TEXAS BOARD OF WATER ENGINEERS

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FREESTONE COUNTY, TEXAS

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

JUNE 1, 1937

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FREESTONE COUNTY, TEXAS

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Introduction

by
Samuel F. Turner
Associate Hydraulic Engineer
U. S. Geological Survey

The purpose of this survey was to obtain information concerning existing wells and springs and the quantity and quality of water they yield, and to put down test holes where additional information was needed.

This project was part of a statewide Works Progress Administration project known as a "Statewide Inventory of Water Wells," sponsored by the State Board of Water Engineers. The Division of Ground Water of the U. S. Geological Survey cooperated in the technical direction of the project and the Bureau of Industrial Chemistry of The University of Texas furnished laboratory space and equipment and supervised the chemical analyses.

The analyses were made by chemists employed on Works Progress Administration Project 6507-5112 at Austin, Texas, sponsored by the State Board of Water Engineers. This release was typed and assembled by typists and draftsmen employed on this project.

The field work in Freestone County was started on January 17, 1936, and completed on June 1, 1936. This project was Project 2077 of District 5 of the Works Progress Administration, Palestine, Texas. H. L. Chenault, an engineer, was project superintendent. Mr. Chenault deserves credit for his work and for the many extra hours he spent on the project. The Palestine office of the Works Progress Administration made this work possible by their constant help and cooperation.

This release contains the well and spring records and well logs obtained by the project superintendent, logs of the test holes drilled by the W. P. A. labor, and the chemical analyses of water from privately owned wells and springs. Locations of all wells and springs listed are shown on the map in the back of the release.

The test wells were drilled by W. P. A. labor using a soil auger, drop auger, churn drill, and a sand bucket. Samples were collected at one foot intervals by the well driller in charge of the party. The project superintendent studied these samples and compiled the logs.

Records of wells and springs in Freestone County, Texas.

(All wells are dug unless otherwise indicated in "Remarks" column.)

(See "Logs of W. P. A. test wells" for all records of test wells.)

| 0. | Distance from | Owner | Driller | Date com- | Topo- graphic | | Diam- eter | Height of measuring | |
|---------------------------------------|----------------------------|--|----------------|--------------|------------------|------------|---------------|--|--|
| 1 | Wortham | | 1 | | situa- | well | of | point a- | |
| | MOT OTTON | | F | | tion | | well | | |
| 1 | | | 1 | 000 | | (/ | (in.) | und(ft.)a | |
| 10 | 4 miles | J. C. | <u> </u> | 1 934 | Creek | 17 | 48 | 3 | |
| | southeast | Kirren Est. | i | | bottoms | | : | | |
| / 14a | 5 miles | Jos. Nussbaum. | Jno. W. Hooser | 1929 | 200-000 | 3,329 | | *** | |
| | east | et al. | | | | | | | |
| | Distance | Owner | Driller | Date | Topo- | Depth | Diam- | Height of | |
| į | from | 1 | | com- | graphic | | eter | measuring | |
| t t | Kirvin | f f | 1 | ple- | , , | well | of | point a- | |
|) | | 1 | ! | ted | tion | (ft.) | well | bove gro- | |
| i | | 1 | | 1 | | • | (in,) | und(ft,)a | |
| 23 | 1 mile | Shilo School | | | Gentle | 142 | 36 | 1 | |
| | nor thwest | Direct Donota | | 1 | slope | | | ; | |
| 24 | In Zirvin | D. R. Ailen | Jim Tear | 1914 | | 24 | 48 | , 2 | |
| 25 , | do. | J. C. Adams | Will Davis | 1935 | do. | 31 | 48 | 2 | |
| | 7 | Towns 11 | | 3000 | 30 | 12 | 140 | 2 | |
| 27 | l mile south | Mrs. Barnhill | | 1920 | | | | 1 | |
| 58 | $1\frac{1}{4}$ miles south | Mrs. Ruth Laney | Withers | 1925 | | 48 | 6 | 2 | |
| 30 - | lā miles | Gilliam | =+ | 1927 | Creek | 13 | 18 | 1 | |
| | west | Poindexter | | | bottoms | | | <u> </u> | |
| 331 | 23 miles | Ranson | **** | 1 915 | | 59 | 6 | 1.5 | |
| | west | Stallworth | | | slope | | | | |
| 35 | 4 miles southwest | Ellis Campbell | | 1915 | Draw | 31 | 48 | 2 | |
| 36 ! | उड़े miles | J.C. McKinney | Frank Hall | 1927 | Gentle | 37 | 48 | l | |
| : | sõuthwest | | | | slope | | ļ.,,,, | <u> </u> | |
| 37 | 4 miles | do. | 400-000 | 1920 | do. | 50 | 36 | 1 | |
| 38 i | southwest do. | W. T. West | McKinney | 1895 | Creek | 37 | 60 | 0.5 | |
| 201 | ao. | W. T. West | MCKIIIIey | 1030 | bottoms | | | | |
| 40 | 5± miles | do. | | าดาส | Gentle | 62 | 36 | 3 | |
| 40 | southwest | u.u. | | 1717 | slope | <i>ح</i> د |) | | |
| 41; | do. | Kaiser Kuyava | Shart tave | 1915 | | 47 | 48 | 1 4 | |
| 43 | do. | Avery McKinney | Manns | | do. | 67 | 48 | 1 3 | |
| <u> 12</u> | 7.1 | | | 1000 | 2 | - 60 | 48 | | |
| | 6½ miles southwest | W. K. Manning | *** · | 1920 | Gentle slope | 29 | | 3 | |
| 45 | do. | New Hope School | 040 000 | 1920 | do. | 34 | 36 | 3 | |
| 46 | do. | Mrs. J. H. Collins | 410 114 | 1914 | do. | 45 | 36 | 2 | |
| 48 | do. | S. C. Smith | | 1910 | Creek | 32 | 36 | 36 0 | |
| - no! | 7 | ļ.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | | 40=1 | bottoms | | - | | |
| 49 | 7 miles | Mrs. Winn | Vernon Gilliam | 1 934 | | 44 | 48 | 4 | |
| · · · · · · · · · · · · · · · · · · · | southwest | was usually ton | | Ì | slope | | | } | |

a/ Measuring point was usually top of casing, top of pump base, or top of well curb. 5/ T, turbine; A, air-lift; C, cylinder; B, bucket; E, electric; G, gasoline engine; W, windmill; H, hand; number indicates horsepower.

