Clay	23	120	Sand, coarse	25	280
Sand	50	170			
Clay	20	190	Well JY-65-18-609 Owner: Fort Bend County Municipal Utility District 34 Driller: Layne-Western Co., Inc.		
Sand	13	203	Clay and sand	40	40
Clay	10	213	Sand	31	71
Sand	63	276	Clay	29	100
Clay	3	279	Sand and rock	7	107
Sand	7	286	Clay	64	171
Clay	26	312	Sand	12	183
Sand	12	324	Clay	3	186
Clay	11	335	Sand and gravel	29	215
Rock and sand	90	425	Sand	225	440
Clay	5	430	Clay	183	623
Sand	27	457	Sand	22	645
Clay	18	465	Clay	31	676
Sand	11	476	Sand	6	682
Clay	19	495	Clay	7	689
Sand and clay	145	600	Sand	18	707
Clay	26	626	Clay	40	747
Sand	16	642	Sand	19	766
Clay	33	675	Clay	62	828
Sand	11	686	Sand	112	940
Clay	39	725	Clay	7	947

Table 6.--Drillers' logs of wells in Fort Bend County--Continued

	Thickness (feet)	Depth (feet)		Thickness (feet)	Depth (feet)
Well JY-65-18-609--Continued			Well JY-65-19-406 Owner: Castone Brick Driller: Raymond Water Wells		
Sand	6	953			
Clay	72	1025	Topsoil	2	2
Sand	17	1042	Clay, yellow	9	11
Clay	48	1090	Sand	14	25
Sand	60	1150	Clay, red and yellow	38	63
Clay	50	1200	Sand	29	92
Sand	90	1290	Clay, red and yellow	43	135
Clay	18	1308	Sand	18	153
Shale	37	1345	Clay, red	3	156
Sand	83	1428	Sand	16	172
Clay	72	1500	Clay, red and yellow	10	182
			Sand	65	247
Well JY-65-18-705 Owner: Bart Vickers Driller: George S. Rhemann Water Well Service, Inc.			Well JY-65-19-510 Owner: Chelford City Municipal Utility District, Well No. 2 Driller: Layne-Texas Co.		
Topsoil	3	3			
Sand, tan	12	15	Topsoil	5	5
Loam, tan	24	39	Sand	22	27
Sand	24	63	Clay	3	30
Rock	3	66	Sand	5	35
Clay, tan	28	94	Clay	10	45
Gravel	9	103	Clay, sandy	15	60
Rock	1	104	Sand and clay	8	68
Clay, reddish brown	16	120	Clay	9	77
Sand	21	141	Rock	2	79
Rock	1	142	Sand and clay	7	86
Clay, hard	8	150	Clay	8	94
Clay, rocky	6	156	Sand and clay	118	212
Sand, hard	4	160	Sand and shale	134	346
Sand, coarse	20	180	Sand	10	356
			Sand and shale	34	390
			Shale and sand	68	458
			Sand	42	500

Table 6.--Drillers' logs of wells in Fort Bend County--Continued

	Thickness (feet)	Depth (feet)		Thickness (feet)	Depth (feet)
Well JY-65-19-510--Continued			Well JY-65-19-512--Continued		
Shale	31	531	Clay	30	350
Sand	24	555	Sand	41	391
Shale	12	567			
Sand	10	577	Well JY-65-19-603 Owner: Kingsbridge Municipal Utility District, Well No. 1 Driller: Layne-Texas Co.		
Shale	67	644			
Sand	6	650	Gumbo	7	7
Sand and shale	56	706	Clay	19	26
Shale and sand streaks	5	711	Sand	9	35
Sand, shale and lime	35	746	Clay	55	90
Shale	12	758	Sand	32	122
Sand and lime streaks	7	765	Clay and sand streaks	24	146
Shale	9	774	Sand	39	185
Sand	11	785	Shale	17	202
Sand, shale and lime	84	869	Sand and shale	61	263
Sand	11	880	Rock	8	271
			Shale	15	286
Well JY-65-19-511 Owner: Dunaway Driller: Robinson Water Well Service, Inc.			Shale and sand streaks	10	296
Clay	15	15	Shale	60	356
Sand	21	36	Shale and sand streaks	25	381
Clay	127	163	Sand	14	395
Sand	37	200	Shale	26	421
Clay	40	240	Shale and sand streaks	18	439
Sand	53	293	Sand and shale streaks	30	469
			Shale	12	481
Well JY-65-19-512 Owner: Dunaway Driller: Robinson Water Well Service, Inc.			Shale, sandy and sand	49	530
Clay	12	12	Sand and shale streaks	211	741
Sand	62	74	Shale	39	780
Clay	59	133	Sand and shale	74	854
Sand	107	240	Shale	9	863
Clay	30	270	Sand and shale streaks	54	917
Sand	50	320	Shale and sand streaks	61	978
			Sand	4	982

Table 6.--Drillers' logs of wells in Fort Bend County--Continued

	Thickness (feet)	Depth (feet)		Thickness (feet)	Depth (feet)
Well JY-65-19-603--Continued			Well JY-65-19-905		
			Owner: Fort Bend County Municipal Utility District 25, Well No. 2		
			Driller: Water Resources of Texas		
Shale and sand streaks	62	1044	Unrecorded	562	562
Shale	100	1144	Sand	94	656
Shale and sand	9	1153	Shale	16	672
Sand and shale	31	1184	Sand	30	702
Shale and sand streaks	111	1295	Shale	42	744
Sand and shale	35	1330	Sand	44	788
Shale and sand streaks	40	1370	Shale	10	798
Sand and shale	60	1430	Sand	42	840
Shale	20	1450	Shale	16	856
Shale and sand	36	1486	Sand	58	914
Shale	214	1700	Shale	10	924
Well JY-65-19-604			Well JY-65-26-104		
Owner: Tree and Wood Disposal			Owner: Frito-Lay, Inc.		
Driller: George S. Rhemann Water Well Service, Inc.			Driller: Critendon Drilling Service, Inc.		
Gumbo	3	3	Topsoil	1	1
Clay, tan	25	28	Clay, black	7	8
Sand	7	35	Clay, brown and gray	17	25
Clay	5	40	Clay and lime	9	34
Clay, tan and blue	20	60	Sand and gravel	92	126
Sand	16	76	Clay	2	128
Clay, red	4	80	Clay, sandy and sand streaks	59	187
Clay, blue	10	90	Clay, blue and brown	18	205
Sand, rocky	10	100			
Sand	26	126			
Clay, blue	6	132			
Rock and clay	10	142	Well JY-65-26-105		
Sand	26	168	Owner: Frito-Lay, Inc.		
Clay, red and blue	29	197	Topsoil Driller: Critendon Drilling Service, Inc.		
Sand	43	240	Clay, brown	9	12
			Clay, brown-to-gray	19	31
			Sand and sandy breaks	29	60
			Sand and gravel	68	128
			Sand and clay	51	179

