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Report 147

WATER WELL AND GROUND-WATER
CHEMICAL ANALYSIS DATA,
SUTTON COUNTY, TEXAS

May 1972

TEXAS WATER DEVELOPMENT BOARD

REPORT 147

**WATER WELL AND GROUND-WATER CHEMICAL
ANALYSIS DATA, SUTTON COUNTY, TEXAS**

By

Daniel A. Muller and James R. Pool
Texas Water Development Board

May 1972

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TABLE OF CONTENTS

	Page
PURPOSE AND SCOPE	1
LOCATION AND EXTENT	1
METHOD OF INVESTIGATION	1
HISTORICAL DATA	1
WELL-NUMBERING SYSTEM	2
ACKNOWLEDGEMENTS	2
PERSONNEL	2

TABLES

1. Records of Wells and Springs in Sutton County	4
2. Chemical Analyses of Water From Wells and Springs in Sutton County	27

FIGURES

1. Location of Sutton County	1
2. Well-Numbering System	3
3. Map Showing Location of Wells and Springs in Sutton County	38

WATER WELL AND GROUND-WATER CHEMICAL ANALYSIS DATA, SUTTON COUNTY, TEXAS

PURPOSE AND SCOPE

The purpose of this report is to present basic ground-water data collected in Sutton County during a field investigation conducted from December 1968 to March 1969. Historical records pertinent to this investigation have also been included.

The investigation in Sutton County is part of an overall regional investigation of the ground-water resources of the Edwards Plateau, a study encompassing all or parts of 26 counties. The Edwards Plateau study will determine and describe the occurrence, availability, and chemical quality of the ground-water resources in the region.

This report contains the basic data collected in Sutton County and is one of a series of similar basic data reports on selected counties in the Edwards Plateau region. Reports in this series have been published for Schleicher, Glasscock, Reagan, and Irion Counties.

LOCATION AND EXTENT

Sutton County is located in the southwestern part of Texas in the physiographic province known as the Edwards Plateau (Figure 1). It is situated approximately between 100° and 101° west longitude and $30^{\circ}15'$ and $30^{\circ}45'$ north latitude. The county is bounded by Val Verde and Edwards Counties on the south, Crockett County on the west, Schleicher County on the north, and Kimble County on the east. Sutton County covers an area of 1,493 square miles and ranges in elevation from about 1,900 to 2,300 feet above mean sea level.

METHOD OF INVESTIGATION

Collection of data presented in this report was accomplished for the most part between December 1968 and March 1969. Initially, the United States Department of Agriculture office of Agricultural Stabilization and Conservation was visited to obtain information about location of the farms and ranches throughout the county.

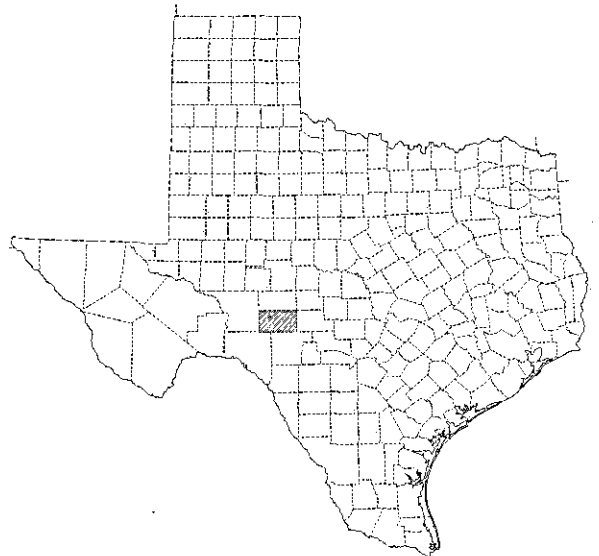


Figure 1.—Location of Sutton County

A representative number of springs and wells, including domestic and livestock, irrigation, industrial, and public supply wells, were visited throughout the county. Public officials and individual landowners and lessees were contacted in order to obtain all available information on each well. Where possible, the static water level and depth of each well were measured, and water samples for chemical analysis were taken from representative wells. The altitude of the land surface at each well location was determined from topographic maps. A total of 494 wells were inventoried (Table 1), and 234 water samples were collected for chemical analysis (Table 2).

HISTORICAL DATA

Previous water-level measurements and chemical analyses on wells and springs which are in the files of the Texas Water Development Board have also been included in the tables of this report for comparison purposes. These data were collected in 1960 and 1961 during a reconnaissance investigation of ground-water resources in the Colorado River basin, and in 1959 to 1961 during a reconnaissance investigation of ground-water resources in the Rio Grande basin.

WELL-NUMBERING SYSTEM

The numbers assigned to wells and springs in this report conform to the statewide well-numbering system used by the Texas Water Development Board. Each well is assigned a number to facilitate record keeping, electronic data processing, and locating the well within the State. The system is based on division of the State into quadrangles formed by lines of latitude and longitude, and repeated divisions of these quadrangles into smaller ones as illustrated in Figure 2.

The largest quadrangle, a 1-degree quadrangle, is divided into sixty-four 7½-minute quadrangles. Each 1-degree quadrangle in the State has been assigned a number for identification. The 7½-minute quadrangles are numbered consecutively from left to right beginning in the upper left hand corner of each 1-degree quadrangle. The 2½-minute quadrangles in each 7½-minute quadrangle are similarly numbered from 1 to 9.

The first two digits of a well number identify the 1-degree quadrangle, the third and fourth digits identify the 7½-minute quadrangle, the fifth digit identifies the 2½-minute quadrangle, and the last two digits designate the order in which the well was inventoried within the 2½-minute quadrangle. In addition to the 7-digit well number, a 2-letter prefix is used to identify each county. The prefix for Sutton County is XS.

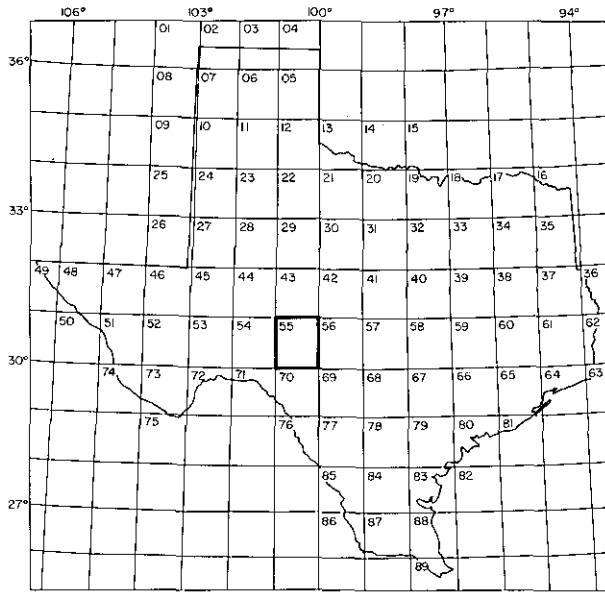
On the well location map (Figure 3), only the last three digits of the well number are shown at the location of the well; the second two digits are shown in the northwest corner of each 7½-minute quadrangle. The first two digits are not shown on the map since Sutton County is located entirely within 1-degree quadrangle 55.

ACKNOWLEDGEMENTS

The authors extend their thanks to the numerous individuals in Sutton County whose cooperation contributed to the success of this investigation. Particular appreciation goes to Mr. E. B. Keng of the United States Department of Agriculture Soil Conservation Service, who was helpful in many ways. Also, our gratitude for the services of the various county officials, ranchers, and farmers; personnel of the United States Department of Agriculture office of Agricultural Stabilization and Conservation; and others who gave of their time to supply information.

PERSONNEL

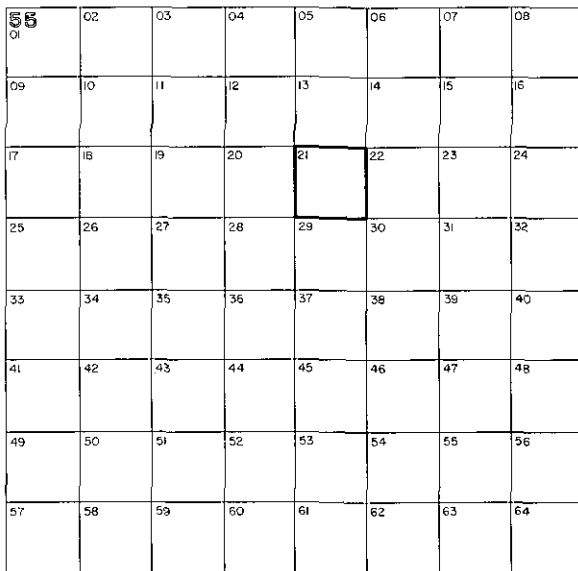
Texas Water Development Board personnel who assisted in collecting and compiling data included in this report are Daniel A. Muller and James R. Pool, Geologists, and Kenneth Jackson, Technician.



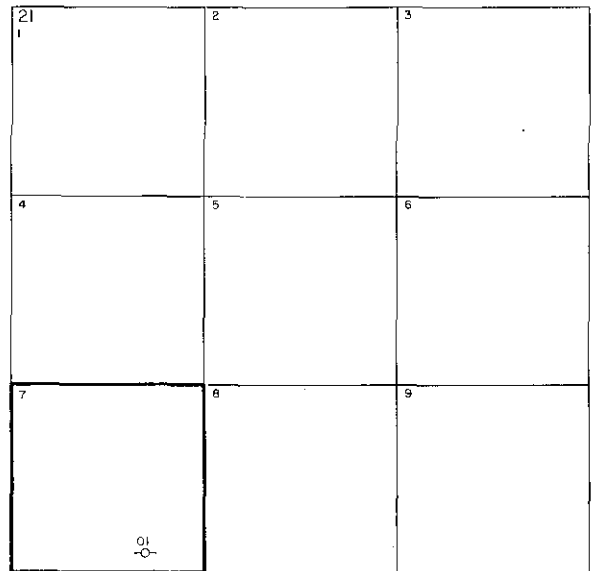
1-degree Quadrangles

Location of Well 55-21-701

- 55 1-degree quadrangle
- 21 7 1/2-minute quadrangle
- 7 2 1/2-minute quadrangle
- or Well number within 2 1/2-minute quadrangle



7 1/2-minute Quadrangles



2 1/2-minute Quadrangles

Figure 2
Well-Numbering System

Table 1.--Records of Wells and Springs in Sutton County

All wells are drilled unless otherwise noted in remarks.

Water bearing unit : Qal, Quaternary alluvium; Kea, Edwards and associated limestones; Kt, Trinity sand; P, Permian rocks.
 Altitudes of land surface : Determined by topographic maps.
 Water levels : Reported water levels given in feet; water levels measured with an electric line are given in feet and tenths of a foot; water levels measured with a steel tape are given in feet, tenths, and hundredths of a foot.
 Method of lift and type of power: C, cylinder; E, electric; G, natural gas, butane, or gasoline; N, none; S, submersible; T, turbine; W, windmill.
 Use of water : D, domestic; Ind, industrial; Irr, irrigation; N, none; P, public supply; S, livestock.

WELL	OWNER	LESSEE OR TENANT	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)			BELOW LAND-SURFACE DATUM (FT)	DATE OF MEASUREMENT			
55-17-502	E.S. Mayer, Jr. and Ernestine Mayer	Ralph Mayer	1885	230	--	--	Kea	2,286	--	--	C,W	S	
601	do	do	1962	375	6	--	Kea	2,392	333.5	Dec. 12, 1968	S,E	S	
602	do	do	1925	175	--	--	Kea	2,233	182.5	Dec. 13, 1968	C,W	S	
* 603	William Allison	Robert Allison	1962	240	--	--	Kea	2,218	178.6	Mar. 5, 1969	S,E	Irr	
* 801	T.D. Beasley	Gerald Nicks	--	310	--	--	Kea	2,273	226.9	Feb. 27, 1969	S,E	S	
* 802	do	do	--	327	--	--	Kea	2,271	229.4	do	C,W	S	
* 803	do	do	--	330	--	--	Kea	2,291	243.7	do	C,W	S	
804	do	do	--	300	--	--	Kea	2,321	266.6	do	S,E	S	
* 902	William Allison	Robert Allison	--	--	--	--	Kea	2,187	149.9	do	C,W	S	
* 903	do	do	1962	300	--	--	Kea	2,202	--	--	S,E	Irr	
* 904	do	do	--	--	--	--	Kea	2,236	--	--	C,W	D,S	
905	do	do	1962	--	--	--	Kea	2,235	198.1	Mar. 5, 1969	S,E	Irr	
906	do	do	1968	--	6	--	Kt	2,280	206.2	do	N	N	Abandoned industrial well.
907	do	do	--	--	--	--	Kea	2,205	171.6	do	T,G	Irr	
908	do	do	1962	300	--	--	Kea	2,200	263.9	Feb. 27, 1969	S,E	Irr	
* 18-401	E.S. Mayer Trust and Ernestine Mayer	Ralph Mayer	1942	360	--	--	Kea	2,403	336.4	Dec. 12, 1968	C,W	S	
* 402	do	do	1940	165	--	--	Kea	2,200	--	--	C,W	S	
* 501	do	do	1967	390	6-5/8	6	Kea	2,392	337.5	Dec. 12, 1968	C,W	S	
* 601	do	do	1940	267	--	--	Kea	2,300	226.2	do	C,W	S	

See footnote at end of table.

Table 1.--Records of Wells and Springs in Sutton County--Continued

WELL	OWNER	LESSEE OR TENANT	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)			BELOW LAND-SURFACE DATUM (FT)	DATE OF MEASUREMENT			
* 55-18-701	Texas Highway Department	R.N. Adams Construction Company	1967	322	14	322	Kea	2,161	148 149.7 147.6	Jan. 3, 1967 Mar. 12, 1967 Feb. 18, 1968	T,G	Ind	Well drilled to 415 feet then backfilled to 322 feet; casing slotted from 168 to 322 feet.
* 702	E.S. Mayer Trust and Ernestine Mayer	Ralph Mayer	1942	186	8	--	Kea	2,195	164.4	Dec. 12, 1968	S,E	D,S	
703	do	do	--	192	14	--	Kea	2,143	125.0	Dec. 17, 1968	N	N	Abandoned test hole.
704	do	do	1951	249	--	--	Kea	2,209	176.2	Dec. 12, 1968	S,E	D,S	
801	do	do	1942	390	--	--	Kea	2,396	363.2	do	C,W	S	
* 901	Mrs. Rose Thorp, et al.	Howard Kirby	1942	379	--	--	Kea	2,362	--	--	C,W	S	
* 19-402	do	do	--	383	--	--	Kea	2,364	337.5	Feb. 12, 1969	C,W	S	
501	Phillip Pring, Jr.	Bill Tittle	--	250	8	--	Kea	2,218	200.9	Apr. 6, 1961	N	N	Abandoned industrial well.
* 502	do	do	--	325	--	--	Kea	2,233	254.8	Feb. 13, 1969	C,W	S	
* 701	Mrs. Rose Thorp, et al.	Howard Kirby	1900	317	--	--	Kea	2,275	260.9	Feb. 12, 1969	S,E	D,S	
* 702	E.M. DeBerry Estate	Collier Shurley	1958	369	6	--	Kea	2,330	329.6	Jan. 9, 1969	S,E	S	
* 703	Mrs. Rose Thorp, et al.	Howard Kirby	1952	374	--	--	Kea	2,329	322.2	Feb. 12, 1969	C,W	S	
* 803	Bill Tittle	--	--	350	--	--	Kea	2,225	231.3	Feb. 13, 1969	C,W	S	
804	Geraldine F. Tittle	Bill Tittle	1957	400	--	--	Kea	2,310	314.3	do	N	N	Abandoned livestock well.
805	Phillip Pring, Jr.	do	1967	360	--	--	Kea	2,312	299.8	do	C,W	S	
901	Ben F. Meckel, et al.	do	1957	325	--	--	Kea	2,190	205.2	Apr. 6, 1961	S,E	S	
902	do	do	1957	350	--	--	Kea	2,270	276.2	Feb. 13, 1969	S,E	S	
* 903	do	do	1954	300	--	--	Kea	2,198	203.2	do	C,W	S	
904	do	do	--	350	--	--	Kea	2,205	--	--	C,W	S	
20-401	R.M. Thomson	--	--	--	8	2	Kea	2,400	215.0	Oct. 26, 1960	N	N	Abandoned industrial well.

See footnote at end of table.