Records obtained by H. T. Chenault. Project Superintendent.

| (Oh om | t cot | Records | s obtai | ined by | y H. L. Chenault, Project Superintendent. |
|------------------|--------|------------------|------------|-----------|--|
| (Crren | | Level | oi wat | er iron | these wells and springs are in the table of analyses) |
| No. | Depth | Date of measure- | | Use of | Remarks |
| | measur | | | water | |
| | ing po | int | ъ/ | <u>c/</u> | |
| | (feet) | | _ | _ | |
| 10 | | May 7. 1936 | В,Н | i | Brick curb; brick casing, top to bottom. Strong supply. Water reported soft. |
| 14a | | | | | Drilled well. Oil test. See log. |
| | Water | Level | | | |
| No. | | Date of | Pump | Use | Remarks |
| | below | measure- | | of | |
| | measur | | power | 1 . | |
| | ing po | | <u>b</u> / | d/ | |
| | (feet) | | | | |
| 23 | | Mar. 9, 1936 | В,Н | D | Brick curb. Weak supply. Water reported hard, |
| 24 | 23.7 | do. | В,Н | D.S | Wood curb; galvanized casing. Water reported hard. |
| 25 | 21.7 | do. | В, Н | D, S | Brick curb. Water reported soft. |
| 27 | 11.8 | do. | B,E | D | Brick curb. weak supply. Water reported hard. |
| 28 | 42,1 | do. | В,Н | | Bored well. Wood curb and casing. Weak supply. water reported hard. |
| 30 | 9.7 | Mar. 23. 1936 | B,H | D | Brick curb. Reported strong supply of soft water. |
| 33 | 57.6 | do. | в, н | | Bored well. No curb. Galvanized casing. Weak sup- |
| 35 | | Mar. 10, 1936 | None | D,S | Wood curb. Strong supply. Water reported soft. |
| 36 | 31.5 | do. | В,Н | D.S | Brick curb. Water reported soft. |
| | 39.6 | do. | В,Н | | Tile curb. Water reported hard. |
| 38 | 27.4 | do. | C.M | D,S | Brick curb. Water reported hard. |
| 40 | 58.1 | do, | B,H | N | Wood curb; brick casing. Strong supply. |
| <u>'</u> +1 | 46.3 | do. | 3,H | D, S | Wood curb; brick casing. Water reported hard. |
| 43 | 64.9 | do. | В,Н | D,S | Do, |
| 44 | i | Mar. 5. 1936 | В,Н | <u> </u> | Wood curb; brick casing. Weak supply. Water reported hard. |
| 45 | 33.6 | do. | в,н | D | Brick curb. Weak supply. Water reported hard. |
| 46 | 45.2 | do. | В,Н | D,S | Do. |
| 48 | 18.3 | do. | None | N | Brick curb. Reported strong supply of hard water. |
| 49 | 36.0 | do. | В,Н | D.S | wood curb; brick casing. Weak supply. Water reported hard. |
| d/\overline{I} | irrie | ation; Ir | id, ind | lustria | al; P. public; D. domestic; S. stock; N. not used, |

d/ I, irrigation; Ind, industrial; P, public; D, domestic; S, stock; N, not used, d/ No water sample collected for analysis.
e/ Water level reported.

Records of wells and springs in Freestone County--Continued

| No. Distance from Kirvin | | 1 | | | Topo- graphic | Depth of | Diam- eter | Height of measuring |
|--------------------------|-------------------------|--------------------------|---|--------------|-----------------------|-------------|---------------|-----------------------|
| | | | | ple- | 'situa- 'tion | well (ft.) | of well | point a- bove gro- |
| | | 1 | | | 1 | - | (in.) | und(ft.)a/ |
| 51 | 7½ miles southwest | Clay McKinney | the stab | | Level | 32 | 36 | 3 |
| 52 | do. | L. V. Kennedy | | 1930 | Level | 40 | 72 | 1 |
| 53 | do. | L.P. Robinson | - | 1916 | do. | 29 | 36 | 3 |
| 56 | 7 miles southwest | Will Barkouskie | | 1900 | Gentle slope | 65 | 60 | 1.5 |
| 59 | 7 miles south | Clifford Boyd | | 1933 | Hilltop | , 35 | 48 | 3 |
| 60 | đo. | Lizzie Cox | 1 ************************************* | 1850 | Gentle slope | 40 | 48 | 3 |
| 62 | do. | Winfrey's Serv. Sta. | Oil Co. | | Hilltop | 347 | 6 | 0.5 |
| 63 | 6 miles south | Withrow Gin Co. | *** | 1920 | Level | 20 | 36 | 3 |
| 64 | do. | Cotton Gin School | wome | 1930 | do. | 22 | 48 | 2 |
| 65 | do. | Alderman and Alderman | made drags | 1890 | Gentle slope | 36 | 148 | 3 |
| 67 | do. | J. D. Moffett | | | Hilltop | 72 | 48 | 1 |
| d/ 67a | 5 miles south | J. D. Woods | J. S. Cosden, Inc. | 1927 | | 4,226 | | |
| 68 | 45 miles south | Mrs. L. C. Traham | | | do. | 37 | 48 | 3 |
| 71 | 4 miles south | Mrs. Hugh Day | •••• | 1915 | do. | 23 | 36 | 2 |
| 72 | do. | Mrs. John Sweat | | 1915 | Level | 18 | 48 | 3 |
| 73 | 33 miles south | W. W. Day | Tear | 1912 | | 75 | 6 | 2 |
| 74 | do. | J. M. Day | do. | 1910 | Gentle | 84 | , 8 ; | 2 |
| 75 | 3½ miles south | H. P. Milligan | | 1 936 | Hilltop | 23 | 1 48 | 3 |
| 76 | do. | R. E. Hays | | 1931 | Gentle slope | 32 | 48 | 3 |
| 77 | 3 miles south | W. T. Moore | | - | do. | 56 | 48 | 3 |
| 79 | 2½ miles south | do. | Owner | 1 934 | Flat | 41 | 48 | 3 |
| 80 | do. | Shanks School | | 1915 | Centle slope | 53 | 48 | 3 |
| 82 | 1-1/3 mile southeast | es A. P. Carter | | 1890 | do. | 32 | 36 | 3 |
| 83 | do. | L. C. Coleman | | 1915 | 15 Hilltop 26 4 | | 48 | 3 |
| 84 | 2½ miles east | Tom Newman | *** | | Hill- side | 31 | 6 | 2 |
| 86 | 3½ miles southeast | Fred Carter | | | Hilltop | 33 | 48 | 3 |
| | こう はいかいだいい | · · | ; | 1 | Hill- 25 48 side | | | |