Table 6.--Drillers' logs of wells in Fort Bend County--Continued

	Thickness (feet)	Depth (feet)		Thickness (feet)	Depth (feet)
Well JY-65-26-105--Continued			Well JY-65-26-408--Continued		
Sand, coarse, white	7	186	Clay, yellowish gray	1	10
Clay, yellow and blue	34	220	Clay, brown	24	34
Sand and gravel	11	231	Sand, brown	103	137
Clay, blue and brown	28	259	Sand, coarse, gray	17	154
Sand, medium and coarse	70	329	Clay, brown and blue	19	173
Clay, brown and blue	19	348	Sand, brown, coarse	43	216
Sand, medium, white	17	365	Clay, brown and gray	33	249
Clay, blue and brown	17	382	Sand, medium and gravel	26	275
Sand and gravel	31	413	Clay, blue and brown	12	287
Clay, blue and brown	9	422	Sand streaks	3	290
			Clay, brown and gray with lime	19	309
			Sand and gravel	40	349
			Shale, brown and blue	1	350
Well JY-65-26-407 Owner: Frito-Lay, Inc. Driller: Critendon Drilling Service, Inc.			Well JY-65-27-108 Owner: Pecan Grove Municipal Utility District, Well No. 2 Driller: Layne-Texas Co.		
Sand	3	3	Clay	30	30
Clay, black-to-gray	6	9	Sand	15	45
Clay, yellowish gray	1	10	Clay	64	109
Clay, brown	24	34	Sand	32	141
Sand, brown	103	137	Clay	20	161
Sand, coarse, gray	17	154	Clay, sandy	6	167
Clay, brown and blue	19	173	Sand	6	173
Sand, brown, coarse	43	216	Clay	17	190
Clay, brown and gray	33	249	Sand	12	202
Sand and gravel	26	275	Clay	27	229
Clay, blue and brown	12	287	Sand	58	287
Sand streaks	3	290	Clay	7	294
Clay, brown and gray with lime	19	309	Sand	32	326
Sand and gravel	40	349	Clay	22	348
Shale, brown and blue	1	350	Sand	14	362
			Clay, sandy	8	370
Well JY-65-26-408 Owner: Frito-Lay, Inc. Driller: Critendon Drilling Service, Inc.					
Sand	3	3			
Clay, black-to-gray	6	9			

Table 6.--Drillers' logs of wells in Fort Bend County--Continued

	Thickness (feet)	Depth (feet)		Thickness (feet)	Depth (feet)
Well JY-65-27-108--Continued			Well JY-65-27-323--Continued		
Clay	34	404	Shale	23	310
Sand	3	407	Gravel, shale streaks and sand	6	316
Clay	16	423	Shale	26	342
Sand	20	443	Sand, shale streaks	11	353
Clay	7	450	Clay	9	362
Sand and fine gravel	64	514	Clay and sand streaks	45	407
Clay streaks, sandy	3	517	Sand, shale and gravel	13	420
Sand and fine gravel	20	537	Shale	15	435
Clay, sandy	4	541	Gravel and sand	32	467
Sand	11	552	Sand and gravel	11	478
			Shale	53	531
			Sand and shale	16	547
			Shale	101	648
Topsoil	3	3	Sand and shale streaks	13	661
Clay, fill	4	7	Shale and sand streaks	15	676
Clay	3	10	Sand and shale streaks	300	976
Sand and clay streaks	3	13	Shale	3	979
Sand	2	15	Sand and shale streaks	77	1056
Sand and clay streaks	5	20	Shale and sand streaks	14	1070
Clay	21	41	Shale	70	1140
Clay and sand streaks	40	81	Shale and sand streaks	50	1190
Sand and gravel	19	100	Sand and shale streaks	19	1209
Clay	15	115	Shale	17	1226
Sand and clay	36	151	Shale, sandy	13	1239
Clay and sandy streaks	4	155	Shale	34	1273
Sand	7	162	Sand	7	1280
Clay and sand streaks	7	169	Shale, sandy	5	1285
Sand	33	202	Sand and shale streaks	33	1318
Shale and sand streaks	17	219	Shale	40	1358
Sand	35	254	Sand and shale streaks	23	1381
Shale and sand streaks	23	277	Shale	21	1402
Sand and shale streaks	10	287	Sand and shale streaks	24	1426

Table 6.--Drillers' logs of wells in Fort Bend County--Continued

	Thickness (feet)	Depth (feet)		Thickness (feet)	Depth (feet)
Well JY-65-27-323--Continued			Well JY-65-28-105--Continued		
Shale, hard	14	1440	Clay	4	38
Shale	31	1471	Sand and gravel	41	79
Sand and shale streaks	29	1500	Clay	2	81
Shale	6	1506	Sand and gravel	25	106
			Sand and clay streaks	24	130
Well JY-65-27-505			Shale and sand streaks	17	147
Owner: Plantation Municipal Utility District,			Sand and shale streaks	4	151
Well No. 2			Shale and sand streaks	25	176
Driller: Lanford Drilling Co., Inc.			Sand	10	186
Sand	3	3	Shale	108	294
Clay	11	14	Sand and shale streaks	29	323
Sand	26	40	Shale and sand streaks	19	342
Shale, sandy	110	150	Shale	11	353
Sand	50	200	Sand and shale streaks	10	363
Shale	40	240	Shale	3	366
Sand	30	270	Sand and shale streaks	8	374
Shale	20	290	Shale	12	386
Sand	140	430	Shale and sand streaks	21	407
Shale	10	440	Sand	4	411
Sand	45	485	Shale	11	422
Shale	50	535	Sand, gravel and shale streaks	58	480
Sand	25	560	Shale	14	494
Shale	22	582	Sand, gravel and shale streaks	186	680
Sand	158	740	Shale	66	746
Shale	50	790	Sand, shale and gravel	30	776
Sand	40	830	Sand and shale streaks	31	807
Shale	10	840	Shale and sand streaks	41	848
Shale, sandy and shale	70	910	Clay, sandy	50	898
			Clay	41	939
Well JY-65-28-105			Sand and clay streaks	15	954
Owner: Fort Bend County Municipal			Sand and shale streaks	86	1040
Utility District 13, Well No. 2			Shale	9	1049
Driller: Layne-Texas Co.					
Topsoil	3	3			
Clay	6	9			
Clay and sand streaks	25	34			

Table 6.--Drillers' logs of wells in Fort Bend County--Continued

	Thickness (feet)	Depth (feet)		Thickness (feet)	Depth (feet)
Well JY-65-28-105--Continued			Well JY-65-28-107--Continued		
Sand and shale streaks	50	1099	Clay	133	380
Shale	78	1177	Sand	80	460
Shale and sand streaks	48	1225	Clay	20	480
Sand and shale streaks	42	1267	Sand	56	536
Shale	23	1290			
Sand and shale streaks	22	1312	Well JY-65-28-209 Owner: Fort Bend County Water Control and Improvement District 2 Driller: Alsay-Pippin Corp.		
Shale	13	1325			
Sand and shale streaks	24	1349	Clay, sandy, red	30	30
Shale	27	1376	Sand	33	63
Sand and shale streaks	19	1395	Clay, red	127	190
Shale and sand streaks	35	1430	Sand, tan	146	336
Sand and shale	63	1493	Shale, gray	16	352
Shale	7	1500	Sand, white and tan	23	375
			Shale, gray	85	460
Well JY-65-28-106 Owner: Land and Water Amenities Driller: Robinson Water Well Service, Inc.			Sand, tan	25	485
Clay	13	13	Shale, gray	70	555
Sand and gravel	87	100	Sand, tan	29	584
Clay	89	189	Shale, gray	14	598
Sand	41	230	Sand and shale breaks	174	772
Clay	41	271	Shale, gray	28	800
Sand	75	346	Sand, tan	64	864
Clay	54	400	Shale, gray	46	910
Sand	10	410	Sand and shale breaks	149	1059
Clay	20	430	Shale, gray	41	1100
Sand	71	501	Sand, tan	86	1186
			Shale, gray	20	1206
Well JY-65-28-107 Owner: Greystone Driller: Robinson Water Well Service, Inc.			Sand, tan	14	1220
Clay	12	12	Shale, gray	67	1287
Sand	72	84	Sand, tan	17	1304
Clay	94	178	Shale, gray	41	1345
Sand	69	247	Sand, tan	81	1426
			Shale, gray	138	1564