Table 1.--Records of Wells and Springs in Sutton County--Continued

WELL	OWNER	LESSEE OR TENANT	DATE COM- PLET- ED	DEPTH OF WELL (FT)	CASING		WATER- BEAR- ING UNIT	ALTITUDE OF LAND SURFACE (FT)	WATER LEVEL		METHOD OF LIFT	USE OF WATER	REMARKS
					DIAM- ETER (IN)	DEPTH (FT)			BELOW LAND- SURFACE DATUM (FT)	DATE OF MEASUREMENT			
55-20-402	James T. Hunt	James L. Powell	--	--	--	--	Kea	2,350	271.1	May 27, 1965	C,W	S	
501	do	do	--	--	6	--	Kea	2,350	203.1	Apr. 11, 1961	N	N	Abandoned livestock well.
502	do	do	--	--	--	--	Kea	2,348	275.8	do	N	N	Abandoned industrial well.
* 503	do	do	--	--	--	--	Kea	2,365	256.7	May 27, 1965	S,E	D,S	
504	do	do	--	--	--	--	Kea	2,381	--	--	C,W	S	
* 601	Mrs. Pauline McIntosh	P.K. McIntosh	--	350	--	--	Kea	2,384	261.1	June 23, 1965	C,W	S	
602	do	do	--	--	--	--	Kea	2,366	240.6	do	C,W	S	
* 701	James T. Hunt	James L. Powell	--	--	--	--	Kea	2,357	--	--	C,W	S	
* 802	do	do	--	--	--	--	Kea	2,374	--	--	C,W	S	
803	do	do	--	--	--	--	Kea	2,346	277.2	May 27, 1965	C,W	S	
804	do	do	--	--	--	--	Kea	2,353	--	--	C,W	S	
* 805	do	do	--	--	--	--	Kea	2,256	--	--	C,W	S	
* 806	Allie Askew	Vestel Askew	1948	350	--	--	Kea	2,345	281.3	Feb. 6, 1969	C,W	S	
807	do	do	--	350	--	--	Kea	2,347	--	--	C,W	S	
901	James T. Hunt	James L. Powell	--	--	--	--	Kea	2,376	--	--	C,W	S	
* 902	Allie Askew	Vestel Askew	--	350	--	--	Kea	2,370	304.2	Feb. 6, 1969	C,W	S	
903	do	do	1965	350	--	--	Kea	2,360	299.4	do	S,E	S	
21-401	Mrs. Pauline McIntosh	P.K. McIntosh	--	--	--	--	Kea	2,320	157.4	June 23, 1965	C,W	S	
402	do	do	--	--	--	--	Kea	2,370	--	--	C,W	S	
* 403	do	do	--	300	4	--	Kea	2,307	--	--	C,W	S	
501	Walter Pope	--	1945	330	--	--	Kea	2,341	212.6	June 30, 1965	C,W	S	
* 601	Clara Allison	Harold Schwiening	1950	321	--	--	Kea	2,378	254.4	Jan. 28, 1969	C,W	S	
* 602	Henry Walker Estate	C.T. Jones	1902	175	--	--	Kea	2,260	139.6	Jan. 8, 1969	C,W	D,S	
701	R.A. Halbert	--	1958	294	--	--	Kea	2,370	272.7	Dec. 17, 1968	S,E	S	

See footnote at end of table.

Table 1.--Records of Wells and Springs in Sutton County--Continued

WELL	OWNER	LESSEE OR TENANT	DATE COM- PLET- ED	DEPTH OF WELL (FT)	CASING		WATER- BEAR- ING UNIT	ALTITUDE OF LAND SURFACE (FT)	WATER LEVEL		METHOD OF LIFT	USE OF WATER	REMARKS
					DIAM- ETER (IN)	DEPTH (FT)			BELOW LAND- SURFACE DATUM (FT)	DATE OF MEASUREMENT			
* 55-21-702	Bobbie Fawcett, et al. and R.A. Halbert	R.A. Halbert	1939	300	--	--	Kea	2,357	267.6	Dec. 17, 1968	C,W	S	
* 801	R.A. Halbert	--	1958	300	6	--	Kea	2,373	263.8	do	S,E	S	
802	do	--	1956	300	--	--	Kea	2,370	255.4	do	S,E	S	
* 803	Clara Allison	Harold Schwiening	1950	215	--	--	Kea	2,300	128.2	Jan. 28, 1969	C,W	S	Old well redrilled in 1950.
* 902	do	do	1950	267	--	--	Kea	2,370	244.6	do	C,W	D,S	
* 22-501	Carl J. Cahill	G.L. Ballew	--	385	--	--	Kea	2,320	--	--	T,E	D	
502	C.T. Jones, Sr.	--	1964	--	--	--	Kea	2,382	--	--	C,W	S	
503	do	--	1964	263	6	--	Kea	2,393	255.7	Jan. 16, 1969	C,W	S	
601	do	--	1960	280	--	--	Kea	2,309	168.0	June 25, 1965	C,W	S	
* 602	do	--	1962	298	--	--	Kea	2,300	158.9	Jan. 16, 1969	S,E	S	
* 603	do	--	1958	294	--	--	Kea	2,342	180.0	do	S,E	S	
* 604	E.L. Hardgrave, Jr., et al.	R.L. Hardgrave	--	282	--	--	Kea	2,406	268.2	Jan. 10, 1969	C,W	S	
* 701	John W., Jr. and James R. McDermott	Harold Schwiening	--	300	6	--	Kea	2,330	203.3 204.3	Apr. 18, 1961 Jan. 28, 1969	C,W	S	
703	J.I. King	do	--	--	11	--	Kea	2,356	230	do	N	N	Abandoned livestock well.
* 801	C.T. Jones, Sr.	--	1958	284	--	--	Kea	2,444	275	Jan. 16, 1969	C,W	S	
* 802	do	--	1961	383	--	--	Kea	2,426	273.4	do	S,E	S	
* 901	Mrs. Dantas Reiley	R. Street	--	298	--	--	Kea	2,452	278.3	Jan. 9, 1969	S,E	D,S	
* 23-401	Ned Dunbar, et al.	Billie Galbreath	1927	303	--	--	Kea	2,405	262.3 260.7	Apr. 26, 1961 Jan. 17, 1969	C,W	S	
* 402	E.J. Hardgrave, Jr., et al.	R.L. Hardgrave	1958	267	--	--	Kea	2,414	260.8	Jan. 10, 1969	C,W	S	
501	Ned Dunbar, et al.	Billie Galbreath	--	180	5-3/4	30	Kea	2,272	30	Apr. 26, 1961	S,E	D,S	
502	do	do	--	185	5	--	Kea	2,287	130.8	Feb. 4, 1969	N	N	Unused livestock well.
* 503	do	do	1930	198	6	--	Kea	2,311	161.0	Jan. 17, 1969	S,E	S	

See footnote at end of table.

Table 1.--Records of Wells and Springs in Sutton County--Continued

WELL	OWNER	LESSEE OR TENANT	DATE COMPLETED	DEPTH OF WELL (FT)	CASING		WATER-BEARING UNIT	ALTITUDE OF LAND SURFACE (FT)	WATER LEVEL		METHOD OF LIPT	USE OF WATER	REMARKS
					DIAMETER (IN)	DEPTH (FT)			BELOW LAND-SURFACE DATUM (FT)	DATE OF MEASUREMENT			
55-23-504	Ned Dunbar, et al.	Billie Galbreath	1930	172	--	--	Kea	2,275	133.3	Jan. 17, 1969	C,W	S	
* 601	do	do	1967	245	5-1/2	30	Kea,P	2,303	178.1	do	C,W	S	
602	do	do	1964	292	5-3/4	30	Kea	2,392	207.1	Jan. 16, 1969	C,W	S	
801	do	do	1930	205	5-3/4	30	Kea	2,341	178.3	do	C,W	S	
* 901	Leonard Gibbs	--	1944	318	--	--	Kea	2,444	275.3	Jan. 22, 1969	C,W	S	
* 902	do	--	--	140	--	--	Kea	2,329	144.5	do	C,W	D,S	
903	do	--	1944	144	--	--	Kea	2,317	132.6	Jan. 24, 1969	C,W	S	
* 904	Ned Dunbar, et al.	Billie Galbreath	1930	220	--	--	Kea	2,352	--	--	C,W	S	
* 24-707	Leonard Gibbs	--	1930	172	--	--	Kea	2,335	152.2	Jan. 24, 1969	C,W	S	
* 25-201	Hudspeth Memorial Hospital	--	--	434	--	--	Kea	2,381	371.5	Feb. 13, 1969	C,W	S	
* 301	E.S. Mayer Trust and Ernestine Mayer	Ralph Mayer	1966	248	8	8	Kea	2,231	211.9	Dec. 13, 1968	C,W	S	
302	do	do	1958	160	14	165	Kea	2,138	134.6	do	T,G	Irr	Casing slotted from 125 to 165 feet.
501	Hudspeth Memorial Hospital	--	--	411	--	--	Kea,Kt	2,240	246.4	Feb. 12, 1969	N	N	Abandoned domestic well.
* 502	do	--	1963	450	--	--	Kea	2,364	448.8	do	S,E	D,S	
* 503	T.D. Beasley	--	1939	210	--	--	Kea	2,151	201.6	Feb. 3, 1969	C,W	S	
* 601	E.S. Mayer Trust and Ernestine Mayer	Ralph Mayer	1948	185	--	--	Kea	2,115	154.9	Dec. 13, 1968	C,W	S	
* 602	Hudspeth Memorial Hospital	--	--	261	8	--	Kea	2,196	212.1	Feb. 12, 1969	C,W	S	
603	do	--	--	267	--	--	Kea	2,180	221.6	Feb. 13, 1969	C,W	S	
* 604	do	--	--	--	--	--	Kea	2,178	--	--	C,W	S	
* 901	Whitehead and Brown	W.L. Whitehead	1900	202	6	--	Kea	2,089	184.4	Jan. 31, 1969	S,E	D,S	
902	do	do	1966	206	12-3/8	152	Kea	2,052	133.3	do	N	N	Test hole for irrigation well.

See footnote at end of table.

Table 1.--Records of Wells and Springs in Sutton County--Continued

WELL	OWNER	LESSEE OR TENANT	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)			BELOW LAND-SURFACE DATUM (FT)	DATE OF MEASUREMENT			
55-25-903	Whitehead and Brown	W.L. Whitehead	1961	257	--	--	Kea	2,160	201.3	Jan. 31, 1969	C,W	S	
* 904	do	do	1963	179	12	100	Kea	2,058	138.5	do	S,E	Irr	
* 26-101	E.S. Mayer Trust and Ernestine Mayer	Ralph Mayer	1957	164	14	164	Qal	2,120	112.60 116.60	July 13, 1960 Dec. 13, 1968	T,G	Irr	
* 103	do	do	1967	405	6-5/8	5	Kea	2,360	360.7	do	C,W	S	
104	do	do	1966	267	6-5/8	5	Kea	2,205	205.1	do	C,W	S	
201	Stanley B. Mayfield II, et al.	B.B. Ingram	1952	500	8	--	Kea,Kt	2,262	181.8	Apr. 12, 1961	N	N	Abandoned industrial well.
202	Mrs. M.H. Mayer and E.S. Mayer	Ralph Mayer	1950	350	--	--	Kea	2,255	273.7	Dec. 13, 1968	C,W	D,S	
* 203	do	do	1968	410	7	5	Kea	2,362	359.9	Dec. 17, 1968	C,W	S	
* 301	A. Simmons	Dock Simmons	1954	280	--	--	Kea	2,251	261.8	Feb. 26, 1969	C,W	S	Water enters borehole above water level and cascades down borehole.
* 401	E.S. Mayer Trust and Ernestine Mayer	Ralph Mayer	--	165	14	--	Kea	2,105	125.8	Dec. 13, 1968	N	N	Well drilled for irrigation.
* 501	Stanley B. Mayfield II, et al.	B.B. Ingram	--	--	--	--	Kea	2,163	--	--	C,W	S	
502	do	do	--	--	--	--	Kea	2,250	--	--	C,W	S	
503	do	do	--	--	--	--	Kea	2,218	--	--	C,W	S	
504	do	do	--	280	6-1/2	--	Kea	2,200	236.0	Jan. 29, 1969	C,W	S	
* 505	do	do	--	267	--	--	Kea	2,220	260.6	do	S,E	P	Well at Caverns of Sonora.
506	do	do	--	204	--	--	Kea	2,153	186.5	do	S,E	N	Unused well.
* 507	E.S. Mayer Trust and Ernestine Mayer	Ralph Mayer	1951	390	--	--	Kea	2,295	--	--	C,W	S	
601	Stanley B. Mayfield II, et al.	B.B. Ingram	1954	366	6	--	Kea	2,315	343.4	Jan. 29, 1969	C,W	S	

See footnote at end of table.

Table 1.--Records of Wells and Springs in Sutton County--Continued

WELL	OWNER	LESSEE OR TENANT	DATE COM- PLET- ED	DEPTH OF WELL (FT)	CASING		WATER- BEAR- ING UNIT	ALTITUDE OF LAND SURFACE (FT)	WATER LEVEL		METHOD OF LIFT	USE OF WATER	REMARKS
					DIAM- ETER (IN)	DEPTH (FT)			BELOW LAND- SURFACE DATUM (FT)	DATE OF MEASUREMENT			
* 55-26-602	Halbert Estate and Fawcett, et al.	Lee Fawcett	1950	500	--	--	Kea	2,276	337.4	Feb. 19, 1969	C,W	S	
* 801	Halbert Estate and Fawcett	do	1950	500	--	--	Kea	2,255	304.3	do	C,W	S	
* 802	do	do	1946	550	--	--	Kea	2,279	327.0	do	C,W	S	
* 901	E.E. Sawyer, Jr., et al.	Edwin Sawyer	1958	274	--	--	Kea	2,116	219.6	Dec. 18, 1968	C,W	S	
* 902	Halbert Estate and Fawcett, et al.	Lee Fawcett	--	400	--	--	Kea	2,165	--	--	C,W	S	
* 903	do	do	1950	500	--	--	Kea	2,245	344.2	Feb. 19, 1969	C,W	S	
27-101	E.M. DeBerry Estate	B.M. Halbert, Jr.	--	545	10-7/8	--	Kea,Kt	2,308	313.0	Jan. 30, 1969	N	N	Test hole.
102	do	do	--	528	--	--	Kea,Kt	2,315	325.6	do	N	N	Do.
* 103	do	do	1929	--	--	--	Kea	2,342	--	--	C,E	D,S	
* 104	A. Simmons	Dock Simmons	--	280	--	--	Kea	2,310	310.2	Feb. 26, 1969	C,W	S	
105	do	do	1968	440	--	440	Kea	2,300	--	--	N	N	Abandoned industrial well.
* 202	El Paso Natural Gas Company	--	1957	485	10	--	Kea	2,329	322.96 327.7	May 24, 1960 Jan. 9, 1969	S,E	Ind	
* 203	do	--	1957	485	10	--	Kea	2,328	--	--	S,E	Ind	
204	E.M. DeBerry Estate	Collier Shurley	1939	69	--	--	Kea	2,298	32.9	Jan. 9, 1969	C,W	S	
205	do	do	1890	12	96	--	Kea	2,298	7.0	do	N	N	Dug well.
* 206	do	do	1904	341	--	--	Kea	2,315	329.0	do	C,W	S	
* 301	do	do	--	219	--	--	Kea	2,190	207.3	do	C,W	S	
302	Mrs. Adah Cauthorn	Mack Cauthorn	1959	--	--	--	Kea	2,230	250.8	Feb. 26, 1969	C,W	D,S	
401	B.M. Halbert, Jr.	--	--	--	--	--	Kea	2,309	--	--	C,W	S	
* 402	Halbert Estate and Fawcett, et al.	Lee Fawcett	--	355	--	--	Kea	2,168	235.5	Feb. 18, 1969	C,W	S	
* 501	Rip Ward	--	1966	260	--	--	Kea	2,163	199.4	Dec. 19, 1968	C,W	S	

See footnote at end of table.