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| , | | н. | T. Che | pault, Project Superintendent. |
|---------------------------------------|--------------------------|--------------|-------------|--|
| | Water Level | *** | 110 0110 | The state of the s |
| No. | | Pump | Use | Remarks |
| | below measure- | and | of | |
| ; ! | | power | water | |
| i | ing point | <u>b</u> / | c/_ | |
| | (feet _,) | , — | _ | |
| 51 | 24.0 Mar. 5, | None | N | Concrete curb. |
| J- 1 | 1936 | , 110230 | Δ4 | |
| 52 | 26.7 do. | C.W | D, S, I | Concrete curb and casing. Strong supply. |
| | | | | |
| 53 | 28.81 do. | . C.₩ | D,S | Brick curb. Weak supply. Water reported hard. |
| | | ļ | | |
| 56 | 53.5 do. | B,H | D,S | Brick curb. Strong supply, Water reported hard. |
| 59 . | 35.5 Feb. 20, | ; ; B,H | D 0 | Wood cambe build opens |
| 23 | 1936 | , D,H | D,S | Wood curb; brick casing. |
| 60 | 33.9 do. | | D.S | Brick curb. Reported old well but still has strong |
| 00 1 | , ac. | | 1010 | supply. |
| 62 | 47 . e/ | C.W | D | Drilled well. 6 inch steel casing. |
| | | | | |
| 63 | 12.1 Mar. 3. | В,Н | D, Ind | Wood curb; brick casing. Strong supply. Supplies |
| · | 1936 | · | | gin. |
| 64 | 16.9 do. | В, Н | D | Brick curb; reported strong supply. |
| 65 | 70 11 30 | <u> </u> | | The all and a second of the se |
| 05 1 | 30.4 do. | B•H | D | Wood curb; brick casing. Strong supply |
| 67 | 63.1 do. | В.Н | ח. פ | Brick curb. Strong supply. Water reported hard, |
| - | | 1 | D, 5 | Direct out of Direct Supply "wood robot tour month |
| 67a | | | | Drilled well. Cil test. See log. |
| | İ | | | |
| 68 | 27.9 Mar. 9. | В.Н | 2 | Wood curb and casing. Strong supply. Water report- |
| | 1936 | | | ed hard. |
| 71 | 7.0 Mar. 7. 1936 | В,Н | D.S | Brick curb. Strong supply. |
| 72 | | B, H | D.S | Wood curb; brick casing. Weak supply. Water reported |
| | - Ley a.o. | Dir | 2,0 | hard. |
| 73 | 69.7 do. | В.Н | D.S | Bored well. Wood casing. Water reported hard. |
| , | 1 | | | |
| 74 | 66.1 do. | B. H | D,S | Bored well. Calvanized casing; water reported hard. |
| | | | | |
| 75 | 17.5 do. | B,H | D.S | Brick curb. |
| 76 | 30.6 Mar. 9. | В.Н | D,S | Wood curb; brick casing. Strong supply. |
| 10 | 1936 | 10 9 11 | ت در | |
| 77 | 47.1 Mar. 7. | B.H | D,S | Brick curb. Strong supply. Water reported hard. |
| | 1936 | | | |
| 79 | 27.5 do. | В,Н | D.S | Do. |
| <u>ا</u> ا در دی میراب. | | | | |
| 80 | 43.4 do. | В,Н | D | Do. |
| 82 | Ø 7 3' CO | | | Wood analysis had be a second as the second |
| ٥٧ | 8.3 Mar. 20. 1936 | В,Н | D,S | Wood curb; brick casing. Strong supply; water reported ed limy. |
| 83 | 14.6, do. | в, н | D.S | Wood curb; log casing. Strong supply. Water report- |
| ب ر - | _,*0, 40* | 44 4 CE | מינע | ed hard. |
| 84 | 25.6 do. | В,Н | D | Bored well. Wood curb and casing. |
| | | - | | |
| 86 | 32.3 do. | None | N | Wood curb; brick casing. |
| - 77 | | | <u></u> | |
| 88 | 17.6 do. | В, Н | D,S | Wood curb; brick casing. Strong supply. |
| | | | | |

-7Records of wells and springs in Freestone County--Continued.

| ************************************** | | s of wells and s | 7 | | 00 022 0 | VV | | |
|--|-----------------------|---------------------------|-------------------|--------------|------------------|-------------|---------------|--|
| No• | Distance from | Owner | Driller | Date com- | Topo- graphic | Depth of | Diam- eter | Height of measuring |
| | Kirvin | ! | | ple- | | well | of | point a- |
| į, | | | | ted | tion | (ft.) | | bove gro- |
| į. | 1 | | | bea | 01011 | (10,) | (in.) | |
| 90 | 8 miles southeast | John Wylie | | | Gentle | 29 | 48 | 2 |
| 92 | 85 miles | John Riley | L.L. Rudasill | 1935 | slope do. | 15 | 48 | 3 |
| i | southeast | | | | | | | |
| 93 | do. | Mrs. G. V. Hullum | Calloway 19 | | do. | 22 | 36 | 3 |
| 95 | 9 miles southeast | John Riley | page seas | | do. | 21 | 36 | 3 |
| | | | | | | | 1 110 | |
| 96 | 7章 miles southeast | Jim Short | | | Hilltop | | 48 | 1 3 i |
| 100 | 8½ miles south | Tabernacle School | | 1933 | do. | 22 | 36 | 3 |
| 101 | 7늘 miles | T. B. Connell | Owner | 1933 | Gentle | 70 | 118 | |
| | southeast | | | | slope | | 1 | |
| 103 | do. | H. J. Vibrock | H. J. Vibrock | 1928 | do. | 15 | 48 | 3 |
| 104 | 8 miles southeast | G.C. Ward | | | Flat | 86 | 36 | 3 |
| 106 | | + +7 37-45 | | 7071 | 2-17- | 110 | 6 | |
| } | 8½ miles south | J. H. McAdams | George Withers | | slope | 45 | | 2.5 |
| 107 | 8 miles south | George Hoose | do. | 1933 | do. | 80 | 6 | 3 |
| 109 | do. | H.J. Adamson | George Elliot | 1935 | Hilltop | 43 | 30 | 1 |
| 111 | 6½ miles | Magnolia | | | Gentle | 58 | 8 | 1 |
| | south | Pipe Line Co. | , | | slope | | ļ, | |
| 112 | do. | do. | Cast State | 1915 | Flat | 150 | 6 | |
| 113 | do. | Mrs. Hugh Day | ••• | ~ | do. | 23 | 48 | 3 |
| 115 | do. | O. J. Miner | **** | 1933 | Gentle | 42 | , 6 | 2.5 |
| 4- | | | | | slope | | | |
| 116 | 7 miles south | Roy Simmons | Slaves | 1830 | Draw | 35 | 48 | 5 |
| 117 | do. | do. | | 1930 | Hill- side | 47 | 30 | 1 |
| 118 | do. | do. | Slaves | 1860 | Hilltop | 56 | 48 | 0.5 |
| 120 | 9 miles | B.N. Demus | | | Flat | 45 | 48 | 2 |
| | south | | | | | | | |
| 155 ¦ | do. | Jim Clements | | | do. | 47 | 48 | 3 |
| 123 | 9호 miles south | Richardson High School | Sam Vernon | 1930 | do. | 26 | 48 | 3 |
| 124 | do. | Lena Bates | Jim Palm | 1935 | do. | 49 | 36. | 3 |
| 126 | 40 | Mag Desaller | ; | | A | | 1 | |
| 7CO' | do | Mrs. Bradley | **** | | Gentle slope | 22 | 24 | 3 |