Table 6.--Drillers' logs of wells in Fort Bend County--Continued

	Thickness (feet)	Depth (feet)		Thickness (feet)	Depth (feet)
Well JY-65-28-209--Continued			Well JY-65-28-313--Continued		
Sand, tan	20	1584	Sand	58	368
Shale, gray	48	1632	Clay and sand streaks	17	385
Sand, tan	42	1674	Sand	43	428
Shale, gray	33	1707	Clay	7	435
			Clay and sand streaks	30	465
Well JY-65-28-313			Sand	33	498
Owner: Fort Bend County Municipal Utility District 26			Clay and sand	45	543
Driller: Layne-Western Co., Inc.			Sand	37	580
Unrecorded	35	35	Sand and clay streaks	11	591
Sand	5	40	Clay	14	605
Clay	3	43	Sand with clay streaks	25	630
Sand	12	55	Sand	11	641
Clay	8	63	Sand and clay streaks	12	653
Sand	20	83	Sand	16	669
Sand and clay streaks	19	102	Clay	4	673
Sand	20	122	Sand and clay streaks	18	691
Clay	9	131	Sand and hard streaks	9	700
Sand	18	149	Clay	15	715
Clay	3	152	Sand	2	717
Sand	18	170	Clay and sand streaks	6	723
Clay and sand streaks	5	175	Sand and hard streaks	6	729
Sand and clay streaks	7	182	Sand and clay streaks	17	746
Clay	2	184	Sand	7	753
Sand	3	187	Clay and sand with hard streaks	8	761
Clay and sand streaks	6	193	Clay	9	770
Sand	16	209	Sand	6	776
Sand and clay streaks	6	215	Clay	3	779
Sand	15	230	Sand	21	800
Clay	10	240	Clay	10	810
Sand and clay	9	249	Sand and clay streaks	40	850
Clay and sand	31	280	Clay	13	863
Sand	19	299	Sand	7	870
Clay	11	310			

Table 6.--Drillers' logs of wells in Fort Bend County--Continued

	Thickness (feet)	Depth (feet)		Thickness (feet)	Depth (feet)
Well JY-65-28-313--Continued			Well JY-65-28-317--Continued		
Clay	3	873	Clay	102	312
Sand	24	897	Sand	4	316
Clay and sand streaks	15	912	Clay	10	326
Sand and clay streaks	9	921	Sand	11	337
Sand	29	950	Clay	12	349
Clay	14	964	Sand	16	365
Sand	81	1045	Clay	20	385
Shale	6	1051	Sand	17	402
Sand	37	1088	Clay	8	410
Shale with sand streaks	31	1119	Sand	20	430
Sand	15	1134	Clay	50	480
Shale and limestone	10	1144	Sand	25	505
Shale and sand streaks	6	1150	Well JY-65-28-605		
Sand	22	1172	Owner: Fort Bend County Municipal Utility District 45		
Shale	8	1180	Driller: Layne-Western Co., Inc.		
Sand	53	1233	Clay	16	16
Shale with sand streaks	20	1253	Sand	10	26
Sand and shale	47	1300	Clay	4	30
Well JY-65-28-314			Sand	37	67
Owner: Fort Bend County Municipal Utility District 26			Clay	15	82
Driller: Bussell and Son, Inc.			Sand	94	176
Unconsolidated	320	320	Clay	14	190
Sand, production	83	403	Shale, sandy	20	210
Well JY-65-28-317			Sand	29	239
Owner: Willowisp Country Club			Shale	94	333
Driller: Bussell and Son, Inc.			Shale, sandy	20	353
Clay	25	25	Shale	47	400
Sand	19	44	Sand	47	447
Clay	18	62	Shale	46	493
Sand	5	67	Sand	5	498
Rock and sand	77	144	Shale	7	505
Clay	48	192	Sand	17	522
Sand	18	210	Shale	28	550

Table 6.--Drillers' logs of wells in Fort Bend County--Continued

	Thickness (feet)	Depth (feet)		Thickness (feet)	Depth (feet)
Well JY-65-28-605--Continued			Well JY-65-28-903--Continued		
Sand	10	560	Clay, white	9	53
Shale	27	587	Sand, white	5	58
Sand	5	592	Gravel	23	81
Shale, sandy	36	628	Clay	1	82
Sand	15	643			
Shale	52	700	Well JY-65-29-518 Owner: Witco Chemical Corp. Driller: Almeda Water Well Service		
Sand	19	719	Topsoil	2	2
Shale	3	722	Clay, white	10	12
Sand	10	732	Sand, red	9	21
Shale	19	751	Clay, red	9	30
Sand	85	836	Sand, red	4	34
Shale	7	843	Sand and gravel	46	80
Sand	19	862	Clay, yellow	67	147
Shale	2	864	Sand, tan	6	153
Sand	129	993	Clay, red	80	233
Shale	7	1000	Sand	6	239
			Clay, gray	39	278
Well JY-65-28-902 Owner: Waterbrook Driller: Almeda Water Well Service			Sand	8	286
Topsoil	3	3	Clay, red	63	349
Clay	3	6	Sand, white	16	365
Sand	24	30	Clay	2	367
Clay	3	33	Sand	8	375
Sand	39	72	Clay	4	379
Clay	18	90			
Sand and rock	1	91	Well JY-65-33-110 Owner: Kramer Brothers Driller: Leonard W. Mickelson		
Clay	14	105	Topsoil and clay	20	20
			Sand	41	61
Well JY-65-28-903 Owner: Bill Senior Driller: Almeda Water Well Service			Clay	11	72
Topsoil	3	3	Sand and gravel	83	155
Clay, red	3	6	Clay	16	171
Sand, red	38	44	Sand, rocky	37	208