Table 1.--Records of Wells and Springs in Sutton County--Continued

WELL	OWNER	LESSEE OR TENANT	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)			BELOW LAND-SURFACE DATUM (FT)	DATE OF MEASUREMENT			
55-27-601	City of Sonora	--	1938	303	10	--	Kea	2,260	276 282	July 22, 1947 Apr. 8, 1960	T,E	P	
* 602	do	--	1938	303	10	--	Kea	2,260	276 282	July 22, 1947 Apr. 8, 1960	T,E	P	
603	do	--	1947	303	12	303	Kea	2,260	276 282	July 22, 1947 Apr. 8, 1960	T,E	P	
* 604	do	--	1960	204	12	204	Kea	2,132	162 163.9	Apr. 8, 1960 Dec. 11, 1968	T,E	P	Casing slotted from 164 to 204 feet.
605	Sam Allison	--	--	190	--	--	Kea	2,155	179.9 180.2	Apr. 16, 1958 Mar. 27, 1969	S,E	D,S	
606	do	--	--	180	8	180	Kea	2,110	147.8 155.4	Apr. 16, 1958 Mar. 27, 1969	T,E	Irr	Casing slotted from 160 to 180 feet.
607	do	--	--	--	14	--	Kea	2,110	147.7	Apr. 16, 1958	N	N	Abandoned irrigation well.
608	do	--	--	--	8	--	Kea	--	--	--	N	N	Do.
609	do	--	--	--	--	--	Kea	--	--	--	N	N	Do.
611	Rip Ward	--	1930	190	6	--	Kea	2,122	170.9	Dec. 19, 1968	S,E	S	
612	do	--	1940	297	--	--	Kea	2,191	223.7	do	N	N	Abandoned well at house.
* 613	do	--	1966	215	12	188	Kea	2,102	160 157.2	Mar. 1966 Dec. 19, 1968	T,E	Irr	Casing slotted from 133 to 188 feet.
614	Sam Allison	--	1965	200	--	--	Kea	2,150	199.1	Mar. 27, 1969	T,E	Irr	
701	Rip Ward	--	1940	357	--	--	Kea	2,271	319.6	Dec. 19, 1968	C,W	S	
* 702	E.E. Sawyer, Jr., et al.	Edwin Sawyer	--	315	--	--	Kea	2,159	231.6	Dec. 18, 1968	S,E	S	
* 901	J.D. Fields Trust	Herbert Fields	1946	340	--	--	Kea	2,247	294.7	Dec. 20, 1968	C,W	S	
902	do	do	1900	200	--	--	Kea	2,175	--	--	C,W	S	
903	Collier Shurley	--	1950	257	4	107-257	Kea	2,108	188.1	Jan. 8, 1969	C,W	S	
28-101	W.L. Miers	--	--	--	6	--	Kea	2,200	200.5	Apr. 28, 1961	N	N	Abandoned livestock well.
* 103	do	--	1963	330	--	--	Kea	2,165	183.4	Dec. 18, 1968	S,E	Irr	
104	do	--	1965	302	--	--	Kea	2,198	180.7	do	S,E	Irr	
* 105	do	--	--	--	--	--	Kea	2,227	214.9	do	S,E	Irr	

See footnote at end of table.

Table 1.--Records of Wells and Springs in Sutton County--Continued

WELL	OWNER	LESSEE/OR TENANT	DATE COM- PLET- ED	DEPTH OF WELL (FT)	CASING		WATER- BEAR- ING UNIT	ALTITUDE OF LAND SURFACE (FT)	WATER LEVEL		METHOD OF LIFT	USE OF WATER	REMARKS
					DIAM- ETER (IN)	DEPTH (FT)			BELOW LAND- SURFACE DATUM (FT)	DATE OF MEASUREMENT			
* 55-28-106	W.L. Miers	--	1961	300	--	--	Kea	2,255	257.1	Dec. 18, 1968	S,E	D,S	
107	do	--	1968	310	8-5/8	310	Kea	2,195	--	--	N	N	Abandoned irrigation well.
108	do	--	--	200	--	--	Kea	2,213	214.0	Dec. 18, 1968	C,W	S	
* 109	Mrs. Adah Cauthorn	Mack Cauthorn	1959	370	--	--	Kea	2,309	297.6	Feb. 26, 1969	C,W	S	
201	Clara Allison	Vestel Askew	--	325	--	--	Kea	2,346	285.9	do	C,W	S	
* 301	Allie Askew	do	1959	360	6	--	Kea	2,348	280.3	Feb. 11, 1969	C,W	S	
* 401	Mrs. Stella Keene	--	1900	383	6	--	Kea	2,315	314.3	Jan. 29, 1969	S,E	D,S	
402	do	--	1910	--	--	--	Kea	2,313	310.5	do	C,W	D,S	
* 502	Clara Allison	Vestel Askew	--	265	6	30	Kea	2,263	--	--	C,W	S	
503	J.D. Fields Trust	John Fields	1952	305	--	--	Kea	2,306	299.5	Feb. 26, 1969	C,W	S	
* 601	do	do	1905	300	--	--	Kea	2,321	269.4	do	S,E	D,S	
* 702	do	Herbert Fields	1965	227	12	15	Kea	2,138	189.8	Dec. 20, 1968	T,G	Irr	
703	do	do	1947	359	--	--	Kea	2,270	321.5	do	C,W	S	
801	do	John Fields	1933	295	--	--	Kea	2,320	--	--	C,W	S	
* 901	John, Jr. and James R. McDermott	S.H. Allison	1895	350	--	--	Kea	2,296	244.0	Jan. 30, 1969	C,W	S	
29-101	R.A. Halbert	--	--	--	--	--	Kea	2,366	291.1 288.6	Apr. 18, 1961 Dec. 17, 1968	N	N	Abandoned irrigation well.
102	do	--	1949	--	12	--	Kea	2,392	--	--	N	N	Abandoned industrial well.
104	do	--	1900	300	6	--	Kea	2,369	294.5	Dec. 17, 1968	S,E	S	
* 105	do	--	1939	330	--	--	Kea	2,371	295.5	do	C,W	S	
201	do	--	1880	289	--	--	Kea	2,356	246.1	do	S,E	D,S	
* 202	do	--	1940	281	--	--	Kea	2,363	250.3	do	C,W	S	
* 203	Lea Allison	--	--	315	--	--	Kea	2,375	278.1	Jan. 28, 1969	C,W	S	
* 302	G.E. Allison	Vernor Griffin	--	290	6	--	Kea	2,362	242.2	Feb. 4, 1969	C,W	S	
303	do	do	--	290	--	--	Kea	2,349	233.9	do	C,W	S	

See footnote at end of table.

Table 1.--Records of Wells and Springs in Sutton County--Continued

WELL	OWNER	LESSEE OR TENANT	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)			BELOW LAND-SURFACE DATUM (FT)	DATE OF MEASUREMENT			
55-29-304	G.E. Allison	Vernor Griffin	--	290	--	--	Kea	2,346	231.4	Feb. 4, 1969	S,E	S	
305	Rothkin Roy and R.L. Hardgrave, et al.	R.L. Hardgrave	1955	--	7	--	Kea	2,270	155.0	Jan. 15, 1969	N	N	Abandoned industrial well.
* 501	Lea Allison	--	1950	233	6	--	Kea	2,288	222.9 216.4	Apr. 28, 1961 Jan. 23, 1969	S,E	S	
502	do	--	--	220	--	--	Kea	2,260	--	--	C,W	D,S	
503	do	--	1945	235	--	--	Kea	2,272	--	--	C,E	D,S	
* 601	Williamson County School Land	Lea Allison	--	203	6	--	Kea	2,219	170.4	Apr. 28, 1961	C,W	S	
* 602	do	do	1955	246	--	--	Kea	2,246	157.1	do	C,W	S	
701	S.H. Allison	--	1935	350	--	--	Kea	2,321	--	--	C,W	S	
* 702	do	--	1895	350	--	--	Kea	2,346	303.1	Jan. 30, 1969	S,E	D,S	
* 801	Lea Allison	--	1946	230	--	--	Kea	2,313	267.2	Jan. 24, 1969	S,E	S	
802	S.H. Allison	--	1966	350	--	--	Kea	2,322	--	--	S,E	S	
803	do	--	1930	350	--	--	Kea	2,321	278.0	Jan. 30, 1969	C,W	S	
* 901	Lea Allison	--	1950	250	--	--	Kea	2,284	242.7	Jan. 23, 1969	C,W	S	
* 30-101	Jack Allison and Margaret Kidd	Jack Allison	--	--	--	--	Kea	2,294	177.7	Feb. 4, 1969	C,W	S	
302	Mrs. Dantes Reiley	R. Street	--	218	6	--	Kea	2,409	212.2	Jan. 9, 1969	C,W	S	
* 303	Elmer Wilson	--	1954	320	--	--	Kea	2,459	258.4	Jan. 27, 1969	C,W	S	
304	J.V. Alley	--	1920	240	--	--	Kea	2,374	216.3 213.6	Apr. 26, 1961 Feb. 5, 1969	C,W	S	
* 401	Rothkin Roy and R.L. Hardgrave, et al.	R.L. Hardgrave	1940	217	--	--	Kea	2,295	182.0	Jan. 15, 1969	C,W	S	
* 402	R.L. Hardgrave, et al.	--	1947	196	--	--	Kea	2,250	174.0	do	C,W	S	
* 501	do	--	--	164	4	--	Kea	2,243	152.9	do	C,W	S	
* 502	Williamson County School Land	Lea Allison	1945	125	--	--	Kea	2,191	79.8	Jan. 23, 1969	C,W	S	
503	J.W. Hardgrave, et al.	J.W. Hardgrave	1951	175	6	20	Kea	2,221	--	--	C,W	S	

See footnote at end of table.

Table 1.--Records of Wells and Springs in Sutton County--Continued

WELL	OWNER	LESSEE OR TENANT	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)			BELOW LAND-SURFACE DATUM (FT)	DATE OF MEASUREMENT			
* 55-30-504	J.W. Hardgrave, et al.	J.W. Hardgrave	--	175	--	--	Kea	2,272	163.0	Jan. 8, 1969	C,W	S	
* 505	do	do	--	297	--	--	Kea	2,341	265.5	do	C,W	D,S	
* 701	Lea Allison	--	1946	260	6	10	Kea	2,209	155.7 154.8	Apr. 28, 1961 Jan. 23, 1969	C,W	D,S	
702	Albert Schulz	Martin Schulz	1942	301	--	--	Kea	2,298	273.2	Feb. 27, 1969	C,W	S	
* 703	do	do	--	300	--	--	Kea	2,239	--	--	C,W	S	
* 801	do	do	--	--	--	--	Kea	2,195	--	--	C,W	D,S	
* 901	G.B. Baker	Dorothy Baker	1960	218	--	--	Kea	2,238	160.9	Jan. 22, 1969	C,W	S	
* 31-101	Elmer Wilson, et al.	Elmer Wilson	--	249	--	--	Kea	2,445	240.1	Jan. 27, 1969	C,W	S	
* 201	Winnie Joseph	do	1943	208	--	--	Kea	2,345	161.0	do	C,W	S	
* 202	Beatrice Simon	J.W. Sykes	1897	158	6	20	Kea	2,345	147.6	Jan. 22, 1969	C,W	D,S	
* 203	Mrs. M. Luckie	O.W. Burtin, Jr.	--	116	--	--	Kea	2,264	109.2	do	C,W	S	
* 303	L. Gibbs	Noland Gibbs	1900	89	--	--	Kea	2,265	75.3	do	C,W	D,S	
* 304	Elmer Wilson	--	--	Spring	--	--	Kea	2,190	--	--	--	--	Known as Pecan Springs.
* 305	Wesley Sykes	J.W. Sykes	1921	100	--	--	Kea	2,250	--	--	C,W	D,S	
* 401	H.R. Jacoby, et al.	Phillip Jacoby	--	224	6	--	Kea	2,365	166.5 171 163.9	May 10, 1961 June 9, 1967 Jan. 8, 1969	S,E	D,S	
* 403	Elmer Wilson	--	1929	250	--	--	Kea	2,375	192.9	Jan. 27, 1969	C,W	D,S	
* 502	Margaret Schwiening	Harold Schwiening	1962	141	--	--	Kea	2,372	127.7	Jan. 9, 1969	C,W	S	
* 601	do	George Schwiening	1968	164	--	--	Kea	2,280	135.8	do	C,W	S	
* 602	do	do	1948	80	3	80	Kea	2,195	--	--	C,W	D,S	
701	Selma Wyatt	Phillip Jacoby	--	163	6	--	Kea	2,275	141 145.0	Aug. 14, 1968 Jan. 8, 1969	N	N	Abandoned test hole.
* 702	do	do	--	230	--	--	Kea	2,260	--	--	C,E	D,S	
804	Margaret Schwiening	Harold Schwiening	--	225	--	--	Kea	2,224	--	--	C,W	S	

See footnote at end of table.

Table 1.--Records of Wells and Springs in Sutton County--Continued

WELL	OWNER	LESSEE OR TENANT	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)			BELOW LAND-SURFACE DATUM (FT)	DATE OF MEASUREMENT			
* 55-31-901	Margaret Schwiening	Alfred Schwiening	--	249	--	--	Kea	2,298	181.7	Jan. 9, 1969	C,W	S	
33-201	F.F. Friend	--	--	--	6	--	Kea	2,100	215.7	Sept. 14, 1962	N	N	Abandoned livestock well.
202	Whitehead and Brown	Jack Brown	1961	245	--	--	Kea	2,125	217.8	Feb. 3, 1969	C,W	S	
* 203	do	do	1961	--	--	--	Kea	2,132	--	--	S,E	S	
* 204	Jerry Johnson	--	1960	312	--	--	Kea	2,052	166.7	Mar. 12, 1970	S,E	D	
* 301	Stella Sewell, et al.	Whitehead and Brown	--	319	--	--	Kea,Kt	2,086	169.3	Feb. 4, 1969	C,W	S	
* 302	do	do	--	370	--	--	Kea	2,260	350.2	do	C,W	S	
* 303	Gerald Nicks	--	--	230	--	--	Kea	2,136	215.8	Mar. 6, 1969	C,W	S	
* 501	Willie R. Meckel	Jerry Johnson	--	200	--	--	Kea	2,058	181.5	Feb. 27, 1969	C,W	S	
* 502	do	do	--	220	--	--	Kea	2,042	187.8	do	C,W	S	
503	do	do	--	200	--	--	Kea	2,083	--	--	C,W	S	
504	Gerald Nicks	--	1951	190	8	--	Kea	2,980	149.9	Mar. 6, 1969	C,E	D,S	
* 601	Gerald Nicks, et al.	Gerald Nicks	--	230	--	--	Kea	2,114	219.6	do	C,W	S	
602	do	do	--	--	--	--	Kea	2,002	--	--	N	N	Abandoned domestic well.
603	do	do	--	--	--	--	Kea	2,000	--	--	N	N	Do.
604	Gerald Nicks	--	--	210	--	--	Kea	2,100	--	--	C,W	D,S	
* 801	Mrs. Joe Friend	--	--	176	8	150	Kea	1,947	118.6 147.1 131.1	July 27, 1960 Sept. 13, 1962 Mar. 12, 1970	C,W	S	
802	do	--	--	130	12	130	Qa1	1,930	100	July 28, 1960	N	N	Abandoned irrigation well.
* 803	do	--	--	190	6	--	Kea	1,950	135.7 143.0	Sept. 13, 1962 Mar. 12, 1970	C,W	S	
* 804	W.H. Karnes, et al.	W.H. Karnes	--	316	--	--	Kea	2,032	207.6	Dec. 12, 1969	C,W	S	
805	do	do	--	284	--	--	Kea	1,988	180.5	Feb. 11, 1969	C,W	S	
* 806	do	do	--	--	--	--	Kea	1,987	--	--	C,W	S	

See footnote at end of table.

Table 1.--Records of Wells and Springs in Sutton County--Continued

WELL	OWNER	LESSEE OR TENANT	DATE COM- PLET- ED	DEPTH OF WELL (FT)	CASING		WATER- BEAR- ING UNIT	ALTITUDE OF LAND SURFACE (FT)	WATER LEVEL		METHOD OF LIFT	USE OF WATER	REMARKS
					DIAM- ETER (IN)	DEPTH (FT)			BELOW LAND- SURFACE DATUM (FT)	DATE OF MEASUREMENT			
* 55-33-807	W.H. Karnes, et al.	W.H. Karnes	--	169	--	--	Kea	1,955	141.4	Feb. 11, 1969	S,E	D,S	
808	do	do	--	300	6	--	Kea	2,089	248.8	do	C,W	S	
* 901	Marjory R. Johnson	Lea Roy Aldwell	--	--	--	--	Kea	2,249	361.0	Dec. 10, 1968	C,W	S	
902	W.H. Karnes, et al.	W.H. Karnes	--	225	--	--	Kea	2,035	196.2	Feb. 11, 1969	C,W	S	
903	do	do	--	223	6	--	Kea	2,010	202.4	do	C,W	S	
* 904	do	do	--	263	--	--	Kea	2,082	224.4	do	C,W	S	
* 34-101	Gerald Nicks	--	--	250	--	--	Kea	2,163	240.5	Mar. 6, 1969	C,W	S	
* 301	E.E. Sawyer, Jr., et al.	Edwin Sawyer	1920	264	--	--	Kea	2,143	258.4	Dec. 18, 1968	C,W	S	
* 401	Aldwell Brothers	Lea Roy Aldwell	--	251	6	--	Kea	2,124	221.6	Dec. 10, 1968	C,W	S	
* 402	Gerald Nicks	--	--	230	--	--	Kea	2,155	--	--	C,W	S	
502	Aldwell Brothers	Lea Roy Aldwell	1930	197	--	--	Kea	2,024	158.1	Dec. 10, 1968	C,W	S	
* 503	do	do	1955	267	8	--	Kea	2,116	229.1	do	C,W	S	
601	Duke Wilson	--	1955	251	--	--	Kea	2,113	244.3	Jan. 23, 1969	C,W	S	
* 602	do	--	1930	218	--	--	Kea	2,070	192.6	do	C,W	S	Estimated yield 2 to 3 gpm.
701	Aldwell Brothers	Lea Roy Aldwell	--	170	6	170	Kea	1,957	125.6	Apr. 27, 1961	C,W	S	
702	do	do	--	219	--	--	Kea	2,082	200.7	Dec. 11, 1968	C,W	S	
* 703	do	do	1940	132	--	--	Kea	1,942	113.2	Dec. 10, 1968	C,W	S	
704	do	do	--	--	--	--	Kea	1,945	--	--	N	N	Abandoned livestock well.
705	Marjory R. Johnson	do	--	--	6	--	Kea	1,940	--	--	C,W	S	
* 801	Aldwell Brothers	do	1918	128	5	128	Kea	1,988	113.5	Dec. 10, 1968	S,E	D,S	
901	Duke Wilson	--	1967	217	14	150	Kea	1,985	172.6	Jan. 24, 1969	N	N	Abandoned test hole.
902	do	--	1900	140	--	--	Kea	1,992	--	--	C,E	S	
* 903	do	--	1912	247	--	--	Kea	2,027	164.4	Jan. 23, 1969	C,W	S	Estimated yield 1 to 2 gpm.