H. L. Chenault, Project Superintendent. Water Level Depth Date of Pump Use No. Remarks below measure- and of measurment power water ing point Ъ/ c/ (feet) 90 28.8 Feb. 19. Bad taste reported. B,F D. S Log curb. 1936 92 D.S strong supply. do. B.H Brick curb. 93 15.7 Brick curb; plastered brick casing. do. B.H D.S Wood curb and casing. Strong supply. Water report-95 6.1 May 29. B.H D.S 1936 ed hard. 96 56.0 Feb. Wood curb; plastered casing. Strong supply. 13, B.H D 1936 100 23.0 Mar. Wood curb and casing. Weak supply. 31, B, H 1936 101 water reported 60.0 D.S Brick curb and casing. weak supply. C,G,2号 from quicksand. Reported water formerly soft but later 103 9.7 Feb. 13, Brick curb. B, H : D, S 1936 became hard. 104 60.3 strong supply. do. B.H D, S Brick curb. 106 38.9 Jan. 30, Bored well. Wood curb and casing. Weak supply. B, H D, S water reported hard. 107 64.0 Bored well. Wood curb and casing. Strong supply. e/ B.H D,S Reported sulphur taste. Brick curb. Strong supply. Hard rock reported at 109 28.3 Jan. 30. B.H: D.S 1936 32 feet. III 41.4 Bored well. Concrete curb; galvanized casing. Strong Mar. $C_{\tau}A$ 1936 supply. I inch air line. Perforated casing at 112 Bored well. Galvanized casing, perforated bottom. 38 e/ C.A at bottom. h inch air line. 113 15.6 Mar. 3. wood curb; brick casing. Strong supply. B.H \overline{N} 1936 115 35.4 Bored well. Wood curb and casing. Strong supply. do. B,H D 116 25.6 Jan. 30. C,G,1 D,S Concrete curb. Weat supply. Estimated capacity 3 .936 gallons a minute. Irrigates garden in summer. 117 Brick curb. Water reported from red sand. 36.7 do. None 118 50.2 weak supply. Reported pumps dry in do. C.W Brick curb. D.S 3 hours. 120 32.6 Mar. 6. B.H D,S Tood curb; rock casing. Water reported hard. 1936 122 43.8 Wood curb; wood casing. Strong supply. Water . do. B,H reported hard. 123 Wood curb; brick casing. Weak supply. 25.3 do. Bad taste B,H ת reported. 124 36.3 do. Wood curb; brick casing. Hard water reported from blue sand. 126 Wood curb: rock casing. Weak supply. Water report-20.5 do. B,H. ed hard.

Records of wells and springs in Freestone County-Continued. Driller Date Topo-Depth Diam- Height of No. Distance Owner from com- graphic of eter measuring Streetman ple-|situawell of point ated tion (ft.), well bove gro-(in.) und(ft.)a/ d/203a 2층 miles E. F. Lamb Bert Fields 1936 3,503 south 2록 miles 206 80 Betty Davis Joe Folk 1925 Flat 3.5 east 4늘 miles 3 207 J.S. Adair Preacher John-, 1934 Hill-75 48 side east son 208 4로 miles do. do. 47 48 3 1926 do, east 4 miles d/210a Oliver Burleson Neversuch 1932 *** 3.733 east Oil Co. 213 6 miles W.J. Davis 1934 Gentle 2 B. C. Whatley 60 36 southeast slope 215 6 miles Guy Coleman do. 35 36 3 1931 do. southeast 216 7 miles Jno. L. Bonner 3 Jno. Baker 1933 Hill-741 8 southeast side 217 do. Mrs. M.C. Howard 1924 Gentle 60 6 3.5 Awalt Freeman slope 220 65 miles Fred Nettles 1929 Hill-19 48 2.5 Owner southeast side 221 7 miles Paul Bonner 21 48 3 Paul Bonner 1932 Gentle southeast slope 222 7号 miles T. R. Bonner Vernon Gilliam Flat 45 36 3 southeast 8등 miles 1925; Hill-2 223 36 W. W. Steward J. B. Lewis 19 southeast side 258 ll miles : Harvin Watson Joe Folk 1925 Flat 89 3 east Distance No. Owner Driller Date Topo-Depth Diam- Height of from graphic ofeter measuring com-Fairfield of point aplesituawell (ft.) well bove groted tion (in.) und(ft.)a/ 6 miles 233 Douglas Weaver 1910 Hill-45 36 nor th side 235 do. M. H. Whitaker 1922 do. 29 36. 3 J. B. Lewis 236 do. Creek : do. Spring bottoms 6g miles 48 48 0 237 Jim Frazier Pete Loder 1915 Hilltop northwest 259 đo. Rich Salter Geo. Vernon 1932 Hill-25 118, 3 side 240 do. 10 Percy McGeorge - Oil Co. 1928 Creek 4m, 4x.1 bottoms 48 242 5 miles W. S. Patrick Hilltop 31 3

northwest

Measuring point was usually top of casing, top of pump base, or top of well curb. T, turbine, A, air-lift; C, cylinder; B, bucket; E, electric; G, gasoline engine; W, windmill; H, hand; number indicates horsepower.

-10-H. L. Chenault, Project Superintendent. Water Level No. 1 Depth Date of Pump Use Remarks below measure and ofmeasurment power water; ing point b/ c/ (feet) 203a Drilled well. Oil test. See log. 206 76.8 Apr. 15, Bored well. Wood curb and casing. $\overline{\mathbb{B}}$, H strong supply. D.S 1936 Water reported slightly hard. 207 71.3 do. B.H Wood curb: brick casing. Water reported too hard for washing. 208 44.31 Wood curb; brick casing. Weak supply. do. B, H Water report-D.S ed hard. 210a Mone Drilled well. Oil test. N See log. 213 56.4 Apr. 6, Brick curb and casing. Strong supply. C. W D.S Water report-1936 ed slightly hard and limy. 215 Wood curb; brick casing. Weak supply. Reported soft 36.6 B,H do. T water. 216 74.1: Apr. 14. B, H Bored well. Galvanized casing. Weak supply. D, S turbid water reported. 1936 217 Bored well. 55.6 do. В.Н wood curb and casing. Weak supply. Water reported hard. 220 Apr. 15. B,H D, S Brick curb and casing. Strong supply. Soft water 1936 reported. 221 21.0 do. В.Н Wood curb; brick casing. Weak supply; water report-D.S ed fairly soft. 222 35.9 do. B, H Brick curb and casing. Strong supply. Water reported hard. 223 18.5 Apr. 14, B,H Wood curb; brick casing. Strong supply. Water D, S 1936 reported hard. 228 84.3 Apr. 24, B.H Bored well. Wood curb and casing. Strong supply. : 1936 Water reported hard. Water Level Depth Date of Pump No. Tise Remarks below measure- and of measurment power water ing point **b**/ c/ (feet) 233 41.0 Apr. 14. B.H D,S Wood curb; brick casing. Strong supply. Water 1936 renorted soft. 235 30.0 Brick curb and casing. Weak supply. Water reported do. B.H D.S slightly hard. 236 do. Wood curb. Wa ter reported from quicksand. Flows None D.S fails in drought. 237 40.01 Apr. 3, B,H Brick curb and casing. Strong supply. Water report-D, S 1936 ed hard and limy.