Table 6.--Drillers' logs of wells in Fort Bend County--Continued

	Thickness (feet)	Depth (feet)		Thickness (feet)	Depth (feet)
Well JY-65-33-110--Continued			Well JY-65-42-501--Continued		
Clay	6	214	Sand	24	575
Sand	20	234	Clay	24	599
Clay	10	244	Sand	13	612
Sand, rocky	132	376	Clay	58	670
Clay	11	387	Sand	14	684
Sand, rocky	83	470	Clay	44	728
Clay	10	480	Sand	6	734
Sand, rocky	36	516	Clay	5	739
Clay	6	522	Sand	91	830
Sand, rocky	52	574	Clay	41	871
			Sand	8	879
Well JY-65-42-501 Owner: John M. Moore Jr., Estate Driller: Layne-Western Co., Inc.			Clay	4	883
Clay	1	1	Sand	3	886
Sand	23	24	Clay	37	923
Clay	12	36	Sand	3	926
Sand	33	69	Clay	13	939
Clay	5	74			
Sand and gravel	16	90	Well JY-66-32-912 Owner: Tilford Sulak Driller: Richter Water Well Drilling		
Clay	33	123	Topsoil	1	1
Sand and gravel	22	145	Clay, blue and white	4	5
Clay	19	164	Clay, pink	49	54
Sand and gravel	11	175	Sand and gravel	86	140
Shale	29	204	Clay, sand and gravel	40	180
Sand	43	247	Clay and sand	42	222
Shale	135	382	Clay	9	231
Sand	15	397	Rock	1	232
Clay	44	441	Clay, hard	13	245
Sand	3	444	Rock	43	288
Clay	36	480	Sand and clay	3	291
Sand	21	501	Rock and clay	7	298
Clay	50	551	Sand with rock streaks	2	300

Table 6.--Drillers' logs of wells in Fort Bend County--Continued

	Thickness (feet)	Depth (feet)
Well JY-66-32-912--Continued		
Clay	32	332
Sand	18	350
Rock and shale	30	380
Clay	9	389
Sand	8	397
Rock and shale	13	410
Sand	25	435
Shale	2	437

Well JY-66-40-312
Owner: Della Roberts
Driller: Leonard W. Mickelson

Topsoil	15	15
Sand	45	60
Clay	21	81
Sand and gravel	58	139
Clay	15	154
Sand	12	166
Clay	15	181
Sand	21	202
Clay	10	212
Sand, rocky	58	270
Clay	6	276
Sand	30	306
Clay	6	312
Sand	25	337
Clay	10	347
Sand, rocky	38	385
Clay	5	390
Sand, rocky	136	526

Table 7.--Water levels in wells in Fort Bend County

(feet below land surface)

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
WELL JY-65-09-906 OWNER: DON McMILLIAN SCREEN: 83-575 FEET ELEVATION: 149 FEET		WELL JY-65-17-201 OWNER: RICHARD WOODS, WELL NO.3 SCREEN: 100-335 FEET ELEVATION: 157 FEET		WELL JY-65-18-103 OWNER: C.C. CARDIFF SCREEN: 137-624 FEET ELEVATION: 139 FEET	
01/18/1980	113.93	01/18/1980	103.93	01/18/1980	95.51
12/15/1980	117.86	01/15/1981	105.54	12/15/1980	96.66
01/15/1981	115.97	10/30/1981	106.75	01/15/1981	96.51
10/30/1981	119.52	02/01/1982	105.04	10/29/1981	96.96
10/25/1982	120.66	11/10/1982	108.36	02/01/1982	93.24
		01/17/1983	108.10	11/10/1982	96.87
		09/22/1983	108.41	01/17/1983	94.05
		01/25/1984	108.53	01/25/1983	94.68
				09/22/1983	96.93
				02/02/1984	97.55
WELL JY-65-10-702 OWNER: DON McMILLIAN SCREEN: 176-346 FEET ELEVATION: 144 FEET		WELL JY-65-17-204 OWNER: RICHARD WOODS, WELL NO.2 DEPTH: 330 FEET ELEVATION: 157 FEET		WELL JY-65-18-202 OWNER: CINCO RANCH SCREEN: 100-534 FEET ELEVATION: 127 FEET	
01/18/1980	111.82	01/18/1980	106.66	01/08/1980	111.38
12/15/1980	114.04	12/15/1980	108.02	12/15/1980	112.59
01/15/1981	113.13	01/15/1981	107.90	01/25/1981	112.25
10/30/1981	114.42	10/30/1981	110.50	10/29/1981	113.61
02/01/1982	117.23	02/01/1982	109.31	02/01/1982	113.37
10/25/1982	118.78	11/10/1982	113.51	11/10/1982	115.26
01/17/1983	118.45	01/17/1983	113.13	01/17/1983	114.51
09/26/1983	119.16	09/22/1983	113.82	09/22/1983	115.70
01/19/1984	115.00	01/25/1984	120.17	01/25/1984	113.04
WELL JY-65-10-703 OWNER: P.V. COOK DEPTH: 170 FEET ELEVATION: 140 FEET		WELL JY-65-17-404 OWNER: SOUTHERN PACIFIC RAILROAD CO. DEPTH: 1,100 FEET ELEVATION: 114 FEET		WELL JY-65-18-602 OWNER: E.W. GLESS SCREEN: 120-520 FEET ELEVATION: 103 FEET	
01/18/1980	109.82	01/15/1980	73.33	01/18/1980	94.47
12/15/1980	110.17	08/06/1980	72.29	12/15/1980	95.20
01/15/1981	110.01	01/26/1981	72.71	01/15/1981	95.16
10/30/1981	110.15	08/11/1981	73.01	10/29/1981	95.43
02/01/1982	110.00	03/01/1982	72.52	02/01/1982	98.45
11/10/1982	111.26	07/19/1982	72.45	10/26/1982	100.10
01/17/1983	114.35	02/02/1983	73.92	01/17/1983	102.04
09/26/1983	114.84	08/10/1983	82.76	09/22/1983	103.17
01/19/1984	114.85	01/27/1984	72.26	01/25/1984	98.16
		08/02/1984	84.71		
WELL JY-65-10-809 OWNER: CITY OF KATY, WELL NO.5 SCREEN: 444-634 FEET ELEVATION: 129 FEET		WELL JY-65-18-101 OWNER: C.C. CARDIFF DEPTH: 818 FEET ELEVATION: 142 FEET		WELL JY-65-19-509 OWNER: FORT BEND COUNTY MUD 30 SCREEN: 635-868 FEET ELEVATION: 95 FEET	
07/01/1981	167.00	01/18/1980	112.91	02/02/1984	162.90
03/03/1983	148.08	12/15/1980	113.21		
03/18/1983	154.49	01/15/1981	113.02		
08/08/1983	169.02	10/29/1981	114.20		
11/03/1983	173.51	02/01/1982	112.93		
01/25/1984	153.09	11/10/1982	115.43		
02/23/1984	150.88	01/17/1983	116.03		
03/29/1984	144.91	09/22/1983	117.87		
04/25/1984	169.67	01/25/1984	119.60		
06/07/1984	183.58				
07/30/1984	184.87				
09/27/1984	195.10				
11/14/1984	171.21				
11/30/1984	165.00				
12/28/1984	156.52				

Table 7.--Water levels in wells in Fort Bend County--Continued

[illegible]