See footnote at end of table.

Table 1.--Records of Wells and Springs in Sutton County--Continued

WELL	OWNER	LESSEE OR TENANT	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)			BELOW LAND-SURFACE DATUM (FT)	DATE OF MEASUREMENT			
* 55-35-102	E.E. Sawyer, Jr., et al.	Edwin Sawyer	1940	--	--	--	Kea	2,093	204.8	Dec. 18, 1968	C,E	S	
* 103	Mrs. Velma Shurley	Gene Shurley	--	281	--	--	Kea	2,124	228.8	Jan. 14, 1969	C,W	S	
* 201	E.E. Sawyer, Jr., et al.	Edwin Sawyer	--	339	6	5	Kea,Kt	2,095	165.8	Dec. 18, 1968	N	N	Abandoned livestock well. Strong hydrogen sulfide odor.
* 202	Alice L. Jones	--	1940	231	--	--	Kea	2,089	181.2	do	C,W	S	
203	Mrs. Velma Shurley	Gene Shurley	1923	154	--	--	Kea	2,049	146.4	Jan. 14, 1969	C,W	S	
301	Collier Shurley	--	1900	235	--	--	Kea	2,125	199.0	Jan. 8, 1969	C,W	S	
302	do	--	1900	--	--	--	Kt	2,122	--	--	N	N	Abandoned livestock well. Well caved at 23 feet.
* 303	do	--	1949	--	--	--	Kea	2,250	--	--	C,W	D,S	
304	do	--	1954	371	--	--	Kea	2,184	245.1	Jan. 8, 1969	C,W	S	Drilled to supply water for drilling oil test.
305	do	--	1927	263	--	--	Kea	2,174	247.3	do	C,W	S	
* 306	do	--	1950	290	--	--	Kea	2,136	201.3	do	C,W	S	
* 307	do	--	1900	--	--	--	Kea	2,228	--	--	C,W	S	Very slight hydrogen sulfide odor.
401	Mrs. Velma Shurley	Gene Shurley	1953	171	--	--	Kea	2,019	147.0 146.8	Apr. 5, 1961 Jan. 14, 1969	C,W	S	
* 402	do	Jerry Shurley	1890	144	--	--	Kea	2,010	130.5	Jan. 15, 1969	C,W	S	
* 403	do	do	1959	252	--	--	Kea	2,115	239.9	do	C,W	S	
* 404	do	Gene Shurley	1963	169	--	--	Kea	2,085	135.5	Jan. 14, 1969	C,W	S	
405	do	Jerry Shurley	1890	180	--	--	Kea	2,055	--	--	S,E	D,S	
* 406	do	do	1951	213	--	--	Kea	2,063	186.9	Jan. 15, 1969	C,W	S	
* 601	Ned Dunbar, et al.	Allen Dunbar	1930	277	--	--	Kea	2,161	221.4	Jan. 16, 1969	C,W	D,S	
602	do	do	1930	251	--	--	Kea	2,169	247.2	do	C,W	S	
* 801	Duke Wilson	--	1900	279	--	--	Kea	2,106	231.9	Jan. 23, 1969	C,W	S	

See footnote at end of table.

Table 1.--Records of Wells and Springs in Sutton County--Continued

WELL	OWNER	LESSEE OR TENANT	DATE COM- PLET- ED	DEPTH OF WELL (FT)	CASING		WATER- BEAR- ING UNIT	ALTITUDE OF LAND SURFACE (FT)	WATER LEVEL		METHOD OF LIFT	USE OF WATER	REMARKS
					DIAM- ETER (IN)	DEPTH (FT)			BELOW LAND- SURFACE DATUM (FT)	DATE OF MEASUREMENT			
* 55-35-901	Mrs. Nannie B. Sandherr	Billie Galbreath	1940	251	--	30	Kea	2,095	160 202.3	Apr. 13, 1961 Jan. 15, 1969	C,W	S	
902	do	do	--	190	5-3/4	30	Kea	2,082	160 180.0	Apr. 13, 1961 Jan. 15, 1969	S,E	D,S	
36-101	Collier Shurley	--	1953	276	--	--	Kea	2,172	224.5	Jan. 8, 1969	C,W	S	
* 301	J.M. Vanderstucken Life Estate	--	1961	353	--	--	Kea	2,306	313.5 311.3	Apr. 11, 1961 Mar. 11, 1970	C,W	S	
302	Bryan Hunt	--	--	--	--	--	Kea	2,312	--	--	C,E	S	
303	do	--	--	--	--	--	Kea	2,312	--	--	S,E	D,S	
* 304	do	--	--	350	--	--	Kea	2,312	--	--	S,E	D	
305	do	--	--	--	--	--	Kea	2,295	--	--	C,W	S	
306	do	--	--	--	--	--	Kea	2,310	--	--	C,W	S	
307	do	--	--	--	--	--	Kea	2,308	317.8	Feb. 4, 1969	C,W	S	
308	do	--	--	--	--	--	Kea	2,310	--	--	C,W	S	
* 401	Ned Dunbar, et al.	Allen Dunbar	1930	220	5-3/4	40	Kea	2,156	--	--	C,W	S	
* 402	Mrs. Zadio Wyatt	Henry Wyatt	1933	250	--	--	Kea	2,125	193.5	Mar. 27, 1969	C,W	S	
501	John D. Fields	--	1960	303	8-1/2	--	Kea	2,185	236.2	Feb. 24, 1969	N	N	Abandoned livestock well.
* 502	do	--	--	280	--	--	Kea	2,188	239.5	do	C,W	S	
503	Mrs. Zadio Wyatt	Henry Wyatt	1965	280	--	--	Kea	2,180	--	--	C,W	D,S	
* 601	Bryan Hunt	--	--	350	--	--	Kea	2,293	309.9	Feb. 4, 1969	C,W	S	
602	do	--	--	--	--	--	Kea	2,294	--	--	C,W	S	
603	do	--	--	--	--	--	Kea	2,185	--	--	C,W	S	
604	do	--	--	--	--	--	Kea	2,289	--	--	C,W	S	
* 701	M.E. Galbreath	Billie Galbreath	1954	276	5-3/4	90	Kea	2,100	194.1	Jan. 16, 1969	S,E	S	
* 702	do	do	1957	400	--	30	Kea	2,167	261.3	do	C,W	S	Slight mineral taste.
802	G.W. Glimp	Henry Wyatt	--	210	--	--	Kea	2,135	--	--	C,W	S	
* 803	do	do	1938	256	--	--	Kea	2,150	125.3	Mar. 27, 1969	C,W	D,S	

See footnote at end of table.

Table 1.--Records of Wells and Springs in Sutton County--Continued

WELL	OWNER	LESSEE OR TENANT	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)			BELOW LAND-SURFACE DATUM (FT)	DATE OF MEASUREMENT			
* 55-37-101	Bryan Hunt	--	--	350	--	--	Kea	2,319	--	--	C,W	S	
102	Mrs. A.V. Whiddon Estate	Bryan Hunt	--	--	--	--	Kea	2,304	--	--	C,W	S	
103	Bryan Hunt	--	--	--	--	--	Kea	2,312	--	--	C,W	S	
201	do	--	--	--	--	--	Kea	2,333	--	--	C,W	S	
202	do	--	--	--	--	--	Kea	2,326	--	--	C,W	S	
* 203	do	--	--	350	--	--	Kea	2,286	262.2	Feb. 4, 1969	C,W	S	
204	G.D. Wallace, et al.	Libb Wallace	--	312	--	--	Kea	2,306	--	--	C,W,E	D,S	
* 401	Bryan Hunt	--	--	350	--	--	Kea	2,301	--	--	C,W	S	
402	do	--	--	--	--	--	Kea	2,284	341.2	Feb. 4, 1969	C,W	S	
403	do	--	--	--	--	--	Kea	2,296	--	--	C,W	S	
404	do	--	--	--	--	--	Kea	2,298	--	--	C,W	S	
501	G.D. Wallace, et al.	Libb Wallace	1958	335	--	--	Kea	2,293	307.2	Mar. 27, 1969	C,W	S	
* 601	Joe Brown Ross	--	1937	240	--	--	Kea	2,193	--	--	C,W	S	
602	do	--	1952	195	--	--	Kea	2,193	189.8	Jan. 15, 1969	C,W	S	
* 603	Duke Wilson	--	--	--	--	--	Kea	2,195	--	--	C,W	S	
* 701	Libb Wallace	Gene Wallace	--	335	--	--	Kea	2,280	--	--	C,W	D,S	
803	do	do	--	315	--	--	Kea	2,235	263.6	Mar. 27, 1969	C,W	S	
804	do	do	--	--	--	--	Kea	2,268	287.6	do	N	N	Abandoned industrial well.
* 901	Duke Wilson	--	--	231	--	--	Kea	2,183	185.3	Jan. 24, 1969	S,E	D,S	
* 902	do	--	--	344	10	1	Kea	2,220	226.8	do	C,W	S	
* 38-101	Joe Brown Ross	--	1952	350	7	--	Kea	2,318	289.6	Jan. 15, 1969	C,W	S	
102	Albert Schulz	Martin Schulz	--	300	--	--	Kea	2,305	274.4	Feb. 27, 1969	C,W	D,S	
103	Albert Schulz, et al.	do	1942	250	--	--	Kea	2,317	288.4	do	C,W	S	
201	Albert Schulz	do	--	300	--	--	Kea	2,318	290.5	do	C,W	S	
* 301	do	do	--	300	--	--	Kea	2,291	273.2	do	C,W	S	

See footnote at end of table.

Table 1.--Records of Wells and Springs in Sutton County--Continued

WELL	OWNER	LESSEE OR TENANT	DATE COM- PLET- ED	DEPTH OF WELL (FT)	CASING		WATER- BEAR- ING UNIT	ALTITUDE OF LAND SURFACE (FT)	WATER LEVEL		METHOD OF LIFT	USE OF WATER	REMARKS
					DIAM- ETER (IN)	DEPTH (FT)			BELOW LAND- SURFACE DATUM (FT)	DATE OF MEASUREMENT			
55-38-302	Albert Schulz	Martin Schulz	1950	150	--	--	Kea	2,130	107.5	Feb. 27, 1969	C,W	S	
* 401	Joe Brown Ross	--	1918	350	6	--	Kea	2,310	289.1	Jan. 15, 1969	C,W	S	
* 402	do	--	--	--	--	--	Kea	2,215	--	--	T,E	D,S	
403	Duke Wilson	--	1958	188	6	--	Kea	2,172	151.6	Jan. 24, 1969	C,W	S	
501	J.E. Sentell	Sears Sentell	1968	325	--	--	Kea	2,195	--	--	C,W	S	
* 601	do	do	1950	280	--	--	Kea	2,221	217.3	Jan. 30, 1969	C,W	S	
602	Williamson County School Land	do	--	90	--	--	Kea	2,090	75.3	do	N	N	Abandoned livestock well.
* 701	Duke Wilson	--	--	149	6	---	Kea	2,142	124.1	Jan. 24, 1969	S,E	D,S	
801	Williamson County School Land	Sears Sentell	1951	--	--	--	Kea	2,225	232.5	Jan. 30, 1969	N	N	Abandoned livestock well.
802	do	do	1963	300	--	--	Kea	2,210	217.0	do	S,E	S	
803	J.E. Sentell	do	--	--	--	--	Kea	2,170	160.2	do	N	N	Abandoned livestock well.
* 804	do	do	1923	180	--	--	Kea	2,140	--	--	S,E	D,S	
* 805	Duke Wilson	--	--	--	--	--	Kea	2,120	--	--	C,W	S	
806	Mrs. Fannie E. Wade	Bill Wade	1920	200	--	--	Kea	2,179	--	--	C,W	S	
901	J.E. Sentell	Sears Sentell	--	--	--	--	Kea	2,178	--	--	C,W	S	
902	do	do	1959	320	--	--	Kea	2,295	294.3	Jan. 30, 1969	C,W	S	
903	do	do	--	--	--	--	Kea	2,183	--	--	C,W	S	
* 904	Mrs. Myrtle D. Sellman	Bill Wade	--	290	--	--	Kea	2,240	--	--	C,W	S	Well deepened in 1954.
905	do	do	1960	400	--	--	Kea	2,310	314.5	Mar. 4, 1969	C,W	S	
* 39-101	Ray Parker	Jamie Parker	--	--	--	--	Kea	2,190	--	--	C,W	S	
* 102	do	do	--	--	--	--	Kea	2,090	76.2	Jan. 22, 1969	C,W	D,S	
103	Williamson County School Land	do	--	--	--	--	Kea	2,071	66.3	do	C,W	S	
* 104	Ray Parker	do	--	--	--	--	Kea	2,159	77.6	do	C,W	S	
203	do	do	--	--	--	--	Kea	2,223	148.1	do	C,W	S	

See footnote at end of table.

Table 1.--Records of Wells and Springs in Sutton County--Continued

WELL	OWNER	LESSEE OR TENANT	DATE COM- PLET- ED	DEPTH OF WELL (FT)	CASING		WATER- BEAR- ING UNIT	ALTITUDE OF LAND SURFACE (FT)	WATER LEVEL		METHOD OF LIFT	USE OF WATER	REMARKS
					DIAM- ETER (IN)	DEPTH (FT)			BELOW LAND- SURFACE DATUM (FT)	DATE OF MEASUREMENT			
55-39-204	Ray Parker	Jamie Parker	--	--	--	--	Kea	2,160	148.5	Jan. 22, 1969	C,W	D,S	
* 205	do	do	--	52	--	--	Kea	2,018	35.8	do	C,W	D,S	
* 302	Margaret Schwiening	Curt Schwiening	1940	40	6	--	Qa1	1,990	17.75	Jan. 9, 1969	S,E	D	
303	do	do	1965	125	--	--	Kea,Kt	1,998	--	--	C,W	S	
401	James Lee Foster, Jr., et al.	G.T. Rode	1937	160	--	--	Kea	2,092	--	--	C,W	S	
402	do	do	1890	100	--	--	Kea	2,040	--	--	C,W	S	Well at roadside park.
* 403	do	--	1934	--	--	--	Kea	2,090	--	--	C,W,E	P	Ft. Terrett Station well.
404	Williamson County School Land	G.T. Rode	1935	140	--	--	Kea	2,096	97.9	Feb. 28, 1969	C,W	S	
405	James Lee Foster, Jr., et al.	do	1899	160	--	--	Kea	2,100	--	--	C,W	D,S	
501	Ray Parker	Jamie Parker	--	--	--	--	Kea	2,190	189.5	Jan. 22, 1969	C,W	S	
502	James Lee Foster, Jr., et al.	G.T. Rode	--	150	--	--	Kea	2,131	118.6	Feb. 27, 1969	C,W	S	
* 503	do	do	1939	290	--	--	Kea	2,195	--	--	C,W,S,E	D,S	
504	do	do	1928	290	--	--	Kea	2,313	--	--	C,W	S	
505	Ray Parker	Jamie Parker	--	Spring	--	--	Kea	2,050	--	--	--	--	Reported to flow only after a rain.
601	J.P. Rieck, et al.	--	1948	200	--	--	Kea	2,205	204.5	Feb. 4, 1969	C,W	S	
602	do	--	1955	250	--	--	Kea	2,220	--	--	S,E	D	
* 603	do	--	--	--	--	--	Kea	2,280	265.3	Feb. 4, 1969	C,W	Irr	
701	G.T. Rode, et al.	--	1917	210	--	--	Kea	2,138	134.7	Feb. 28, 1969	C,W	S	
* 702	do	--	1914	250	--	--	Kea	2,210	--	--	C,W,S,E	D,S	
703	James Lee Foster, Jr., et al.	G.T. Rode	1928	--	--	--	Kea	2,180	159.3	Feb. 27, 1969	C,W	S	
704	do	do	1940	290	--	--	Kea	2,315	--	--	C,W	S	
705	G.T. Rode, et al.	--	1949	262	8	10	Kea	2,170	168.6	Feb. 28, 1969	N	N	Abandoned livestock well.