D.S | Rock curb and casing.

Drilled well.

Wood curb: 10 feet log casing at top.

Strong supply through 2 inch choke-

Sour water

strong supply.

27.8 Apr. 16,

do.

B, H

None

B,H

D,S

239

240

242

25.5

Flows

c/ I irrigation; Ind, indistrial, P. public; D. domestic; S. stock; N. not used.

d/ No water sample collected for analysis.

e/ Water level reported.

-11Records of wells and springs in Freestone County--Continued.

| | Reco | rds of wells and | springs in Free | stone | county- | -Conti | nuea. | , |
|-----|-------------------------------|----------------------|--|-------|-----------------|------------|--------------------|---|
| No. | Distance from Fairfield | Owner | Driller | com- | | | eter of well | Height of measuring point a-bove gro-und(ft.)a/ |
| 544 | 5 miles northwest | M. J. Tate | John Baker | 1933 | Gentle slope | 41 | 6 | 2 |
| 245 | do. | Leonard York | Roy Minchew | | do. | 29 | 36 | 3 |
| 246 | do. | Colon Willard | Will Davis | 1936 | do. | 28 | 36 | 3 |
| 248 | 43 miles northwest | S. A. Smith | Luther Thomp- son | 1933 | Hilltop | 14 | 36 | 3 |
| 249 | 4 miles northwest | M. J. & W. Tate | Leslie Tidwell | 1933 | Hill- side | 42 | 36 | 3 |
| 250 | 45 miles north | Walter Freeman | Claypool | 1830 | | 38 | 36 | 3 |
| 253 | 나 사 miles north | Arthur Cameron | Owner | 1929 | Hilltop | 17 | 48 | 3 |
| 254 | 42 miles north | W. E. Jones | Will Davis | 1936 | Gentle slope | 93 | 48 | 3.5 |
| 255 | 5 miles north | Forrest Jones | Andry Baker | 1933 | | 99 | 6 | 3 |
| 256 | 4호 miles north | Mrs. B. R. Speed | Robert Speed | 1935 | do. | 46 | 36 | ; |
| 257 | 42 miles | J. F. Aultman | Leslie Tidwell | 1934 | do. | 41 | 36 | 3 |
| 259 | 5 miles north | Carl Williford | Pitrani | | do. | 41 | 6 | 2 |
| 260 | 6 miles | Ben Willard | Leslie Tidwell | 1935 | Flat | 24 3 | | 3 |
| 261 | do. | Tommie Willard | Owner | 1930 | do. | 29 | 48 | 3 |
| 262 | b₂ miles north | T.R. Donaldson | Leslie Tidwell | 1935 | do. | 20 | 36 | 2.5 |
| 264 | 6 miles northeast | Wallace McGuyer | dent tent | 1915 | Gentle slope | 32 | 6 | 3 |
| 266 | 5 miles northeast | do. | | 1929 | Hillton | 29 | 36 | 2 |
| 267 | do. | Henry Lee | Ernest Folk | 1933 | Hill- side | 39 | 6 | 3 |
| 268 | do. | Mrs. H. A. Lee | do, | 1932 | | 56 | 6 | 3 |
| 269 | 42 miles northeast | Ord Keaton | 10-10-10-10-10-10-10-10-10-10-10-10-10-1 | 1900 | Hilltop | 50 | 8 | 2 |
| 270 | do. | do. | tonia propi | 1910 | Hill- side | 20 | 6 | 2 |
| 271 | 부 miles northeast | E. J. Folk | Lee Mallard | 1936 | Gentle slope | 14 | 48 | 2 |
| 273 | 35 miles northeast | Jeff Owens | Joe Creel | 1900 | do. | 15 | 24 | 3 |
| 274 | 3章 miles northeast | Martha Day | **** | 1910 | do. | 80 | - 6 | 2 |
| 276 | 3 miles northeast | Mrs. J.W. Day | Hugh Talley | 1910 | Flat | 115 | 6 | 2 |
| 277 | do. | Jimmie Day | | 1918 | Gentle slope | 1 5 | 48 | <u></u> |
| 278 | 2 miles north | Shadrick Thompson | Owner | 1934 | | 58 | 36 | 2.5 |
| | | | | | | - | | |