Table 7.--Water levels in wells in Fort Bend County--Continued

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
WELL JY-65-29-701 OWNER: JULIA TAGUE DEPTH: 459 FEET ELEVATION: 65 FEET		WELL JY-65-33-504 OWNER: JACK WENDT, WELL NO.1 SCREEN: 112-397 FEET ELEVATION: 95 FEET		WELL JY-65-34-604 OWNER: WALTER GLESS SCREEN: 220-660 FEET ELEVATION: 74 FEET	
01/17/1980	94.28	01/16/1980	43.36	01/17/1980	66.07
08/06/1980	94.18	08/07/1980	54.55	08/07/1980	86.62
01/26/1981	94.12	01/26/1981	44.51	01/26/1981	71.90
08/12/1981	94.30	08/12/1981	49.63	08/11/1981	84.84
02/23/1982	99.82	02/24/1982	46.22	02/23/1982	71.75
07/21/1982	98.49	07/23/1982	53.54	02/03/1983	75.01
02/01/1983	100.85	02/03/1983	53.28	09/01/1983	76.65
08/10/1983	104.76	09/01/1983	54.33	02/16/1984	74.38
02/21/1984	102.13	02/21/1984	54.93		
08/02/1984	105.53				
WELL JY-65-33-501 OWNER: JACK WENDT, WELL NO.4 SCREEN: 126-376 FEET ELEVATION: 97 FEET		WELL JY-65-33-509 OWNER: JACK WENDT SCREEN: 120-623 FEET ELEVATION: 96 FEET		WELL JY-65-34-701 OWNER: CITY OF NEEDVILLE, WELL NO.1 SCREEN: 307-417 FEET ELEVATION: 93 FEET	
01/16/1980	46.02	01/16/1980	50.16	01/26/1981	69.82
01/26/1981	47.16	08/07/1980	55.04	08/13/1981	79.42
08/12/1981	48.44	01/26/1981	51.63	02/24/1982	75.65
07/23/1982	50.77	08/12/1981	54.19	07/23/1982	81.74
02/21/1984	52.16	02/24/1982	57.32	03/15/1983	69.53
		07/23/1982	57.64	09/01/1983	84.13
		02/03/1983	53.50	02/22/1984	71.07
		09/01/1983	60.27		
		02/21/1984	57.29		
WELL JY-65-33-502 OWNER: JACK WENDT DEPTH: 590 FEET ELEVATION: 95 FEET		WELL JY-65-33-510 OWNER: JACK WENDT SCREEN: 170-591 FEET ELEVATION: 95 FEET		WELL JY-65-34-901 OWNER: WALTER GLESS SCREEN: 85-636 FEET ELEVATION: 73 FEET	
01/16/1980	40.29			01/26/1981	49.29
08/07/1980	45.75			08/11/1981	51.50
01/26/1981	40.89			03/01/1982	45.30
08/12/1981	45.13	01/16/1980	41.16	07/22/1982	65.53
02/24/1982	44.31	08/07/1980	47.10	02/03/1983	43.89
07/23/1982	46.11	01/26/1981	42.13	09/01/1983	60.05
02/03/1983	45.91	08/12/1981	48.75	02/16/1984	58.23
09/01/1983	47.37	02/24/1982	51.85		
02/21/1984	48.61	07/23/1982	50.91		
		02/03/1983	51.82		
		09/01/1983	52.92		
		02/21/1984	53.14		
WELL JY-65-33-503 OWNER: JACK WENDT, WELL NO.2 DEPTH: 240 FEET ELEVATION: 95 FEET		WELL JY-65-33-801 OWNER: JACK WENDT, WELL NO.3 SCREEN: 317-507 FEET ELEVATION: 92 FEET		WELL JY-65-35-101 OWNER: GULF OIL CORP. DEPTH: 86 FEET ELEVATION: 81 FEET	
01/16/1980	46.00			01/17/1980	30.61
01/26/1981	47.50			08/07/1980	32.75
08/12/1981	49.80			01/26/1981	31.51
02/24/1982	48.40			08/11/1981	33.31
07/23/1982	50.50	01/16/1980	44.07	02/23/1982	26.89
02/21/1984	49.70	08/07/1980	54.35	07/22/1982	28.26
		01/26/1981	44.55	02/03/1983	25.71
		08/12/1981	49.89	08/11/1983	28.80
		02/24/1982	49.42	02/16/1984	27.27
		07/23/1982	52.38		
		02/03/1983	48.28		
		09/01/1983	49.38		
		02/21/1984	49.87		

Table 7.--Water levels in wells in Fort Bend County--Continued

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
WELL JY-65-35-102 OWNER: GULF OIL CORP. DEPTH: 180 FEET ELEVATION: 81 FEET		WELL JY-65-35-303 OWNER: HOUSTON LIGHTING AND POWER CO., W.A.PARRISH PLANT, WELL NO.2 SCREEN: 457-720 FEET ELEVATION: 72 FEET		WELL JY-65-35-304--Cont.	
01/17/1980	27.70			08/06/1982	111.00
08/07/1980	28.32			09/03/1982	113.00
01/26/1981	28.20			10/08/1982	113.00
08/11/1981	28.55	01/18/1980	111.00	11/05/1982	113.00
07/22/1982	27.69	10/01/1980	116.00	01/07/1983	113.00
02/03/1983	28.42	02/06/1981	115.00	02/11/1983	112.00
08/11/1983	28.74	03/20/1981	115.00	03/11/1983	112.00
02/16/1984	27.03	05/15/1981	116.00	04/15/1983	109.00
		06/26/1981	120.00	05/27/1983	110.00
		08/21/1981	121.00	06/24/1983	112.00
		09/18/1981	123.00	07/08/1983	114.00
		10/09/1981	121.00	09/09/1983	113.00
		02/12/1982	126.00	10/14/1983	108.00
		03/02/1982	120.00	11/04/1983	113.00
		05/14/1982	117.00	12/21/1983	113.00
		07/06/1982	123.00	02/10/1984	115.00
		08/06/1982	128.00	03/16/1984	115.00
		09/03/1982	129.00	04/06/1984	114.00
		10/08/1982	130.00	05/18/1984	115.00
		11/05/1982	125.00	06/08/1984	116.00
		01/07/1983	125.00	07/13/1984	119.00
		02/11/1983	124.00	09/07/1984	121.00
		03/11/1983	121.00	10/05/1984	116.00
		05/27/1983	123.00	11/09/1984	115.00
		06/24/1983	123.00	12/07/1984	117.00
		07/08/1983	124.00		
		09/09/1983	123.00	WELL JY-65-43-101 OWNER: C.A. DANKLEF SCREEN: 275-1195 ELEVATION: 76 FEET	
		10/14/1983	126.00	01/17/1980	82.80
		11/04/1983	123.00	08/07/1980	100.22
		12/21/1983	123.00	01/27/1981	84.94
		02/10/1984	124.00	08/13/1981	97.94
		03/16/1984	121.00	02/24/1982	85.02
		04/06/1984	123.00	07/23/1982	95.79
		05/18/1984	123.00	02/03/1983	97.88
		06/08/1984	126.00	08/11/1983	100.30
		07/13/1984	129.00	02/22/1984	98.60
		09/07/1984	128.00		
		10/05/1984	128.00	WELL JY-65-43-602 OWNER: UNKNOWN DEPTH: 482 FEET ELEVATION: 57 FEET	
		11/09/1984	125.00	01/17/1980	80.15
		12/07/1984	128.00	08/07/1980	97.50
				01/27/1981	82.36
		WELL JY-65-35-304 OWNER: HOUSTON LIGHTING AND POWER CO., W.A.PARRISH PLANT, WELL NO.3 SCREEN: 453-836 FEET ELEVATION: 70 FEET		08/13/1981	99.02
		10/01/1980	108.00	03/01/1982	84.28
		02/06/1981	108.00	07/23/1982	91.56
		03/20/1981	108.00	02/03/1983	87.05
		05/15/1981	105.00	08/11/1983	88.74
		06/17/1981	104.00	02/22/1984	89.06
		08/21/1981	107.00		
		09/18/1981	106.00		
		10/09/1981	106.00		
		02/12/1982	110.00		
		03/02/1982	103.00		
		05/14/1982	102.00		
		07/02/1982	108.00		