See footnote at end of table.

Table 1.--Records of Wells and Springs in Sutton County--Continued

WELL	OWNER	LESSEE OR TENANT	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)			BELOW LAND-SURFACE DATUM (FT)	DATE OF MEASUREMENT			
55-39-801	H.W. and J.P. Rieck, et al.	--	--	300	--	--	Kea	2,313	272.9	Jan. 31, 1969	C,W	S	
* 802	do	--	1963	250	--	--	Kea	2,329	--	--	S,E	S	
803	James Lee Foster, Jr., et al.	G.T. Rode	1928	290	--	--	Kea	2,316	285.4	Feb. 27, 1969	C,W	S	
901	H.W. and J.P. Rieck, et al.	--	1958	248	--	--	Kea	2,245	--	--	C,W	S	
40-403	J.P. Rieck, et al.	--	--	175	--	--	Kea	2,170	153.5	Feb. 4, 1969	C,W	S	
* 41-201	B.G. Hunnicutt	John Hunnicutt	1884	144	--	--	Kea	1,897	109.6	do	C,W	D,S	
* 202	H.M. Phillips, Jr.	--	--	163	--	--	Kea	1,910	102.8	Feb. 5, 1969	C,W	S	
* 203	do	--	--	159	5	--	Kea	1,924	120.7	do	S,E	S	
301	Marjory R. Johnson	Lea Roy Aldwell	1930	136	--	--	Kea	1,930	127.3	Dec. 11, 1968	C,W	S	
* 302	do	do	--	166	--	--	Kea	1,935	146.3	Dec. 10, 1968	C,W	S	
* 303	Mrs. W.R. Aldwell Estate	do	--	191	5	--	Kea	1,959	162.2	do	C,W	S	
* 405	T. Savell and Velma Hunt	Bryan Hunt	1927	183	--	--	Kea	1,941	175.1	Feb. 12, 1969	C,W	S	
* 501	Bertha Glasscock	V.J. Glasscock	--	131	8	--	Kea	1,893	121.8	do	C,W	S	
* 502	H.M. Phillips, Jr.	--	1927	217	--	--	Kea	1,935	152.6	Feb. 5, 1969	C,W	S	Estimated yield 2 to 3 gpm.
* 601	H.M. Phillips	John Hunnicutt	1931	300	--	--	Kea	1,996	--	--	C,W	S	
* 602	Bertha Glasscock	J.S. Glasscock	1940	250	--	--	Kea	2,045	--	--	C,W	S	
* 42-101	Mrs. W.R. Aldwell Estate	Lea Roy Aldwell	--	--	8	--	Kea	2,048	228.7	Dec. 11, 1968	C,W	S	
* 102	Bertha Glasscock	J.S. Glasscock	1909	260	--	--	Kea	2,015	212.9	Mar. 3, 1969	C,W	S	
103	do	do	1940	250	--	--	Kea	2,036	203.6	Mar. 6, 1969	C,W	N	Unused livestock well.
201	Mrs. W.R. Aldwell Estate	Lea Roy Aldwell	1917	--	--	--	Kea	2,022	--	--	C,W	S	
301	Mrs. Stella Keene	--	--	371	--	--	Kea	2,219	355.8	Jan. 30, 1969	C,W	S	

See footnote at end of table.

Table 1.--Records of Wells and Springs in Sutton County--Continued:

WELL	OWNER	LESSEE OR TENANT	DATE COM- PLET- ED	DEPTH OF WELL (FT)	CASING		WATER- BEAR- ING UNIT	ALTITUDE OF LAND SURFACE (FT)	WATER LEVEL		METHOD OF LIFT	USE OF WATER	REMARKS
					DIAM- ETER (IN)	DEPTH (FT)			BELOW LAND- SURFACE DATUM (FT)	DATE OF MEASUREMENT			
55-42-302	Mrs. Stella Keene	--	--	218	--	--	Kea	2,065	208.4	Jan. 30, 1969	C,W	S	
* 303	Duke Wilson	--	1940	370	--	--	Kea	2,188	345.3	Jan. 23, 1969	C,W	S	
501	John Cauthorn	--	1957	425	--	--	Kea	2,234	406.2	Jan. 28, 1969	C,W	S	
* 601	Mrs. Stella Keene	--	--	381	6	--	Kea	2,194	350.8	Jan. 30, 1969	--	--	
602	do	--	1957	--	--	--	Kea	2,236	--	--	C,W	S	
603	do	--	1957	--	--	--	Kea	2,139	--	--	C,W	S	
* 701	John Cauthorn	--	--	409	--	--	Kea	2,103	279.7 279.4	Apr. 27, 1961 Jan. 28, 1969	C,W	D,S	
* 43-101	Ida Cauthorn	Dan Cauthorn	1930	400	6	--	Kea	2,156	274.0 273.3	Apr. 27, 1961 Jan. 6, 1969	C,W	S	
* 102	Mrs. Stella Keene	--	--	357	7	--	Kea	2,132	262.6	Jan. 30, 1969	C,W	S	
103	Dan Cauthorn	--	1943	397	--	--	Kea	2,246	358.5	Jan. 6, 1969	C,W	S	
* 201	Mack Cauthorn	--	1924	350	--	--	Kea	2,121	244.2	Jan. 21, 1969	C,W	S	
* 202	do	--	1908	255	--	--	Kea	2,120	242.7	do	C,E	D,S	
203	do	--	1963	405	--	--	Kea	2,119	244.4	do	C,W	S	
204	Ida Cauthorn	Mack Cauthorn	1954	350	--	--	Kea	2,187	--	--	C,W	S	
301	Mack Cauthorn	--	1959	300	--	--	Kea	2,159	258.7	Jan. 21, 1969	C,W	S	
* 302	do	--	1954	369	--	--	Kea	2,244	348.3	do	C,W	S	
303	do	--	1961	300	--	--	Kea	2,138	--	--	C,W	S	
* 401	Dan Cauthorn	--	1967	482	9-1/4	--	Kea	2,263	355 388.0	Dec. 8, 1967 Jan. 7, 1969	S,E	S	
402	do	--	1958	361	--	--	Kea	2,164	316.0	Jan. 6, 1969	C,W	S	
* 501	do	--	1950	410	--	--	Kea	2,181	387.7	Apr. 27, 1961	C,W	S	
502	do	--	--	--	--	--	Kea	2,207	--	--	C,W	D,S	
* 503	J.A. Cauthorn	Rip Ward	1900	400	--	--	Kea	2,279	382.8	Dec. 19, 1968	C,W	S	
602	do	do	1967	395	--	--	Kea	2,230	325.8	Dec. 20, 1968	C,W	S	
* 603	Mack Cauthorn	--	1924	--	--	--	Kea	2,223	321.3	Jan. 21, 1969	C,W	S	
* 44-101	W.R. Cusenbary	--	1940	227	--	--	Kea	2,119	211.3	Jan. 10, 1969	C,W	S	
102	do	--	1948	220	12	2	Kea	2,108	--	--	N	--	Recharge well.

See footnote at end of table.

Table 1.--Records of Wells and Springs in Sutton County--Continued

WELL	OWNER	LESSEE OR TENANT	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)			BELOW LAND-SURFACE DATUM (FT)	DATE OF MEASUREMENT			
55-44-201	W.R. Cusenbary	--	1948	218	12	2	Kea	2,126	211.2 211.4	Apr. 13, 1961 Jan. 10, 1969	N	--	Recharge well.
* 202	do	--	--	306	--	--	Kea	2,146	233.7	do	S,E	D,S	
203	do	--	--	299	--	--	Kea	2,159	240.9	do	C,W	S	
204	do	--	1930	280	4	--	Kea	2,191	268	do	C,W	S	
205	do	--	--	251	--	--	Kea	2,144	194.9	do	C,W	S	
206	do	--	1948	230	--	--	Kea	2,131	--	--	N	--	Recharge well.
* 401	J.A. Cauthorn	Rip Ward	--	325	--	--	Kea	2,179	266.0	Dec. 19, 1968	C,W	S	
402	Ben H. Cusenbary	--	1929	320	--	--	Kea	2,185	271.6	Jan. 17, 1969	C,W	S	
403	Mrs. Hattie C. Epps	Ben H. Cusenbary	1957	379	--	--	Kea	2,247	335.2	do	C,W	S	
501	do	do	1882	247	--	--	Kea	2,173	--	--	C,E	D,S	
502	Ben H. Cusenbary	--	1943	272	--	--	Kea	2,167	242.0	Jan. 17, 1969	C,W	S	
503	do	--	1889	258	--	--	Kea	2,143	257	do	C,W	D,S	
* 504	do	--	1965	270	--	--	Kea	2,143	258	do	S,E	D,S	
45-101	Lin Hicks, et al.	--	1900	--	--	--	Kea	2,288	322.0 323.2	May 3, 1961 Jan. 22, 1969	C,W	S	
201	do	--	1944	--	--	--	Kea	2,272	--	--	C,W	D,S	
202	do	--	--	--	--	--	Kea	2,276	--	--	C,W	S	
203	do	--	1967	--	--	--	Kea	2,270	--	--	S,E	S	
* 204	do	--	1922	300	--	--	Kea	2,228	271.4	Jan. 22, 1969	C,W	S	
301	J.M. Vanderstucken	Lin Hicks	--	300	--	--	Kea	2,263	282.6 284.7	May 3, 1961 Jan. 21, 1969	N	N	Abandoned industrial well.
* 302	Lin Hicks, et al.	--	--	--	--	--	Kea	2,198	--	--	S,E	D,S	
303	J.M. Vanderstucken	George Brockman	1965	--	--	--	Kea	2,265	206.8	Jan. 21, 1969	N	N	Abandoned industrial well.
304	do	Lin Hicks	1938	--	--	--	Kea	2,272	--	--	S,E	S	
305	do	do	1965	--	10-1/2	--	Kea	2,268	--	--	S,E	S	
* 306	Duke Wilson	--	--	--	--	--	Kea	2,190	196.1	Jan. 24, 1969	C,W	S	
* 46-102	J.M. Vanderstucken	George Brockman	--	--	--	--	Kea	2,195	206.9	Jan. 21, 1969	C,W	S	

See footnote at end of table.

Table 1.--Records of Wells and Springs in Sutton County--Continued

WELL	OWNER	LESSEE OR TENANT	DATE COM- PLET- ED	DEPTH OF WELL (FT)	CASING		WATER- BEAR- ING UNIT	ALTITUDE OF LAND SURFACE (FT)	WATER LEVEL		METHOD OF LIFT	USE OF WATER	REMARKS
					DIAM- ETER (IN)	DEPTH (FT)			BELOW LAND- SURFACE DATUM (FT)	DATE OF MEASUREMENT			
55-46-103	J.M. Vanderstucken	George Brockman	--	350	--	--	Kea	2,285	--	--	C,W	S	
* 104	George Brockman	--	1967	356	--	--	Kea	2,290	319.5	Jan. 21, 1969	C,W	S	
* 105	do	--	--	235	--	--	Kea	2,204	228.9	do	C,W	S	
201	do	--	--	288	8-1/2	--	Kea	2,262	279.4 283.3	May 3, 1961 Jan. 21, 1969	N	N	Abandoned industrial well.
202	do.	--	1943	298	--	--	Kea	2,263	269.7	do	C,W	S	
203	do	--	1937	350	--	--	Kea	2,288	308.3	do	S,E	D,S	
* 204	do	--	1963	358	--	--	Kea	2,305	--	--	C,W	S	
* 205	Mrs. Fannie E. Wade	Bill Wade	1910	290	--	--	Kea	2,198	218.7	Feb. 28, 1969	C,W	D,S	
206	Mrs. Myrtle D. Sellman	do	1963	303	--	--	Kea	2,220	--	--	C,W	S	
301	Mrs. M.B. Sawyer Estate	Edwin Sawyer	--	--	--	--	Kea	2,197	194.6	Jan. 24, 1969	C,W	S	
302	Richard T. Sellman	Bill Wade	1946	400	--	--	Kea	2,316	325.4	Mar. 4, 1969	C,W	S	
* 601	Mrs. M.B. Sawyer Estate	Edwin Sawyer	--	--	--	--	Kea	2,299	--	--	C,W	D,S	
47-101	do	do	--	--	--	--	Kea	2,205	--	--	C,W	S	
102	do	do	--	--	--	--	Kea	2,188	--	--	C,W	S	
* 103	do	do	--	--	--	--	Kea	2,315	296.3	Jan. 24, 1969	C,W	S	
104	do	do	--	--	--	--	Kea	2,219	207.3	do	C,W	S	
* 105	do	do	--	--	--	--	Kea	2,265	--	--	C,E	D,S	
* 201	Joe E. Strube	--	--	--	--	--	Kea	2,327	325.9 319.5	May 5, 1961 Jan. 24, 1969	C,W	S	
* 301	J.P. Rieck, et al.	--	1890	300	--	--	Kea	2,312	302.3	Jan. 31, 1969	C,E	S	
* 302	Otis W. Cardwell, et al.	W.W. Cardwell	1900	350	--	--	Kea	2,323	316.3	Feb. 25, 1969	C,W	S	
401	Mrs. M.B. Sawyer Estate	Edwin Sawyer	--	--	--	--	Kea	2,305	--	--	S,E	S	
402	do	do	1950	400	8-1/2	--	Kea	2,326	332.0	Jan. 23, 1969	C,W	S	

See footnote at end of table.

Table 1.--Records of Wells and Springs in Sutton County--Continued

WELL	OWNER	LESSEE OR TENANT	DATE COM- PLET- ED	DEPTH OF WELL (FT)	CASING		WATER- BEAR- ING UNIT	ALTITUDE OF LAND SURFACE (FT)	WATER LEVEL		METHOD OF LIFT	USE OF WATER	REMARKS
					DIAM- ETER (IN)	DEPTH (FT)			BELOW LAND- SURFACE DATUM (FT)	DATE OF MEASUREMENT			
55-47-601	Otis W. Cardwell	W.W. Cardwell	1948	355	--	--	Kea	2,323	319.9	Feb. 25, 1969	C,W	S	
602	Henry M. Cardwell, et al.	do	1950	300	--	--	Kea	2,296	303.0	do	C,W	S	
48-104	Otis W. Cardwell	do	1900	200	--	--	Kea	2,191	189.9	do	C,W	S	
* 401	do	do	1900	350	--	--	Kea	2,302	301.0	do	C,W	D,S	

* For chemical analysis of water, see Table 2.

Table 2.--Chemical Analyses of Water From Wells and Springs in Sutton County

Analyses are grouped in this table by water-bearing unit. The analyses were performed by the Texas State Department of Health except as indicated by footnote. The results are in milligrams per liter except percent sodium, specific conductance, pH, and sodium-adsorption ratio.