| ***** | | Н. | L. Ch | enault, Project superintendent. |
|-----------------|-----------------------|--------------|----------|--|
| | Jater Level | | | |
| No. | Depth Date of | Pump | Use | Remarks |
| | below measure- | | of. | t |
| | measur- ment | | ! * | 1 |
| | ing point (feet) | , <u>b</u> / | <u> </u> | 1 |
| 244 | 38.7 Apr. 16. 1936 | В, Н | D.S | Bored well. Wood casing. Weak supply of good water reported. |
| 245 | 28.6 Apr. 3. | B,H | D,S | Brick curb and casing. Strong supply. Water report- |
| | ; 1 936 | -• | 1 | ed hard. |
| 246 | 24.8 do. | B.H | D | Wood curb; brick casing. Water reported hard. |
| 248 | 10.3 do. | В,Н | D,S | Wood curb; brick casing. Strong supply. Formerly weak supply reported. |
| 249 | 42.0 do. | B, H | D.S | Brick curb and casing. Strong supply. Water reported soft. |
| 250 | 35.9 Apr. 14, | В,Н | D.S | Brick curb installed Mar. 1936; brick casing. Strong supply. |
| 253 | 12.9 Apr. 13. 1936 | В, Н | D, S | Brick curb and casing. Strong supply. Water reported hard. |
| 254 | 87.4 do. | В,Н | D,S | Wood curb; brick casing. Water reported from blue |
| 255 | 96.0 do. | В,Н | D,S | packed sand. Bored well. Wood curb and casing. Water reported |
| 5-7- | 11000 | | | from quicksand. Weak supply. |
| 256 | 42.0 do. | В,Н | D.S | Brick curb and casing. Water reported from white sand. |
| 257 | 36.1 do. | B,H | D.S | Brick curb and casing. Hard water reported from white sand. |
| 259 | 33.9 do. | В.Н | D.S | Bored well. Wood curb and casing. Strong supply. Water reported hard. |
| 260 | 23.9 June 20, 1936 | В, Н | D.S | Brick curb and casing. Strong supply. Turbid. |
| 261 | 20.4 do. | В,Н | D.S | Wood curb and casing. Strong supply. Quality reported variable. |
| 262 | 19.6 do. | в,н | D,S | Brick curb and casing. Reported strong supply of |
| | | 20,11 | 2,0 | soft water. |
| 264 | 31.5 June 15, 1936 | В.Н | D.S | Bored well. Wood curb and casing. Water reported from quicksand. Weak supply. |
| 266 | 21.1 Apr. 23. 1936 | C.W | D.S | Brick curb and casing. Strong supply. |
| 267 | 36.1 do. | в,н | D.S | Bored well. Wood curb and casing. Water reported |
| 268 | 48.0 do. | В,Н | D.S | from quicksand. Bored well. Wood curb and casing. Strong supply. |
| ~/~ | | | | |
| 269 | 26.6 June 15, 1936 | в,н | D,S | Bored well. Galvanized casing. Strong supply. |
| 270 | 14.3 do. | В,Н | D, S | Bored well. Wood curb and casing. |
| 271 | 10.7 Apr. 23. 1936 | В,Н | D.S | Wood curb and casing. Strong supply. |
| 273 | 13.9 do. | В,Н | D.S | Wood curb; rock casing. |
| 274 | 79.9 Apr. 13. | в,н | D.S | Bored well. Galvanized curb and casing. Weak supply. Water reported hard and turbid. |
| 276 | 108.0 June 20, | В, Н | D.S | Bored well. Galvanized casing. Weak supply. Water |
| 277 | 1936 13.3 Apr. 13. | B,H | D.P | reported too hard for washing. Wood curb; brick casing. Reported strong supply of |
| | 1 936 | | 1 | hard, limy water. |
| 278 | 55.0 June 20. 1936 | В,Н | D.S | Brick curb and casing. Strong supply. Water reported hard. |

| Fairfield, ple-situa-well of por | <u></u> |
|--|-----------------------|
| 279 2½ miles W. N. Jones Leslie Tidwell 1936 Hilltop 37 36 north 280 3 miles J. L. Shanks — 1928 do. 20 36 north 282 3½ miles do. John Baker 1935 do. 85 6 north 284 3½ miles Ernest Reauchamp Peyton Bros. 1936 — 4,403 — north 284 3½ miles R. H. Cannon John Baker — Gentle 62 6 northwest 285 22 miles J. L. Miller J. C. Ivy 1930 do. 32 36 northwest J. E. Bishop 287 2 miles Jim Vaughan — 1933 Gentle 21 48 northwest J. E. Bishop 287 2 miles Jim Vaughan — 1933 do. 24 60 northwest 289 do. Matt Henderson Vernon Gilliam 1933 do. 24 48 291 1½ miles John Blakely Owner 1925 do. 37 36 northwest northwest 292 1 mile John Norris Leslie Tidwell 1934 Creek bank 293 mile John Norris Leslie Tidwell 1934 Creek bank 295 3½ miles John Norris Leslie Tidwell 1934 Creek bank 296 3½ miles John Norris Leslie Tidwell 1934 Creek bank 296 3½ miles John Norris Leslie Tidwell 1934 Creek bank 297 3½ miles Lake Watson — Centle 500e 298 3½ miles Lake Watson — Centle 55 6 southwest 300 3½ miles Lake Watson — Centle 55 6 southwest 300 3½ miles Lake Watson — Centle 55 6 southwest 300 3½ miles Lake Watson — Centle 55 6 southwest 300 3½ miles Lake Watson — Centle 500e 300 3½ miles Mary John Archie John 1938 Gentle 11 48 300 3½ miles Mary John Archie John 1938 Gentle 11 48 300 1½ miles Mary John Archie John 1938 Gentle 11 48 300 1½ miles Mary John Archie John 1938 Gentle 41 5 500 1½ miles John Northwest Slope 300 30 | ght of asuring int a- |
| 279 24 miles W. M. Jones Leslie Tidwell 1936 Hilltop 37 36 north 280 5 miles J. L. Shanks — 1928 do. 20 36 north 282 34 miles Grnest Beauchamp Peyton Bross. 1935 — 4,403 — north 284 34 miles Ernest Beauchamp Peyton Bross. 1935 — 4,403 — north 284 34 miles R. M. Cannon John Baker — Gentle 62 6 6 1000 6 6 6 6 6 6 6 6 6 | _ |
| 280 3 miles J. L. Shanks 1928 do. 20 36 282 34 miles do. John Baker 1935 do. 85 6 do. 32 miles morth 284 34 miles morth 284 34 miles R. N. Cannon John Baker Gentle 62 6 do. 285 25 miles J. L. Miller J. C. Ivy 1930 do. 32 36 do. 36 37 do. 36 do. 36 do. 36 do. 37 do. | 3 |
| 282 3½ miles do. John Baker 1935 do. 85 6 d d d d d d d d d | 2 |
| 282 3\frac{1}{2} miles | 3.5 |
| Northwest J. L. Miller J. C. Ivy 1930 do. 32 36 northwest J. E. Irvin & Coy Guest 1930 Hill- 32 36 northwest J. E. Bishop Side 287 2 miles Jim Vaughan 1933 do. 24 48 slope 288 12 miles Vell McAdams Owner 1933 do. 24 60 northwest 289 do. Matt Henderson Vernon Gilliam 1933 do. 24 48 do. 291 12 miles John Blakely Owner 1925 do. 37 36 northwest 36 do. 37 36 do. 38 miles John Norris Leslie Tidwell 1934 Creek bank 292 1 mile John Norris Leslie Tidwell 1934 Creek 18 36 do. 36 do. 37 36 do. 36 do. 37 36 do. 36 do. 37 do. 37 do. 36 do. 37 do. 36 do. 37 do. 38 do. 48 do. | |
| 10 | 1 |
| Northwest J. E. Bishop Side 21 48 | 2 |
| Northwest Slope 24 60 | 3 |
| Northwest 289 do. Matt Henderson Vernon Gilliam 1933 do. 24 48 | 2.5 |
| 291 14 miles John Blakely Owner 1925 do. 37 36 northwest John Norris Leslie Tidwell 1934 Creek 18 36 north Dank Dank | 3 |
| 1 mile | 2 |
| north 293 3 mile J. R. Sessions Henry Lee 1934 Gentle 22 48 100 | |
| North Slope 1929 Hilltop 194 36 | 3 |
| West 298 4 miles Lake Watson Gentle 55 5 6 | 2 |
| Southwest Slope Slope Southwest Southwest Southwest Southwest Side Southwest Side Southwest Side Southwest Slope | 3 |
| Southwest Side | 2 |
| Southwest 302 2½ miles Billie Watson 1929 do. 25 6 | 2 |
| Southwest 304 2 miles Mary John Archie John 1933 Gentle 11 48 | 1 |
| Southwest Slope 305 1½ miles Mat McGee Owner 1928 Hill 19 36 Southwest Side 306 1½ miles J. R. B. Cain do. 29 48 South South 307 ½ mile R. P. Slatter Ben Black 1936 Centle 41 6 Slope 309 do. Newt Robison 1925 do. 40 6 | 1 |
| Southwest Side | 2 |
| south 307 mile R. P. Slatter Ben Black 1936 centle 41 6 slope 309 do. Newt Robison - 1925 do. 40 6 | 2 |
| west slope slope 1925 do. Newt Robison - 1925 do. 40 6 | 3 |
| | 2 |
| 310 do. Walter Ely 1920 do. 41 6 | 2 |
| | 3 |
| 311 do. J. H. Eubanks Jim Swinman 1915 do. 47 36 | 4 |
| d/312 City of City of 1935 Flat 506 6 Fairfield Fairfield | 1 |
| 314 1 mile Mrs Misildine 1900 Gentle 21 36 east slope | 2.5 |