Table 8.--Chemical analyses of water from wells in Fort Bend County

Water-bearing unit: CHCT, Chicot aquifer; EVGL, Evangeline aquifer

[mg/L, milligram per liter; µg/L, microgram per liter; micromhos, micromhos per centimeter at 25 degrees Celsius; deg C, degrees Celsius]

WELL	OWNER	DEPTH OR PRODUCING INTERVAL (feet)	DATE OF SAMPLE	STLCA, DIS- SOLVED (mg/L) as SiO ₂	IRON, DIS- SOLVED (µg/L) as Fe	MAN- GANESE, DIS- SOLVED (µg/L) as Mn	CALCIUM, DIS- SOLVED (mg/L) as Ca	MAGNE- SIUM, DIS- SOLVED (mg/L) as Mg	SODIUM, DIS- SOLVED (mg/L) as Na	BICAR- BONATE (mg/L) as HCO ₃	CAR- BONATE (mg/L) as CO ₃	SUL- FATE, DIS- SOLVED (mg/L) as SO ₄	CHLO- RIDE, DIS- SOLVED (mg/L) as Cl	FLUO- RIDE, DIS- SOLVED (mg/L) as F	DIS- SOLVED SUM OF TUE- NTS (mg/L)	HARD- NESS (mg/L) as CaCO ₃	SPE- CIFIC CON- DUCT- ANCE (micro- mhos)	PH (stand- ard units)	TEMPER- ATURE (deg C)
1/ JY-65-18-609	FT. BEND COUNTY M.U.D. 34	658 - 1090	EVGL 83-10-20	6	70	20	33	5	77	220	0	17	50	.30	370	100	445	7.7	--
2/ JY-65-19-510	CHELFORD CITY M.U.D., WELL NO. 2	530 - 800	CHCT, EVGL 81-10-20	21	<50 4/	<50 5/	66	9	29	230	0	6	48	.20 6/	370	200	533	7.1	--
2/ JY-65-19-603	KINGSBRIDGE M.U.D., WELL NO. 1	610 - 1490	EVGL 83-02-18	23	70 4/	<50 5/	58	10	38	230	0	11	50	.20 6/	380	190	530	7.2	--
1/ JY-65-19-905	FT. BEND COUNTY M.U.D. 25, WELL NO. 2	562 - 914	CHCT, EVGL 80-08-06 83-06-21	11	100 --	20 --	40 --	7 --	64 --	230 --	0 --	14 --	49 55	.40 --	370 --	130 --	488 552	7.1 7.3	-- 24.0
JY-65-20-804	WEATHERFORD FARM AND GREENHOUSE, INC.	357 - 377	CHCT 83-06-16	--	--	--	--	--	--	--	--	--	58	--	--	--	610	7.4	25.5
1/ JY-65-20-809	TEXAS INSTRU- MENTS, INC., WELL NO. 3	522 - 924	CHCT, EVGL 80-10-09	8	70	10	81	16	33	290	0	9	65	.10	450	270	551	6.4	--
2/ JY-65-27-108	PECAN GROVE M.U.D., WELL NO. 2	450 - 530	CHCT 83-05-18	23	60 4/	<50 5/	66	10	27	220	0	12	51	.20 6/	370	210	500	7.0	--
2/ JY-65-27-323	FT. BEND COUNTY M.U.D. 13, WELL NO. 3	625 - 1055	EVGL 82-05-14	19	<50 4/	<50 5/	44	7	53	240	0	12	30	.30 6/	360	140	488	7.8	--
3/ JY-65-27-505	PLANTATION M.U.D., WELL NO. 2	582 - 830	CHCT, EVGL 80-10-20	--	80	10	49	7	51	250	0	16	31	.50	--	150	500	7.4	--
2/ JY-65-28-105	FT. BEND COUNTY M.U.D. 13, WELL NO. 2	630 - 1090	CHCT, EVGL 82-07-06	22	70 4/	<50 5/	47	9	46	240	0	16	30	.30 6/	360	150	479	7.6	--
JY-65-28-208	QUAIL VALLEY U.D., WELL NO. 3	725 - 1325	EVGL 83-07-19	--	--	--	--	--	--	--	--	--	24	--	--	--	460	7.5	26.5

Table 8.--Chemical analyses of water from wells in Fort Bend County--Continued

WELL	OWNER	DEPTH OR PRODUCING INTERVAL (feet)	WATER- BEARING UNIT	DATE OF SAMPLE	SILICA, DIS- SOLVED (mg/L as SiO ₂)	IRON, DIS- SOLVED (µg/L as Fe)	MAN- GANESE, DIS- SOLVED (µg/L as Mn)	MAGNE- SIUM, DIS- SOLVED (mg/L as Ca)	SODIUM, DIS- SOLVED (mg/L as Na)	BICAR- BONATE (mg/L as HCO ₃)	CAR- BONATE (mg/L as CO ₃)	SUL- FATE, DIS- SOLVED (mg/L as SO ₄)	CHLO- RIDE, DIS- SOLVED (mg/L as Cl)	FLUO- RIDE, DIS- SOLVED (mg/L as F)	DIS- SOLIDS, SUM OF CONSTITU- ENTS (mg/L)	HARD- NESS (mg/L as CaCO ₃)	SPE- CIFIC CON- DUCT- ANCE (micro- mhos)	PH (stand- ard units)	TEMPER- ATURE (deg C)
JY-65-28-309	CITY OF HOU- STON, CHASE- WOOD	770 - 1032	EVGL	83-06-07	--	--	--	--	--	--	--	--	--	--	--	--	509	7.7	26.0
JY-65-28-312	BLUE RIDGE WEST M.U.D., HUN- TER'S GLEN	894 - 1262	EVGL	83-06-06	--	--	--	--	--	--	--	--	30	--	--	--	534	7.6	26.0
JY-65-28-313	FT. BEND COUNTY M.U.D. 26	800 - 1180	EVGL	83-06-01	--	--	--	--	--	--	--	--	29	--	--	--	470	7.5	26.0
2/ JY-65-28-315	BLUE RIDGE WEST M.U.D., WELL NO. 1	770 - 1140	EVGL	80-02-05	17	60 4/	<50 5/	12	1	132	300	0	12	1.2	470	37	610	8.0	--
JY-65-28-406	FT. BEND COUNTY M.U.D. 12, WELL NO. 1	689 - 1664	EVGL	83-06-21	--	--	--	--	--	--	--	--	29	--	--	--	480	7.8	26.0
JY-65-28-508	QUAIL VALLEY U.D., WELL NO. 1	752 - 1320	EVGL	83-05-25	--	--	--	--	--	--	--	--	26	--	--	--	456	7.5	25.5
JY-65-28-603	QUAIL VALLEY U.D., WELL NO. 2	620 - 1077	EVGL	83-06-01	--	--	--	--	--	--	--	--	26	--	--	--	470	7.4	26.0
JY-65-28-604	THUNDERBIRD U.D., THUNDER- BIRD NORTH	626 - 1308	EVGL	83-05-31	--	--	--	--	--	--	--	--	39	--	--	--	564	7.8	26.0
1/ JY-65-28-605	FT. BEND COUNTY M.U.D. 45	706 - 1000	EVGL	83-11-16	23	100	10	4	0	240	300	14	10	1.3	690	11	885	8.2	--
JY-65-29-104	CITY OF HOU- STON, MAYFAIR PARK	735 - 895	EVGL	83-05-24	--	--	--	--	--	--	--	--	62	--	--	--	606	7.4	26.0
JY-65-29-209	CITY OF HOU- STON, RIDGE- MONT	766 - 1050	EVGL	83-06-06	--	--	--	--	--	--	--	--	62	--	--	--	631	7.6	27.0
JY-65-29-408	UNITED SALT CORP.	464 - 488	CHCT	83-05-24	--	--	--	--	--	--	--	--	160	--	--	--	1020	7.4	26.0