WELL	OWNER	DEPTH OF WELL	DATE OF COLLECTION	SILICA (SiO ₂)	CALCIUM (Ca)	MAGNESIUM (Mg)	SODIUM (Na)	BICARBONATE (HCO ₃)	SULFATE (SO ₄)	CHLORIDE (Cl)	FLUORIDE (F)	NITRATE (NO ₃)	DISSOLVED SOLIDS	TOTAL HARDNESS AS CaCO ₃	PERCENT SODIUM	SPECIFIC CONDUCTANCE (MICROMHOS AT 25°C)	pH	SODIUM ADSORPTION RATIO (SAR)
<u>Edwards and Associated Limestones</u>																		
55-17-603	William Allison	240	Mar. 5, 1969	17	69	20	12	281	16	17	0.7	9.5	300	255	9.6	512	7.5	0.3
801	T.D. Beasley	310	Feb. 27, 1969	9	47	24	12	251	12	16	.7	.4	244	219	10.4	435	7.8	.3
802	do	327	do	14	51	26	10	268	8	15	.5	2.0	259	232	8.5	449	7.6	.3
803	do	330	do	13	51	24	9	261	7	12	.5	4.4	249	226	8	435	7.8	.3
902	William Allison	--	do	17	71	20	13	278	17	20	.6	11.0	307	259	9.6	520	7.6	.3
903	do	300	Mar. 5, 1969	18	75	19	14	285	17	24	.7	11.5	320	267	10.0	544	7.5	.4
904	do	--	do	17	75	20	17	299	17	20	.7	12.5	327	268	12.2	553	7.6	.5
18-401	E.S. Mayer Trust and Ernestine Mayer	360	Dec. 12, 1968	15	64	19	11	256	17	17	.8	11.5	272	237	9.2	475	7.6	.3
402	do	165	do	16	64	18	11	257	16	16	.9	8.6	277	235	9.3	471	7.6	.3
501	do	390	do	14	61	21	12	264	12	20	.8	6.5	278	240	10.1	485	7.6	.4
601	do	267	do	14	62	10	13	255	11	24	.6	11.5	281	233	11.1	488	7.7	.4
701	Texas Highway Department	322	Mar. 6, 1967	16	64	18	13	261	19	21	.9	11	291	236	10.6	485	7.5	.4
702	E.S. Mayer Trust and Ernestine Mayer	186	Dec. 12, 1968	16	70	18	12	281	16	19	.6	13.0	298	252	9.0	520	7.5	.3
901	Mrs. Rose Thorp, et al.	379	Feb. 12, 1969	17	65	19	12	266	12	16	.7	13.0	286	239	9.5	477	7.6	.3
19-402	do	383	do	15	53	25	13	265	13	19	1.5	11.0	281	238	10.8	482	7.7	.4
502	Phillip Pring, Jr.	325	Feb. 13, 1969	13	55	24	7	272	9	10	.6	4.1	257	238	5.9	442	7.7	.2
701	Mrs. Rose Thorp, et al.	317	Feb. 12, 1969	13	63	20	8	273	9	11	.4	9.5	268	241	6.4	461	7.6	.2
702	E.M. DeBerry Estate	369	Jan. 9, 1969	8	64	19	8	273	11	12	.3	.4	256	240	6.6	454	7.6	.2
703	Mrs. Rose Thorp, et al.	374	Feb. 12, 1969	14	64	21	8	373	8	11	.3	8.6	269	244	6.3	457	7.6	.2
803	Bill Tittle	350	Feb. 13, 1969	14	52	25	8	268	8	10	.4	5.0	254	232	7.0	447	7.9	.2
903	Ben F. Meckel, et al.	300	do	16	58	23	12	271	12	21	.5	5.0	282	242	9.3	485	7.6	.3
20-503	James T. Hunt	--	May 27, 1965	15	47	29	12	262	10	18	1.1	1.0	395	232	10.1	479	7.5	.4
601	Mrs. Pauline McIntosh	350	June 23, 1965	11	69	17	14	237	37	21	1.0	18	305	242	11.4	513	7.5	.4
701	James T. Hunt	--	May 27, 1965	14	45	30	12	257	11	18	.5	9	397	233	10.4	472	7.7	.4

See footnotes at end of table.

Table 2.--Chemical Analyses of Water From Wells and Springs in Sutton County--Continued

WELL	OWNER	DEPTH OF WELL	DATE OF COLLECTION	SILICA (SiO ₂)	CALCIUM (Ca)	MAGNESIUM (Mg)	SODIUM (Na)	BICARBONATE (HCO ₃)	SULFATE (SO ₄)	CHLORIDE (Cl)	FLUORIDE (F)	NITRATE (NO ₃)	DISSOLVED SOLIDS	TOTAL HARDNESS AS CaCO ₃	PERCENT SODIUM	SPECIFIC CONDUCTANCE (MICROMHOS AT 25°C)	pH	SODIUM ADSORPTION RATIO (SAR)	
<u>Edwards and Associated Limestones</u>																			
55-20-802	James T. Hunt	--	May 27, 1965	14	57	26	12	253	28	17	2.0	7	416	251	9.5	507	7.5	0.3	
805	do	--	do	14	79	13	6	294	9	17	.3	13.5	446	270	4.8	525	7.3	.2	
806	Allie Askew	350	Feb. 6, 1969	15	59	21	13	260	13	20	1.1	7.2	277	235	10.8	478	7.8	.4	
902	do	350	do	16	58	21	12	256	10	16	.6	8.0	268	230	9.8	457	7.4	.3	
21-403	Mrs. Pauline McIntosh	300	June 23, 1965	10	57	21	7	265	11	11	.5	5	253	230	6.1	451	7.7	.2	
601	Clara Allison	321	Jan. 28, 1969	12	53	27	9	287	4	15	.6	< .4	258	243	7.6	467	7.5	.3	
602	Henry Walker Estate	175	Jan. 8, 1969	14	85	14	7	303	7	14	.3	7.2	297	270	5.3	517	7.3	.2	
702	Bobbie Fawcett, et al. and R.A. Halbert	300	Dec. 17, 1968	10	66	22	8	301	8	12	.3	< .4	274	254	6.1	486	7.4	.2	
801	R.A. Halbert	300	do	14	48	20	12	222	12	16	2.4	5.0	238	203	11.0	420	7.4	.4	
803	Clara Allison	215	Jan. 28, 1969	14	70	19	10	282	8	20	< .1	7.2	287	253	8.2	440	7.5	.3	
902	do	267	do	13	54	19	8	243	7	13	.4	4.4	237	214	7.8	420	7.5	.3	
22-501	Carl J. Cahill	385	June 25, 1965	9	50	29	9	255	27	13	2.2	< .4	264	243	7.6	476	7.7	.3	
602	C.T. Jones, Sr.	298	Jan. 16, 1969	14	76	13	9	278	9	16	.4	2.6	277	246	7.2	480	7.4	.2	
603	do	294	do	15	68	15	10	257	12	19	.5	4.4	270	232	8.8	470	7.5	.3	
604	E.L. Hardgrave, Jr., et al.	282	Jan. 10, 1969	13	47	23	13	238	9	21	.7	2.6	247	212	11.5	438	7.8	.4	
701	John W., Jr. and James R. McDermott	300	Jan. 28, 1969	7	60	21	9	279	4	18	.3	.5	253	237	7.4	466	7.3	.3	
801	C.T. Jones, Sr.	284	Jan. 16, 1969	14	49	25	11	243	20	17	1.7	2.3	259	226	9.2	455	7.5	.3	
802	do	383	do	12	53	27	17	254	22	27	.8	9.5	294	243	13.5	515	7.6	.5	
901	Mrs. Dantes Reiley	298	Jan. 9, 1969	14	47	28	18	248	17	31	.8	9.5	288	234	14.5	445	7.6	.5	
1/ 23-401	Ned Dunbar, et al.	303	Apr. 26, 1961	14	52	20	* 8.1	238	7.0	15	.4	4.8	238	212	7	430	6.9	.2	
401	do	303	Jan. 17, 1969	13	68	16	8	271	7	15	.2	6.5	267	237	6.7	462	7.7	.2	
402	E.J. Hardgrave, Jr., et al.	267	Jan. 10, 1969	13	52	26	9	254	18	16	.9	2.6	263	235	7.8	405	7.8	.3	
503	Ned Dunbar, et al.	198	Jan. 17, 1969	13	59	19	7	257	7	11	.2	5.0	247	225	6.6	430	7.6	.2	
901	Leonard Gibbs	318	Jan. 22, 1969	10	72	16	7	285	10	13	.3	< .4	268	246	5.7	469	7.6	.2	
902	do	140	do	13	76	14	6	262	9	13	.1	20.5	281	249	5.3	469	7.5	.2	

See footnotes at end of table.

Table 2.--Chemical Analyses of Water From Wells and Springs in Sutton County--Continued

WELL	OWNER	DEPTH OF WELL	DATE OF COLLECTION	SILICA (SiO ₂)	CALCIUM (Ca)	MAGNESIUM (Mg)	SODIUM (Na)	BICARBONATE (HCO ₃)	SULFATE (SO ₄)	CHLORIDE (Cl)	FLUORIDE (F)	NITRATE (NO ₃)	DISSOLVED SOLIDS	TOTAL HARDNESS AS CaCO ₃	PERCENT SODIUM	SPECIFIC CONDUCTANCE (MICROMHOS AT 25°C)	pH	SODIUM ADSORPTION RATIO (SAR)
<u>Edwards and Associated Limestones</u>																		
55-23-904	Ned Dunbar, et al.	220	Jan. 16, 1969	13	60	20	8	267	7	13	0.2	2.6	255	233	6.6	445	7.6	0.2
24-707	Leonard Gibbs	172	Jan. 24, 1969	12	67	20	8	281	10	17	.3	4.4	276	252	6.7	480	7.4	.2
25-201	Hudspeth Memorial Hospital	434	Feb. 12, 1969	15	52	21	13	246	10	19	.4	5.0	256	217	111.6	447	7.6	.4
301	E.S. Mayer Trust and Ernestine Mayer	248	Dec. 13, 1968	14	83	26	9	370	6	15	.6	.8	337	314	5.6	575	7.3	.2
502	Hudspeth Memorial Hospital	450	Feb. 12, 1969	14	49	20	11	228	12	15	.4	4.4	237	202	10.2	415	7.4	.3
503	T.D. Beasley	210	Feb. 3, 1969	15	54	23	8	268	7	11	.3	5.6	256	230	6.9	442	7.7	.2
601	E.S. Mayer Trust and Ernestine Mayer	185	Dec. 13, 1968	15	57	23	9	266	14	17	.7	7.2	274	237	8.0	463	7.6	.3
602	Hudspeth Memorial Hospital	261	Feb. 12, 1969	15	73	16	7	283	7	11	.2	7.2	275	248	5.7	470	7.5	.2
604	do	--	do	16	69	22	11	296	12	16	.5	6.5	300	263	8.2	515	7.5	.3
1/ 901	Whitehead and Brown	202	July 28, 1960	16	70	19	* 11	274	14	18	.7	12	296	252	9	504	6.9	.3
901	do	202	Jan. 30, 1969	14	73	21	13	281	15	23	.7	11.5	310	267	9.4	532	7.6	.3
904	do	179	Jan. 31, 1969	16	75	20	11	295	14	20	.7	8.0	310	270	8.4	527	7.5	.3
26-103	E.S. Mayer Trust and Ernestine Mayer	405	Dec. 13, 1968	9	70	18	5	273	13	14	.7	3.5	267	249	4.1	470	7.4	.1
203	Mrs. M.H. Mayer and E.S. Mayer	410	Dec. 17, 1968	14	75	13	11	270	12	17	.9	6.5	283	240	9.3	485	7.5	.3
301	A. Simmons	280	Feb. 26, 1969	15	61	18	9	255	9	13	.6	7.2	258	227	8.3	448	7.6	.3
401	E.S. Mayer Trust and Ernestine Mayer	165	Dec. 13, 1968	14	71	19	16	360	10	19	.4	.4	322	257	8.9	605	7.2	.3
501	Stanley B. Mayfield II, et al.	--	Jan. 29, 1969	17	65	18	12	266	13	17	.7	8.6	283	238	9.7	482	7.4	.3
505	do	267	Jan. 29, 1969	16	53	21	10	253	11	15	.6	6.5	258	219	9.3	445	7.7	.3
507	E.S. Mayer Trust and Ernestine Mayer	390	Dec. 13, 1968	17	41	27	6	233	14	16	1.0	3.5	241	213	6.2	421	7.9	.2
602	Halbert Estate and Fawcett, et al.	500	Feb. 19, 1969	15	51	24	11	261	11	16	.6	4.4	261	227	9.5	456	7.4	.3
801	Halbert Estate and Fawcett	500	do	15	52	25	9	267	14	13	.6	5.6	266	234	7.5	455	7.4	.3
802	do	550	do	15	49	26	10	259	10	15	.6	10.0	263	230	8.6	455	7.7	.3

See footnotes at end of table.

Table 2.--Chemical Analyses of Water From Wells and Springs in Sutton County--Continued

WELL	OWNER	DEPTH OF WELL	DATE OF COLLECTION	SILICA (SiO ₂)	CALCIUM (Ca)	MAGNESIUM (Mg)	SODIUM (Na)	BICARBONATE (HCO ₃)	SULFATE (SO ₄)	CHLORIDE (Cl)	FLUORIDE (F)	NITRATE (NO ₃)	DISSOLVED SOLIDS	TOTAL HARDNESS AS CaCO ₃	PERCENT SODIUM	SPECIFIC CONDUCTANCE (MICROMHOS AT 25°C)	pH	SODIUM ADSORPTION RATIO (SAR)	
<u>Edwards and Associated Limestones</u>																			
55-26-902	Halbert Estate and Fawcett, et al.	400	Feb. 19, 1969	15	50	23	12	256	12	15	0.8	5.6	260	221	10.9	454	7.6	0.4	
903	do	500	do	8	56	38	11	357	4	18	1.5	< .4	309	298	7.5	566	7.4	.3	
27-103	E.M. DeBerry Estate	--	Jan. 30, 1969	13	53	25	10	261	12	15	.3	5.0	261	233	8.5	456	7.6	.3	
104	A. Simmons	280	Feb. 26, 1969	16	57	24	12	279	9	16	.6	5.6	278	242	9.3	478	7.6	.3	
1/ 202	E1 Paso Natural Gas Company	485	May 24, 1960	12	47	22	* 15	248	12	14	.4	5.3	250	208	14	444	6.9	.5	
203	do	485	Jan. 9, 1969	14	50	23	11	255	10	13	.3	5.0	251	220	10.0	432	7.6	.3	
206	E.M. DeBerry Estate	341	do	14	59	18	6	257	6	9	.2	7.2	245	223	5.9	424	7.6	.2	
301	do	219	do	15	68	19	8	281	10	12	.3	6.5	277	247	6.6	473	7.5	.2	
402	Halbert Estate and Fawcett, et al.	355	Feb. 18, 1969	13	50	26	7	262	11	14	.4	3.5	254	230	6.5	442	7.5	.2	
501	Rip Ward	260	Dec. 19, 1968	14	63	16	6	255	9	11	.3	6.5	251	225	5.9	426	7.6	.2	
602	City of Sonora	303	Dec. 11, 1968	14	78	13	8	285	10	14	.5	8.0	286	251	6.4	486	7.9	.2	
604	do	204	Mar. 17, 1959	--	76	14	5	287	10	13	.3	.7	287	248	--	478	7.6	--	
604	do	204	Dec. 11, 1968	14	67	19	8	284	10	13	.5	8.6	280	248	6.4	482	7.9	.2	
613	Rip Ward	215	Dec. 19, 1968	15	69	27	12	300	16	27	.4	11.5	316	282	8.3	560	7.3	.3	
702	E.E. Sawyer, Jr., et al.	315	Dec. 18, 1968	12	51	20	12	245	12	14	.5	2.6	245	210	11.0	433	7.8	.4	
901	J.D. Fields Trust	340	Dec. 20, 1968	13	66	17	6	268	9	11	.4	5.0	259	237	5.6	442	7.5	.2	
28-103	W.L. Miers	330	Dec. 18, 1968	10	70	20	11	278	12	25	.6	< .4	286	257	8.5	508	7.7	.3	
105	do	--	do	13	60	19	8	260	11	13	.6	5.0	258	230	6.7	450	7.5	.2	
106	do	300	Dec. 18, 1968	14	15	23	9	267	10	15	.7	6.5	267	237	7.4	465	7.6	.3	
109	Mrs. Adah Cauthorn	370	Feb. 25, 1969	14	54	22	13	250	12	19	1.1	6.5	265	227	10.8	457	7.6	.4	
301	Allie Askew	360	Feb. 11, 1969	15	55	25	13	257	18	20	1.1	8.0	281	242	10.6	491	7.8	.4	
401	Mrs. Stella Keene	383	Jan. 29, 1969	13	53	23	10	253	8	16	.2	7.2	254	225	9.1	446	7.7	.3	
502	Clara Allison	265	Feb. 11, 1969	15	53	23	12	251	12	18	.9	7.2	264	229	10.2	464	7.8	.3	
601	J.D. Fields Trust	300	Feb. 26, 1969	14	52	26	15	249	26	21	1.1	6.5	284	236	12.1	498	8.2	.4	
702	do	227	Dec. 20, 1968	14	61	18	10	255	10	15	.8	6.5	260	228	8.6	454	7.6	.3	

See footnotes at end of table.