-14-

H. L. Chenault, Project Superintendent. Water Level Depth Date of Pump No. Use Pemarks below measure- and of measur- ment power water ing point b/ c/ (feet) 279 28.5 June 20. B,H D.S. Brick curb and casing. Strong supply. Water report-1936 ed hard. 280, 17.2 Apr. 13. D.S Brick curb and casing. Strong supply. B.H 1936 282 82.4 do. B.H Bored well. Wood curb and casing. Weak supply. Water reported unfit for washing or cooking. 282a None N Drilled well. Oil test. see log. 284 53.9 Apr. B.H Bored well. Wood curb and casing. Water reported 3, D.S 1936 hard. 285 32.0 do. B, H D, S Concrete curb and casing. 286 34.2 do. Wood curb; brick casing. Water reported from quick-B,H D sand. Strong supply. 287 18.1 do. B. H | Wood curb; brick casing. 288 21.8 do. B, H Brick curb and casing. D.S 289 16.1 do. B, H D Wood curb; brick casing, top to bottom. supply. 291 35.9 do. Brick curb and casing. Weak supply. B, H T 292 16.5 do. B, H Wood curb; brick casing. Water reported hard. 293 19.9; do. D C.H Wood curb; brick casing. 296 43.9 Mar. 19, B, H D.S | Wood curb; 5 feet brick casing at top. Water report-1936 ed fairly soft. 298 46.7 May 29. Bored well. Wood curb and casing. Water reported B.H D.S 1936 hard. 299 2.5 do. B,H D,S Brick curb and casing. Strong supply. 300 35 Concrete curb; brick casing. Water reported good B, E, 3 e/ D.S until pump was installed. 302 22.6 Mar. 26, B.H Wood curb and casing. D.S Bored well. 1936 from quicksand. 304 6.8 do. B, H D, S Wood curb; steel casing. Water reported from quicksand. 305 16.0 В.Н do. Wood curb and casing. D.S 306 30.7 do. D.S Galvanized curb; 10 feet galvanized casing at top. Weak supply. Water reported hard. 307 32.3 do. B, H Bored well. Wood curb and casing. Water reported hard. 309 34.0 do. Bored well. Wood curb and casing. $B \cdot H$ D.S Strong supply. 310 38.1 do. B,H D Bored well. Wood curb and casing. Water reported hard. 311 33•9 Wood curb; brick casing. Strong supply. do. B.H. D reported hard. 140 312 T,E,25 Drilled well. See log. e/ P 314 13.1 June 15, B, H S Galvanized curb and casing. Strong supply. Water 1936 reported hard.

=15=

| | Recor | rds of wells and | springs in Free | stone | County- | -Contir | ued. | |
|--------------|--------------------------------|-------------------------|-----------------------|-------|------------------------------------|------------|--------------------|---|
| No. | Distance from Fairfield | Owner | Driller | com- | graphic situa- | of | eter of | Height of measuring point above ground(ft.)a/ |
| 315 | l≟ miles east | Johny Castle | Sam Moore | _ | Gentle slope | 21 | 36 | 3 |
| 316 | lg miles east | J. C. Ritter | Owner : | 1924 | , | 15 | l | 2 |
| 317 | 12 miles ; east | J. F. Day | Leslie Tidwell | | . ! | 20 | ļ | 3 |
| 318 | 2 miles northeast | Marion Willard | Wes Hatcher | 1932 | Gentle slope | 30 | 36 | 1.5 |
| 3 1 9 | $1\frac{1}{3}$ miles northeast | Tom Lindley | đo. | 1935 | do. | 28 | 36 | 2 |
| 322 | اور miles northeast | F. M. Kent | Giles Kent | 1935 | ' | 20 | 24 | 2 |
| 324 | 埠 miles northeast | John Metzger | Joe Folk | 1926 | Hilltop | 74 | 6 | 2 |
| 325 | ុ 4½ miles northeast | Keeney & Hall | John Baker | 1914 | Hill- side | 19 | 36 | 2 |
| No. | Distance from Young | 0 wner | Dr iller | com- | Topo- graphic situa- tion | _ | eter of well | Height of measuring point a- lbove gro- lund(ft.)a/ |
| 400 | 9 miles northwest | J. & G. V. Williams | | | Rolling | 28 | 36 | 2.6 |
| 401 | 10 miles north | Chris Tally | I. Nealy | 1907 | Creek bottoms | 95 | 48 | 3 |
| 402 | 9불 miles north | Chas. Reese | Ed. Daniel | 1928 | Hilly | 79 | 48 | 3.2 |
| 403 | 9 miles north | E. E. Nettles | Bill Newton | 1914 | Hilltop | 63 | 10 | 2.3 |
| 404 | do. | L. Granville | Henry Smith | 1900 | Hilly | 35 | 36 | 2.8 |
| 405 | $6\frac{1}{2}$ miles north | Scott Ward | | | Bottom land | 23 | 42 | 2.2 |
| 406 | 5 miles north | C. H. & E. M. Watson | | 1915 | Gentle slope | 1 5 | 36 | 0.5 |
| 408 | 43 miles northwest | H. C. Granberry | Joe Foll: | 1924 | do. | 63 | 6 | 2 |
| 409 | 4 miles northwest | 1 | Ernest Folk | 1936 | Flat | 68 | 6 | 2.5 |
| 413 | laniles northwest | | Joe Folk | 1929 | Gentle, slope | 30 | 6 | 1.5 |
| 414 | la miles northwest | | do. | 1929 | do. | 105 | 6 | 4 |
| 416 | 22 miles northeast | R. Q. Young | - | | Draw ! | 10 | 36 | 2.6 |
| 417 | 7章 miles northeast | Stanolind Oil Co. | McMasters- Pomeroy | 1936 | River bottoms | 370 | 14 | med design |

a/ Measuring point was usually top of casing, top of pump base, or top of well curb.

b/ T, turbine; A, air-lift; C, cylinder; B, bucket; E, electric; G, gasoline engine;

W, windmill; H, hand; number indicates horsepower.