1/ Analyzed by Curtis Laboratories.
2/ Analyzed by Edna Wood Laboratories, Inc.
3/ Analyzed by Pope Testing Laboratories.

4/ Total iron (Fe).
5/ Total manganese (Mn).
6/ Total fluoride (F).

Table 9.-- Records of wells in Waller County

Water levels and drawdown: Reported water levels and drawdown given in feet.
 Use of water : N, industrial; P, public supply.
 Water-bearing unit : CHCT, Chicot aquifer; EVGL, Evangeline aquifer.
 Type of data available : D, drillers' log (see table 10); Q, chemical analysis (see table 12).

WELL	OWNER	DRILLER	DATE COMPLETED	DEPTH OF WELL (feet)	DIAMETER OF WELL (inches)	SCREEN LENGTH (feet)	WATER- BEARING UNIT	ALTITUDE OF LAND SURFACE (feet)	WATER LEVEL			USE OF WATER	DISCHARGE (gallons per minute)	DRAWDOWN (feet)	TYPE OF DATA AVAILABLE
									BELOW LAND SURFACE DATUM (feet)	DATE OF MEASUREMENT	DATE OF MEASUREMENT				
YW-65-09-704	BROOKSHIRE M.U.D., WELL NO. 3	ALSAY-TEXAS CORP.	1981	557	16,10	88	412 - 552	EVGL	160	129	03/26/1981	P	750	113	D, Q
YW-66-16-401	SOONER SAND AND GRAVEL	SIEGERT WATER WELLS, INC.	1981	65	16	12	53 - 65	CHCT	125	15	09/07/1981	N	730	45	D

Table 10.--Drillers' logs of wells in Waller County

	Thickness (feet)	Depth (feet)		Thickness (feet)	Depth (feet)
Well YW-65-09-704 Owner: Brookshire Municipal Utility District, Well No. 3 Driller: Alsay-Texas Corp.			Well YW-66-16-401 Owner: Sooner Sand and Gravel Co. Driller: Siegert Water Wells, Inc.		
Topsoil	15	15	Topsoil	1	1
Clay, orange	25	40	Clay	4	5
Clay, orange and sand rock	5	45	Sand	17	22
Gravel and sand	60	105	Sand and gravel sand	13	35
Gravel	50	155	Gravel	29	64
Shale	5	160	Clay	1	65
Sand and gravel	3	163			
Shale	2	165			
Gravel and clay streaks	5	170			
Clay and sand	20	190			
Sand and sand rock	5	195			
Shale, white	15	210			
Clay, sandy white	5	215			
Sand rock	10	225			
Clay, white and sand rock	10	235			
Clay, gray and sand	10	245			
Sand and sandstone	30	275			
Sandstone	15	290			
Clay and sandstone	60	350			
Sandstone	20	370			
Clay, brown	22	392			
Sand	6	398			
Shale, cream	20	418			
Sand	31	449			
Shale, gray	21	460			
Shale	35	495			
Sand	10	505			

Table 11.--Water levels in wells in Waller County

(feet below land surface)

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
WELL YW-60-57-508 OWNER: G.O. VAUGHT DEPTH: 30 FEET ELEVATION: 245 FEET		WELL YW-65-01-814 OWNER: G.P. NELSON DEPTH: 1000 FEET ELEVATION: 191 FEET		WELL YW-65-01-816--Cont.	
01/23/1980	11.42	12/10/1980	117.07	11/29/1983	149.93
07/01/1980	14.03	01/13/1981	116.92	12/20/1983	119.85
09/22/1980	16.09	11/05/1981	117.30	01/20/1984	114.13
01/15/1981	14.79	01/18/1982	118.26	02/22/1984	109.67
06/09/1981	12.95	02/16/1982	116.88	03/22/1984	110.18
09/01/1981	14.65	03/15/1982	115.50	04/25/1984	112.88
01/18/1982	13.42	04/19/1982	115.22	09/27/1984	196.23
09/16/1982	13.93	05/17/1982	120.35	11/13/1984	185.23
01/11/1983	13.56	10/27/1982	173.58	11/30/1984	168.35
01/17/1984	14.07	12/07/1982	140.72	12/28/1984	123.40
WELL YW-65-01-502 OWNER: LYNN HEBERT, WELL NO.1 DEPTH: 828 FEET ELEVATION: 202 FEET		01/14/1983	124.44	WELL YW-65-01-904 OWNER: A.E. THOMPSON SCREEN: 45-908 FEET ELEVATION: 184 FEET	
12/10/1980	95.18	02/25/1983	113.74	12/10/1980	92.15
01/13/1981	94.89	03/16/1983	112.51	01/13/1981	91.80
11/05/1981	96.45	04/18/1983	111.92	11/05/1981	92.93
02/03/1982	95.97	05/11/1983	114.04	01/18/1982	89.46
10/25/1982	111.79	07/21/1983	130.56	02/17/1982	87.72
01/14/1983	101.65	08/30/1983	147.81	03/16/1982	86.90
09/27/1983	113.72	09/22/1983	144.05	04/20/1982	85.67
01/26/1984	87.73	11/29/1983	160.13	06/15/1982	86.93
WELL YW-65-01-806 OWNER: R. BOLLINGER AND SONS SCREEN: 260-903 FEET ELEVATION: 195 FEET		12/20/1983	115.70	07/20/1982	89.58
12/10/1980	78.03	01/20/1984	110.19	09/20/1982	89.78
01/13/1981	77.95	02/22/1984	108.88	10/27/1982	89.81
11/05/1981	78.16	03/22/1984	106.73	01/13/1983	89.66
01/18/1982	82.53	04/25/1984	109.61	02/25/1983	89.26
02/16/1982	81.98	06/07/1984	228.04	03/16/1983	88.75
03/15/1982	81.02	07/03/1984	240.35	04/19/1983	87.98
04/19/1982	80.17	07/30/1984	249.66	05/13/1983	89.26
05/17/1982	86.81	09/04/1984	261.52	06/23/1983	91.60
06/14/1982	77.80	09/26/1984	172.40	07/21/1983	88.50
07/19/1982	77.36	11/14/1984	150.66	08/30/1983	89.96
09/20/1982	79.39	11/30/1984	134.27	10/04/1983	89.35
10/27/1982	77.30	12/28/1984	127.35	11/07/1983	88.14
01/14/1983	77.13	WELL YW-65-01-816 OWNER: G.P. NELSON SCREEN: 220-1,002 FEET ELEVATION: 190 FEET		11/29/1983	86.66
02/25/1983	76.80	12/09/1981	141.94	12/20/1983	92.24
03/18/1983	77.14	01/18/1982	122.23	01/20/1984	89.68
04/18/1983	76.97	02/17/1982	119.47	02/22/1984	86.16
05/13/1983	76.68	03/16/1982	118.26	WELL YW-65-01-905 OWNER: CLYDE NELSON DEPTH: 810 FEET ELEVATION: 187 FEET	
06/23/1983	77.01	04/20/1982	116.03	12/10/1980	67.80
07/21/1983	77.86	05/18/1982	118.65	01/13/1981	67.67
08/30/1983	77.73	07/20/1982	121.60	11/05/1981	68.44
09/22/1983	77.30	09/20/1982	124.03	02/03/1982	67.82
11/07/1983	77.19	10/21/1982	187.80	10/27/1982	68.48
11/29/1983	76.47	12/07/1982	146.40	01/14/1983	66.41
12/20/1983	77.02	01/14/1983	131.71	09/27/1983	67.22
01/20/1984	76.76	02/25/1983	120.16	01/25/1984	69.60
		03/16/1983	118.97		
		04/19/1983	118.36		
		05/13/1983	118.20		
		06/23/1983	120.95		
		07/21/1983	123.27		
		08/30/1983	144.65		
		09/22/1983	143.38		