Table 2.--Chemical Analyses of Water From Wells and Springs in Sutton County--Continued

WELL	OWNER	DEPTH OF WELL	DATE OF COLLECTION	SILICA (SiO ₂)	CALCIUM (Ca)	MAGNESIUM (Mg)	SODIUM (Na)	BICARBONATE (HCO ₃)	SULFATE (SO ₄)	CHLORIDE (Cl)	FLUORIDE (F)	NITRATE (NO ₃)	DISSOLVED SOLIDS	TOTAL HARDNESS AS CaCO ₃	PERCENT SODIUM	SPECIFIC CONDUCTANCE (MICROMHOS AT 25°C)	pH	SODIUM ADSORPTION RATIO (SAR)
<u>Edwards and Associated Limestones</u>																		
55-28-901	John, Jr. and James R. McDermott	350	Jan. 30, 1969	16	54	28	17	279	14	26	0.8	5.6	299	252	12.5	520	7.6	0.5
29-105	R.A. Halbert	330	Dec. 17, 1968	15	46	26	15	243	13	24	1.0	6.5	266	222	12.8	477	7.6	.4
202	do	281	do	15	51	27	12	256	17	20	1.6	9.5	280	241	9.7	476	7.6	.3
203	Lea Allison	315	Jan. 28, 1969	14	47	27	10	253	11	19	.7	6.5	260	231	8.9	405	7.5	.2
302	G.E. Allison	290	Feb. 4, 1969	14	63	18	9	261	10	16	.3	9.5	268	233	7.5	460	7.5	.2
501	Lea Allison	233	Jan. 23, 1969	14	73	23	11	318	10	18	.3	4.4	309	279	7.9	475	7.4	.3
601	Williamson County School Land	203	do	14	81	19	15	311	13	26	.2	3.5	325	279	10.2	553	7.4	.4
602	do	246	do	13	66	20	12	276	12	19	.4	3.5	282	245	9.6	435	7.5	.3
702	S.H. Allison	350	Jan. 30, 1969	15	49	25	13	249	15	21	1.1	5.6	267	225	11.4	466	7.8	.4
801	Lea Allison	230	Jan. 24, 1969	13	70	23	19	306	12	30	.4	3.5	321	269	13.5	495	7.5	.5
901	do	250	Jan. 23, 1969	13	70	22	8	304	8	13	.3	2.6	286	264	5.9	438	7.4	.2
30-101	Jack Allison and Margaret Kidd	--	Feb. 4, 1969	16	70	12	11	229	12	19	.4	20.5	274	225	9.5	460	7.7	.3
303	Elmer Wilson	320	Jan. 27, 1969	19	63	44	18	355	45	21	1.2	.5	387	338	10.6	657	7.3	.4
401	Rothkin Roy and R.L. Hardgrave, et al.	217	Jan. 15, 1969	11	60	22	11	272	8	17	.5	< .4	264	238	8.8	466	7.6	.3
402	R.L. Hardgrave, et al.	196	do	13	51	24	10	253	11	18	1.1	3.5	256	227	9.0	447	7.6	.3
501	do	164	do	14	61	20	9	262	9	15	.5	7.2	265	237	7.4	460	7.4	.3
502	Williamson County School Land	125	Jan. 23, 1969	13	77	18	6	305	10	12	.3	4.4	290	265	5.0	494	7.4	.2
504	J.W. Hardgrave, et al.	175	Jan. 8, 1969	13	63	19	8	265	12	15	.3	5.0	265	235	6.7	456	7.4	.2
505	do	297	do	12	58	21	8	264	10	15	.4	3.5	258	232	6.8	446	7.7	.2
701	Lea Allison	260	Jan. 23, 1969	6	68	20	8	290	8	16	.4	2.6	272	253	6.3	425	7.7	.2
703	Albert Schulz	300	Feb. 27, 1969	16	65	19	7	282	7	10	.3	< .4	263	242	6.2	470	7.3	.2
801	do	--	do	14	68	22	7	301	8	11	.4	5.5	284	261	5.8	502	7.7	.2
901	G.B. Baker	218	Jan. 22, 1969	10	62	27	8	306	10	16	.4	2.0	285	266	6.2	500	7.5	.2

See footnotes at end of table.

Table 2.--Chemical Analyses of Water From Wells and Springs in Sutton County--Continued

WELL	OWNER	DEPTH OF WELL	DATE OF COLLECTION	SILICA (SiO ₂)	CALCIUM (Ca)	MAGNESIUM (Mg)	SODIUM (Na)	BICARBONATE (HCO ₃)	SULFATE (SO ₄)	CHLORIDE (Cl)	FLUORIDE (F)	NITRATE (NO ₃)	DISSOLVED SOLIDS	TOTAL HARDNESS AS CaCO ₃	PERCENT SODIUM	SPECIFIC CONDUCTANCE (MICROMHOS AT 25°C)	pH	SODIUM ADSORPTION RATIO (SAR)	
Edwards and Associated Limestones																			
55-31-101	Elmer Wilson, et al.	249	Jan. 27, 1969	7	62	39	13	372	4	28	0.4	< 0.4	332	315	8.3	613	7.5	0.3	
201	Winnie Joseph	208	do	14	54	24	20	245	35	24	.8	5.3	297	234	15.7	503	7.6	.6	
202	Beatrice Simon	158	Jan. 22, 1969	13	65	23	10	275	8	20	.5	14.5	290	258	8.0	510	7.6	.3	
203	Mrs. M. Luckie	116	do	14	53	33	14	285	32	17	1.8	< .4	305	266	10.4	524	7.8	.4	
303	L. Gibbs	89	do	13	93	14	13	296	12	26	.3	23.0	340	291	8.8	512	7.5	.3	
304	Elmer Wilson	Spring	Jan. 27, 1969	13	109	14	6	382	8	13	< .1	5.0	356	331	4.1	532	7.5	.2	
305	Wesley Sykes	100	Jan. 22, 1969	13	80	22	7	321	9	14	.3	16.0	319	291	5.2	538	7.6	.2	
401	H.R. Jacoby, et al.	224	May 10, 1961	16	54	31	* 13	281	22	24	.5	1.2	300	262	10	534	7.0	.3	
401	do	224	Jan. 8, 1969	14	62	30	13	292	29	24	.9	.8	318	278	9.3	485	7.5	.3	
403	Elmer Wilson	250	Jan. 27, 1969	13	71	24	9	300	17	14	1.0	8.0	305	275	6.8	517	7.6	.2	
502	Margaret Schwiening	141	Jan. 9, 1969	13	58	30	8	306	9	16	.6	< .4	285	268	5.2	507	7.7	.2	
601	do	164	do	13	86	21	8	348	10	12	.6	1.0	323	301	5.4	560	7.5	.2	
602	do	80	do	12	100	17	8	360	9	13	.4	8.6	345	319	5.0	590	7.4	.2	
702	Selma Wyatt	230	Jan. 8, 1969	14	51	28	12	266	19	20	.9	< .4	276	243	9.3	475	7.1	.3	
901	Margaret Schwiening	249	Jan. 9, 1969	11	89	12	7	311	7	12	.5	4.4	296	272	5.6	517	7.5	.2	
33-203	Whitehead and Brown	--	Feb. 4, 1969	16	68	24	9	311	8	14	.2	4.4	296	267	7.0	506	7.6	.3	
204	Jerry Johnson	312	Mar. 12, 1970	10	26	17	531	465	432	330	3.0	< .4	1,580	134	89.5	2,380	7.7	19.5	
302	Stella Sewell, et al.	370	Feb. 4, 1969	14	67	29	10	345	4	16	.6	< .4	307	287	7.0	539	7.4	.3	
303	Gerald Nicks	230	Mar. 6, 1969	14	54	24	8	266	11	13	.5	.8	257	237	6.9	448	7.8	.2	
501	Willie R. Meckel	200	do	14	70	31	12	357	8	20	.5	< .4	332	305	8.0	580	7.5	.3	
502	do	220	Feb. 27, 1969	17	90	30	10	414	4	18	.5	< .4	370	347	6.0	656	7.2	.2	
601	Gerald Nicks, et al.	230	Mar. 6, 1969	17	55	26	10	276	10	15	.8	4.4	274	244	8.1	472	7.6	.3	
801	Mrs. Joe Friend	176	Sept. 13, 1962	12	50	27	18	275	17	21	.6	6	426	238	14.0	495	7.5	.5	
801	do	176	Mar. 12, 1970	16	50	26	15	264	16	16	.7	5.5	276	231	12.3	466	7.9	.4	
803	do	190	Sept. 13, 1962	12	70	16	9	276	11	13	.4	11	418	242	7.6	471	7.4	.3	
803	do	190	Mar. 12, 1970	16	72	19	11	283	15	18	.7	11	302	258	8.3	504	7.4	.3	

See footnotes at end of table.

Table 2.--Chemical Analyses of Water From Wells and Springs in Sutton County--Continued

WELL	OWNER	DEPTH OF WELL	DATE OF COLLECTION	SILICA (SiO ₂)	CALCIUM (Ca)	MAGNESIUM (Mg)	SODIUM (Na)	BICARBONATE (HCO ₃)	SULFATE (SO ₄)	CHLORIDE (Cl)	FLUORIDE (F)	NITRATE (NO ₃)	DISSOLVED SOLIDS	TOTAL HARDNESS AS CaCO ₃	PERCENT SODIUM	SPECIFIC CONDUCTANCE (MICROMHOS AT 25°C)	pH	SODIUM ADSORPTION RATIO (SAR)	
<u>Edwards and Associated Limestones</u>																			
55-33-804	W.H. Karnes, et al.	316	Feb. 12, 1969	14	52	26	15	279	14	17	0.6	2.0	278	239	12.0	437	7.4	0.4	
806	do	--	Feb. 11, 1969	20	78	17	12	295	10	13	.4	12.5	308	264	8.7	510	7.5	.3	
807	do	169	do	18	61	28	18	306	13	17	.4	11.5	317	267	12.7	535	7.6	.5	
901	Marjory R. Johnson	--	Dec. 10, 1968	14	47	26	7	257	8	12	.6	2.6	244	224	6.3	430	7.6	.2	
904	W.H. Karnes, et al.	263	Feb. 11, 1969	7	52	23	6	246	8	10	.3	11.5	239	223	5.1	422	7.7	.2	
34-101	Gerald Nicks	250	Mar. 6, 1969	15	50	23	9	254	10	12	.6	4.4	249	219	8.4	434	7.8	.3	
301	E.E. Sawyer, Jr., et al.	264	Dec. 18, 1968	13	57	18	6	245	8	10	.5	7.2	240	218	5.6	413	7.7	.2	
401	Aldwell Brothers	251	Dec. 10, 1968	9	41	26	6	238	8	16	.4	2.6	226	209	6.3	388	7.6	.2	
402	Gerald Nicks	230	Mar. 6, 1969	16	58	23	8	275	7	13	.4	4.4	264	239	6.5	456	7.7	.2	
503	Aldwell Brothers	267	Dec. 10, 1968	13	51	24	6	257	7	10	.5	5.0	243	227	5.0	421	7.6	.2	
602	Duke Wilson	218	Jan. 23, 1969	13	71	19	10	288	10	18	.3	8.6	292	257	7.7	503	7.6	.3	
703	Aldwell Brothers	132	Dec. 10, 1968	14	75	17	8	290	10	11	.5	6.5	285	258	6.2	490	7.4	.2	
801	do	128	do	16	75	18	8	294	10	13	.4	8.0	293	263	6.1	508	7.3	.2	
903	Duke Wilson	247	Jan. 23, 1969	14	54	30	12	293	19	11	.9	2.6	288	256	9.2	500	7.6	.3	
35-102	E.E. Sawyer, Jr., et al.	--	Dec. 18, 1968	12	78	21	9	327	6	18	.5	< .4	306	281	6.3	537	7.4	.2	
103	Mrs. Velma Shurley	281	Jan. 14, 1969	13	64	31	13	343	11	15	.6	< .4	317	286	8.8	554	7.4	.3	
202	Alice L. Jones	231	Dec. 18, 1968	15	82	19	10	310	12	21	.3	11.0	322	286	6.8	559	7.5	.3	
303	Collier Shurley	--	Jan. 8, 1969	14	52	26	13	266	11	21	.4	5.0	273	238	10.4	469	7.8	.4	
306	do	290	do	15	47	27	12	255	12	18	.5	6.5	264	230	9.8	450	7.9	.3	
307	do	--	do	14	45	26	24	255	26	22	.8	< .4	283	219	19.5	485	7.8	.7	
402	Mrs. Velma Shurley	144	Jan. 15, 1969	12	82	12	6	301	5	10	.2	1.0	276	254	4.9	481	7.5	.2	
403	do	252	do	13	70	21	9	293	9	16	.4	7.2	289	263	7.1	505	7.5	.3	
404	do	169	Jan. 14, 1969	17	94	13	4	334	6	6	< .1	14.5	319	290	2.9	532	7.6	.1	
406	do	213	Jan. 15, 1969	14	71	21	9	298	8	16	.4	13.0	299	264	6.9	504	7.6	.2	
601	Ned Dunbar, et al.	277	Jan. 16, 1969	10	54	13	8	205	5	14	.2	13.0	218	190	8.2	382	7.6	.3	
801	Duke Wilson	279	Jan. 23, 1969	10	50	20	13	239	7	21	.2	4.4	243	208	12.1	432	7.5	.4	

See footnotes at end of table.

Table 2.--Chemical Analyses of Water From Wells and Springs in Sutton County--Continued

WELL	OWNER	DEPTH OF WELL	DATE OF COLLECTION	SILICA (SiO ₂)	CALCIUM (Ca)	MAGNESIUM (Mg)	SODIUM (Na)	BICARBONATE (HCO ₃)	SULFATE (SO ₄)	CHLORIDE (Cl)	FLUORIDE (F)	NITRATE (NO ₃)	DISSOLVED SOLIDS	TOTAL HARDNESS AS CaCO ₃	PERCENT SODIUM	SPECIFIC CONDUCTANCE (MICROMHOS AT 25°C)	pH	SODIUM ADSORPTION RATIO (SAR)	
Edwards and Associated Limestones																			
55-35-901	Mrs. Nannie B. Sandherr	251	Jan. 15, 1969	13	58	30	36	342	32	23	0.8	< 0.4	361	269	22.7	614	7.6	1.0	
1/ 36-301	J.M. Vanderstucken Life Estate	353	May 11, 1961	15	50	23	* 12	252	10	17	.6	4.8	256	219	11	467	6.6	.4	
301	do	353	Mar. 11, 1970	13	63	25	11	316	4	17	.8	< .4	285	261	8.2	503	7.4	.3	
304	Bryan Hunt	350	Feb. 4, 1969	14	61	22	9	267	11	17	.7	10.0	276	241	7.8	460	7.6	.3	
401	Ned Dunbar, et al.	220	Jan. 10, 1969	13	60	18	11	254	8	17	.4	3.5	256	223	9.5	446	7.5	.3	
402	Mrs. Zadie Wyatt	250	Mar. 27, 1969	15	61	17	7	239	12	14	.3	9.0	253	221	6.8	446	7.7	.2	
502	John D. Fields	280	Feb. 24, 1969	14	53	22	10	254	10	15	.8	5.0	255	224	9.2	451	8.1	.3	
601	Bryan Hunt	350	Feb. 4, 1969	14	59	23	10	273	9	17	.3	7.2	273	243	8.5	476	7.6	.3	
701	M.E. Galbreath	276	Jan. 16, 1969	14	63	21	10	281	8	15	.4	5.0	274	246	7.9	472	7.5	.3	
702	do	400	Jan. 15, 1969	13	49	25	19	271	13	16	.7	2.0	271	224	15.4	472	7.6	.5	
803	G.W. Glimp	256	Mar. 27, 1969	15	60	20	9	267	8	12	.5	5.5	262	233	7.5	461	7.7	.3	
37-101	Bryan Hunt	350	Feb. 4, 1969	14	53	24	12	261	12	20	.8	5.6	270	233	10.2	470	7.6	.4	
203	do	350	do	14	53	23	12	253	11	21	.6	4.4	263	227	10.4	456	7.7	.4	
401	do	350	do	14	61	22	10	273	10	17	.6	5.0	274	244	8.1	470	7.5	.3	
601	Joe Brown Ross	240	Jan. 15, 1969	14	73	19	7	300	7	13	.3	2.6	284	260	5.8	495	7.5	.2	
603	Duke Wilson	--	Jan. 24, 1969	12	96	18	9	359	7	16	< .1	11.5	347	313	5.7	590	7.5	.2	
701	Libb Wallace	335	Mar. 27, 1969	16	56	21	10	257	8	15	.4	3.5	256	225	8.9	456	7.5	.3	
901	Duke Wilson	231	Jan. 24, 1969	15	110	11	37	277	17	51	< .1	100.0	477	319	20.4	755	7.3	.9	
902	do	344	do	14	69	19	8	285	8	14	< .1	8.6	281	251	6.4	485	7.6	.2	
38-101	Joe Brown Ross	350	Jan. 15, 1969	14	58	24	8	279	8	14	.4	3.5	267	243	6.9	467	7.7	.2	
301	Albert Schulz	300	Feb. 27, 1969	15	74	21	7	312	7	11	.3	5.5	295	271	5.4	505	8.4	.2	
401	Joe Brown Ross	350	Jan. 15, 1969	14	63	22	9	285	8	15	.5	2.6	275	246	7.2	480	7.7	.2	
402	do	--	do	15	82	14	12	251	8	27	.2	39.5	321	263	8.7	547	7.4	.3	
601	J.E. Sentell	280	Jan. 30, 1969	12	71	25	7	318	8	12	.2	8.0	299	281	5.1	568	7.5	.2	
701	Duke Wilson	149	Jan. 24, 1969	20	89	19	25	292	12	42	< .1	55.0	406	301	15.3	679	7.5	.6	

See footnotes at end of table.