Table 11.--Water levels in wells in Waller County--Continued

DATE	WATER LEVEL	DATE	WATER LEVEL
WELL YW-65-09-204 OWNER: G.P. NELSON SCREEN: 200-839 FEET ELEVATION: 185 FEET		WELL YW-65-09-307 OWNER: T.B. TUCKER SCREEN: 117-714 FEET ELEVATION: 176 FEET	
12/12/1980	120.94	12/10/1980	108.22
01/13/1981	120.17	01/13/1981	107.93
11/04/1981	121.85	11/06/1981	109.37
02/03/1982	119.17	02/03/1982	108.96
10/27/1982	172.20	01/25/1984	106.84
01/18/1983	121.08		
09/27/1983	123.51		
01/25/1984	111.68		
WELL YW-65-09-213 OWNER: A. ROBICHAUX SCREEN: 336-1,064 FEET ELEVATION: 180 FEET		WELL YW-65-09-509 OWNER: J.V. CARDIFF AND SONS SCREEN: 170-842 FEET ELEVATION: 167 FEET	
12/12/1980	127.10	12/12/1980	113.38
01/13/1981	127.09	01/13/1981	113.29
11/04/1981	128.41	11/04/1981	114.01
01/19/1982	125.45		
02/17/1982	122.92	WELL YW-65-09-605 OWNER: J.V. CARDIFF AND SONS SCREEN: 136-623 FEET ELEVATION: 165 FEET	
03/16/1982	120.41		
04/20/1982	119.17	12/12/1980	118.07
05/18/1982	127.02	01/13/1981	117.88
10/27/1982	180.43	11/03/1981	119.15
12/07/1982	143.76	02/10/1982	111.99
01/14/1983	127.64	01/17/1983	113.16
02/22/1983	124.74	09/28/1983	116.08
03/16/1983	122.93	02/02/1984	113.80
04/18/1983	122.12		
05/11/1983	124.02	WELL YW-65-09-616 OWNER: J.V. CARDIFF AND SONS DEPTH: 1,074 FEET ELEVATION: 167 FEET	
06/23/1983	128.16		
08/08/1983	153.54	12/12/1980	143.19
08/30/1983	158.13	01/14/1981	143.07
10/04/1983	157.02	11/03/1981	144.42
10/27/1983	156.79	01/19/1982	150.16
11/29/1983	152.58	02/17/1982	148.75
12/20/1983	125.34	03/16/1982	147.15
01/20/1984	122.15	04/20/1982	145.00
02/23/1984	120.64	05/18/1982	152.17
03/22/1984	116.15		
04/25/1984	119.80	WELL YW-66-08-603 OWNER: W.A. BOLLINGER DEPTH: 1,404 FEET ELEVATION: 176 FEET	
07/30/1984	157.71		
09/04/1984	182.23	12/12/1980	61.02
09/26/1984	179.70	01/13/1981	61.10
11/14/1984	171.84	11/04/1981	61.81
11/30/1984	164.52	01/18/1983	61.55
12/28/1984	126.65	09/28/1983	61.72
		02/01/1984	62.16
WELL YW-65-09-301 OWNER: L.E. MORRISON DEPTH: 450 FEET ELEVATION: 173 FEET			
12/10/1980	113.38		
01/13/1981	113.01		
11/06/1981	113.42		
02/03/1982	113.36		
10/25/1982	127.23		
01/17/1983	115.02		
09/27/1983	123.69		
02/02/1984	116.63		

Table 12.--Chemical analyses of water from wells in Waller County

Water-bearing unit: EVGL, Evangeline aquifer

[mg/L, milligram per liter; µg/L, microgram per liter; micromhos, micromhos per centimeter at 25 degrees Celsius; deg C, degrees Celsius]

WELL	OWNER	DEPTH OR PRODUCING INTERVAL (feet)	DATE OF SAMPLE	SILICA, DIS- SOLVED (mg/L as SiO2)	IRON, DIS- SOLVED (µg/L as Fe)	MAN- GANESE, DIS- SOLVED (µg/L as Mn)	CALCIUM, DIS- SOLVED (mg/L as Ca)	MAGNE- SIUM, DIS- SOLVED (mg/L as Mg)	SODIUM, DIS- SOLVED (mg/L as Na)	BICAR- BONATE (mg/L as HCO3)	CAR- BONATE (mg/L as CO3)	SUL- FATE, DIS- SOLVED (mg/L as SO4)	CHLO- RIDE, DIS- SOLVED (mg/L as Cl)	FLUO- RIDE, DIS- SOLVED (mg/L as F)	DIS- SOLIDS, SUM OF CONSTITU- ENTS (mg/L)	HARD- NESS (mg/L as CaCO3)	SPE- CIFIC CON- DUCT- ANCE (micro- mhos)	PH (stand- ard units)	TEMPER- ATURE (deg C)	
1/ YW-65-09-704	BROOKSHIRE M.U.D., WELL NO. 3	412 - 552	EVGL	81-03-27	9	70	20	64	8	55	210	0	21	80	.20	410	190	530	7.6	--

1/ Analyzed by Curtis Laboratories.