Table 2.--Chemical Analyses of Water From Wells and Springs in Sutton County--Continued

WELL	OWNER	DEPTH OF WELL	DATE OF COLLECTION	SILICA (SiO ₂)	CALCIUM (Ca)	MAGNESIUM (Mg)	SODIUM (Na)	BICARBONATE (HCO ₃)	SULFATE (SO ₄)	CHLORIDE (Cl)	FLUORIDE (F)	NITRATE (NO ₃)	DISSOLVED SOLIDS	TOTAL HARDNESS AS CaCO ₃	PERCENT SODIUM	SPECIFIC CONDUCTANCE (MICROMHOS AT 25°C)	pH	SODIUM ADSORPTION RATIO (SAR)
<u>Edwards and Associated Limestones</u>																		
55-38-804	J.E. Sentell	180	Jan. 30, 1969	14	65	20	7	283	6	12	0.3	3.5	267	246	5.7	460	7.6	0.2
805	Duke Wilson	--	Jan. 24, 1969	16	62	20	7	278	7	11	.2	5.0	265	239	6.3	455	7.6	.2
904	Mrs. Myrtle D. Sellman	290	Mar. 4, 1969	15	77	19	6	317	7	9	.3	4.4	293	273	4.9	508	7.4	.2
39-101	Ray Parker	--	Jan. 22, 1969	10	77	12	5	272	7	10	.2	6.5	262	243	4.0	445	7.5	.1
102	do	--	do	13	78	21	6	318	9	12	.3	5.6	301	280	4.8	508	8.0	.2
104	do	--	do	13	86	14	6	310	9	12	.3	7.2	299	275	4.5	517	7.6	.2
205	do	52	do	14	95	16	8	340	10	13	.2	11.5	335	304	5.3	560	7.5	.2
403	James Lee Foster, Jr., et al.	--	Feb. 28, 1969	17	100	15	5	360	8	8	.2	8.5	339	309	3.6	580	7.8	.1
503	do	290	Feb. 27, 1969	15	53	27	10	276	8	12	.7	2.5	271	244	8.4	471	8.5	.3
603	J.P. Rieck, et al.	--	Feb. 4, 1969	12	65	27	10	306	8	19	.4	6.5	298	272	7.3	517	7.9	.3
702	G.T. Rode, et al.	250	Feb. 28, 1969	13	84	18	10	290	10	21	.2	31.5	331	283	7.4	577	7.7	.3
802	H.W. and J.P. Rieck, et al.	250	Jan. 31, 1969	18	62	37	62	232	29	144	2.2	15.5	484	307	30.7	866	7.7	1.6
41-201	B.G. Hunnicutt	144	Feb. 4, 1969	15	73	18	10	292	10	15	.4	11.0	296	258	7.7	502	7.5	.3
202	H.M. Phillips, Jr.	163	Feb. 5, 1969	20	74	26	18	303	13	33	.4	18.5	352	290	12.0	598	7.6	.5
203	do	159	do	16	85	16	8	326	8	14	.3	11.0	318	279	5.7	527	7.5	.2
302	Marjory R. Johnson	166	Dec. 10, 1968	15	75	19	8	294	11	14	.5	8.0	296	266	6.0	489	7.6	.2
303	Mrs. W.R. Aldwell Estate	191	do	15	62	20	7	266	10	16	.5	7.2	269	238	6.3	453	7.5	.2
405	T. Savell and Velma Hunt	183	Feb. 12, 1969	17	73	17	8	287	10	16	.4	11.5	294	254	6.3	479	7.4	.2
501	Bertha Glasscock	131	do	21	89	12	7	284	10	18	<.1	25.0	322	273	5.6	530	7.4	.2
502	H.M. Phillips, Jr.	217	Feb. 4, 1969	14	67	19	9	277	8	13	.2	10.0	276	245	7.0	471	7.7	.2
601	H.M. Phillips	300	do	17	64	20	10	277	8	14	.3	8.6	278	242	8.0	478	7.4	.3
602	Bertha Glasscock	250	Mar. 6, 1969	16	71	18	8	283	7	13	.4	11.5	284	252	6.7	487	7.5	.2
42-101	Mrs. W.R. Aldwell Estate	--	Dec. 10, 1968	14	77	17	8	294	10	15	.5	7.2	294	262	6.5	504	7.5	.2
102	Bertha Glasscock	260	Mar. 6, 1969	15	73	19	9	293	9	16	.5	9.5	296	263	7.1	504	7.5	.3
303	Duke Wilson	370	Jan. 23, 1969	14	63	24	9	294	9	12	.6	5.0	282	256	6.9	492	7.7	.2

See footnotes at end of table.

Table 2.--Chemical Analyses of Water From Wells and Springs in Sutton County--Continued

WELL	OWNER	DEPTH OF WELL	DATE OF COLLECTION	SILICA (SiO ₂)	CALCIUM (Ca)	MAGNESIUM (Mg)	SODIUM (Na)	BICARBONATE (HCO ₃)	SULFATE (SO ₄)	CHLORIDE (Cl)	FLUORIDE (F)	NITRATE (NO ₃)	DISSOLVED SOLIDS	TOTAL HARDNESS AS CaCO ₃	PERCENT SODIUM	SPECIFIC CONDUCTANCE (MICROMHOS AT 25°C)	pH	SODIUM ADSORPTION RATIO (SAR)	
<u>Edwards and Associated Limestones</u>																			
55-42-601	Mrs. Stella Keene	381	Jan. 30, 1969	13	50	17	12	220	9	20	0.3	4.4	233	197	11.8	417	7.5	0.4	
701	John Cauthorn	409	Jan. 28, 1969	13	61	20	10	266	10	13	.4	7.2	265	234	8.2	457	7.7	.3	
43-101	Ida Cauthorn	400	Jan. 7, 1969	14	63	20	9	275	10	14	.2	4.4	269	238	7.6	456	7.7	.3	
102	Mrs. Stella Keene	357	Jan. 30, 1969	14	46	24	11	250	11	13	.4	3.5	246	214	10.1	431	7.8	.3	
201	Mack Cauthorn	350	Jan. 21, 1969	13	65	14	9	253	7	14	.3	5.6	252	221	7.9	440	7.6	.3	
202	do	255	do	15	81	17	15	262	13	31	.4	35.5	337	272	10.6	575	7.2	.4	
302	do	369	do	16	63	20	9	282	8	13	.3	< .4	268	239	7.2	466	7.3	.2	
401	Dan Cauthorn	482	Jan. 7, 1969	3	40	26	23	209	50	19	1.2	< .4	265	207	19.6	471	7.9	.7	
1/ 501	do	410	May 11, 1961	15	54	20	* 16	238	14	26	.2	4.8	267	216	14	480	6.9	.5	
501	do	410	Jan. 7, 1969	15	58	18	17	243	14	25	.4	5.6	272	219	14.2	471	7.7	.5	
503	J.A. Cauthorn	400	Dec. 19, 1968	14	60	18	10	255	11	17	.7	2.6	259	223	8.8	444	7.3	.3	
603	Mack Cauthorn	--	Jan. 21, 1969	15	60	20	9	267	8	13	.3	5.6	262	232	7.7	454	7.7	.3	
44-101	W.R. Cusenbary	227	Jan. 10, 1969	13	50	27	11	272	9	13	.7	4.4	262	236	8.9	460	7.6	.3	
202	do	306	do	9	54	23	10	270	8	13	.4	< .4	250	230	8.5	446	7.8	.3	
401	J.A. Cauthorn	325	Dec. 19, 1968	14	63	20	7	273	18	13	.3	4.4	264	240	6.2	454	7.7	.2	
504	Ben H. Cusenbary	270	Jan. 17, 1969	10	55	20	8	255	6	13	.3	2.6	240	222	7.5	427	7.3	.2	
45-204	Lin Hicks, et al.	300	Jan. 22, 1969	10	64	27	9	316	4	17	.3	< .4	282	273	7.0	502	7.5	.3	
302	do	--	do	14	79	13	8	292	7	16	.2	3.5	285	254	6.6	500	7.5	.2	
306	Duke Wilson	--	Jan. 24, 1969	14	82	20	6	339	6	8	< .1	2.6	306	285	4.4	529	7.5	.2	
46-102	J.M. Vanderstucken	--	Jan. 21, 1969	13	62	22	7	282	6	14	.4	2.0	265	246	6.1	458	7.4	.2	
104	George Brockman	356	do	14	71	19	7	298	6	12	.2	5.0	281	254	5.6	488	7.6	.2	
105	do	235	do	13	58	26	12	294	9	19	.6	2.0	285	254	9.0	505	7.6	.3	
204	do	358	do	15	72	20	7	303	9	12	.2	1.0	285	263	5.4	490	7.3	.2	
205	Mrs. Fannie E. Wade	290	Feb. 28, 1969	15	78	18	7	299	6	18	.2	5.5	295	268	5.3	511	8.0	.2	
601	Mrs. M.B. Sawyer Estate	--	Jan. 23, 1969	10	59	22	8	276	8	14	.3	< .4	257	237	6.7	450	7.5	.2	
47-103	do	--	Jan. 24, 1969	9	51	27	18	276	15	29	.6	< .4	286	242	13.8	485	7.6	.5	

See footnotes at end of table.

Table 2.--Chemical Analyses of Water From Wells and Springs in Sutton County--Continued

WELL	OWNER	DEPTH OF WELL	DATE OF COLLECTION	SILICA (SiO ₂)	CALCIUM (Ca)	MAGNESIUM (Mg)	SODIUM (Na)	BICARBONATE (HCO ₃)	SULFATE (SO ₄)	CHLORIDE (Cl)	FLUORIDE (F)	NITRATE (NO ₃)	DISSOLVED SOLIDS	TOTAL HARDNESS AS CaCO ₃	PERCENT SODIUM	SPECIFIC CONDUCTANCE (MICROMHOS AT 25°C)	pH	SODIUM ADSORPTION RATIO (SAR)	
<u>Edwards and Associated Limestones</u>																			
55-47-105	Mrs. M.B. Sawyer Estate	--	Jan. 24, 1969	13	52	25	15	251	13	27	0.6	3.5	273	233	12.2	472	7.6	0.4	
<u>1/</u> 201	Joe E. Strube	--	May 5, 1961	17	58	24	* 13	276	9.4	22	.6	4.5	284	243	11	504	7.0	.4	
301	J.P. Rieck, et al.	300	Jan. 31, 1969	16	61	28	17	305	7	33	.6	< .4	313	269	12.4	550	7.5	.5	
302	Otis W. Cardwell, et al.	350	Feb. 25, 1969	14	58	19	15	244	11	25	.5	4.0	267	222	12.6	462	8.1	.4	
48-401	Otis W. Cardwell	350	do	15	58	20	19	246	13	32	.6	7.5	287	228	15.1	501	7.6	.5	
<u>Edwards and Associated Limestones--Trinity Sand</u>																			
55-33-301	Stella Sewell, et al.	319	Feb. 4, 1969	10	33	26	388	421	323	244	2.7	< .4	1,230	188	81.9	1,930	7.5	12.3	
35-201	E.E. Sawyer, Jr., et al.	339	Dec. 18, 1968	10	32	19	568	564	443	351	5.7	< .4	1,710	158	88.8	2,650	7.5	19.6	
<u>Edwards and Associated Limestones--Permian Rocks</u>																			
55-23-601	Ned Dunbar, et al.	245	Jan. 17, 1969	12	92	47	18	270	185	30	.9	2.6	520	425	8.3	802	7.8	.4	
<u>Alluvium</u>																			
<u>1/</u> 55-26-101	E.S. Mayer Trust and Ernestine Mayer	164	July 1, 1960	16	71	19	* 13	283	14	18	.6	11	302	255	10	520	6.9	.4	
39-302	Margaret Schwiening	40	Jan. 9, 1969	14	90	15	9	310	10	14	.4	20.0	324	288	6.2	553	7.5	.2	

1/ Analysis by U.S. Geological Survey.

* Concentration includes both sodium (Na) and potassium (K).

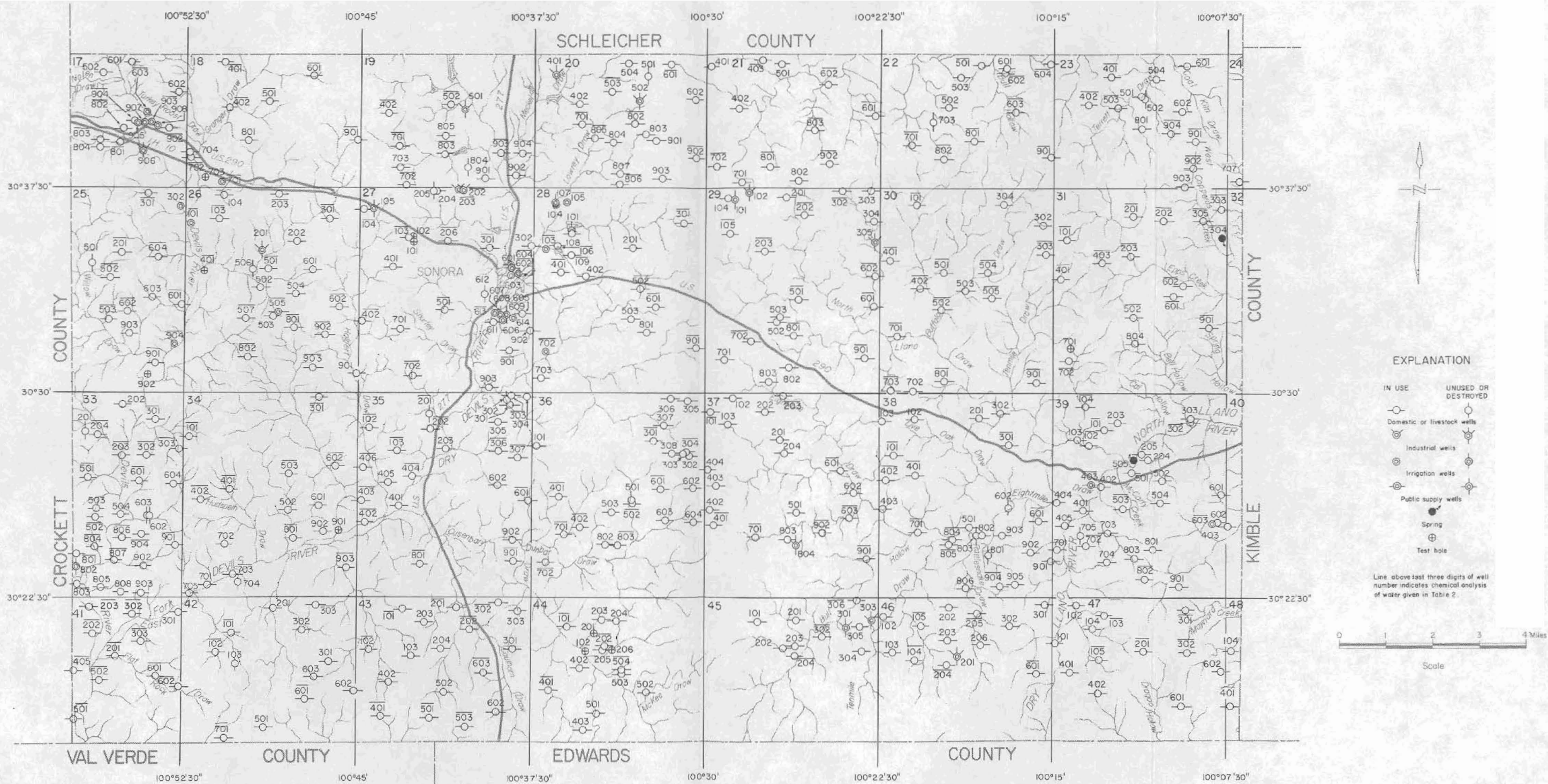


Figure 3
Location of Wells and Springs in Sutton County