-16-H. L. Chenault, Project Superintendent. Nater Level No. Depth, Date of Pump Use Remarks below measure- and of measurment power water ing point ъ/ c/ (feet) 315 18.6 June 15, Brick curb and casing. strong supply. Water report-B.H D, S 1936 ed soft. 316 13.4 do. B, H D.S Galvanized curb and casing. Weak supply. Water reported slightly hard. 317 Strong supply. 21.1 Brick curb and casing. water reportdo. B.H ed slightly hard. 318 17.0 do. D.S | Brick curb and casing. C. W Strong supply. Water reported hard and salty. 319 26.8 June 20. D.S. Brick curb and casing. Strong supply. Water report-B.H 1936 ed slightly hard. 322 Wood curb and casing. Never fails. 17.7 Apr. 23. B, H 1936 Bored well. Wood curb and casing. Water reported 324 72.0 May 1, B,H1936 from black quicksand. D.S. Wood curb; brick casing. 325 Reported originally soft, 17.1 do. B,H but now hard. Water Level Depth Date of , Pump No. Use Remarks below measure- and of measurment power water ing point b/ c/ (feet) 400 26.6 Sept. 21, Wood curb; stone casing, top to bottom. B.H D.SI Never 1396 fails. Reported water becomes turbid at times. 401 Brick curb and casing. Never fails. 67.1 do. B,H D.S slightly hard. 402 47.9 Wood curb; brick casing. Permanent supply. do. B.H D.S 403 Wooden curb and casing. Weak supply. Water report-56.5 do. B. H : D.S ed hard. 404 Brick curb and casing. Reported nearly fails in 33.5 Sept. 23. B, H D.S 1936 405 19.8 Sept. 21, Wood curb and casing. Strong supply. Reported sup-B.H D,S 1936 plies 14 barrels a day to community. 406 14.7 Brick curb and casing. Weak supply. Apr. 24. B.H D,S 1936 408 60.6 Bored well. Wood curb and casing. Reported weak do. B,H D.S supply of soft water. 4091 64.9 do. B.H Bored well. Wood curb and casing. Strong supply. 413 27.1 do. Bored well. Wood curb and casing. Strong supply of B.H soft water reported. 414 94.1 do. B, H D.S Bored well. Wood curb and casing. Strong supply. Water reported slightly hard. 416: 6.6 Sept. 23. Wood curb and casing. Located near edge of wide B.H S

4 inch iron casing. Flow due to gas

river bottoms.

Drilled well.

Indi

417

1936

Flows Sept. 22: None

pressure. Supplies boiler. See log. c/ I, irrigation; Ind, industrial; P, public; D, domestic; S, stock; N, not used.

d/ No water sample collected for analysis.

e/ Water level reported.

| | Reco | rds of wells and | -17- springs in Free | estone | County- | -Conti | nued. | |
|--------|-------------------------------------|-----------------------|--|--------------|------------------------------------|---------------------|--------------------|---|
| No. | Distance from Young | Owner | Driller | com- | Topo- graphic situa- tion | Deoth of well (ft.) | eter of well | Height of measuring point a-bove gro-und(ft.)a/ |
| d/417a | 7½ miles northeast | Hetty Berk | Amerada Pet. Corp | 1935 | 500 to a | 4,025 | | |
| 418 | In Young | J. H. Granberry | Joe Fol: | 1929 | Gentle slope | 47 | 6 | 1.5 |
| 419 | do. | Boyd Henderson | Ernest Folk | 1933 | Flat | 41 | 6 | 3 |
| 421 | mile southwest | Mrs. May Casey | Roy Minchew | 1934 | Gentle slope | 48 | 36 | 2 |
| 424 | 2 miles southwest | Brady Gunter | Ernest Folk | 1935 | | 23 | 6 | 3 |
| 425 | 13 miles south | J.S. Newman | Ted Owens | 1880 | Hilltop | 55 | 48 | 3 |
| 426 | $\frac{1}{2}$ miles south | John McCann | Bob Bean | 1915 | do. | 65 | 48 | 3 |
| 436 | $\frac{4}{4}$ miles southeast | F.E. Hill | Eugene Day | 1915 | Hill- side | 23 | 36 | 3 |
| 437 | do. | do. | ************************************** | | do. | Sprin | g | - |
| No. | Distance from Butler | Owner | Driller | com- ple- | Topo- graphic situa- tion | of ⊓ell | eter of well | Height of measuring point above gro-und(ft.)a/ |
| 506 | 7½ miles | F. E. Hill | Howard Mainus | 1933 | centle slope | 31 | 36 | 2 |
| 517 | 25 miles west | Burleson & Red | Owners | 1930 | do. | 19 | 36 | 2 |
| 518 | 2½ miles west | do. | do. | 1929 | đo• | 20 | 36 | 3 |
| 521 | $2\frac{1}{4}$ miles west | Joe Parker | Alfred Manning | g | do. | 19 | 36 | 3 |
| 522 | do. | Mrs. J. C. Robison | Out the | 1880 | Hilltop | 25 | 48 | 14 |
| 524 | 2½ miles southwest | Mally Woods | Will Jones | 1905 | Gentle slope | 28 | 48 | 3 |
| 525 | 3분 miles southwest | Shilo School | do. | 1915 | do. | 1 5 | 36 | 1 |
| 527 | 3를 miles southwest | Fanny Malone | Ed. Malone | 1915 | Hilltop | 16 | 514 | |
| 528 | 4 miles southwest | do. | Coeff in the | 1900 | do. | 22 | 36 | 3 |
| 530 | 35 miles southwest | | Owner | 1910 | Hill- side | 14 | 24 | 3 |
| 535 | 2½ miles southeast | | do. | | do. | 15 | 72 | 2 |
| 537 | 3 miles south | B. B. Kimbell | do. | | Hilltop | · | 48 | 2 |
| 538 | 2½ miles south | Robert Mims | Jake Carter | | Hilltop | | 48 | |
| 540 | $\frac{3\frac{1}{4}}{\text{south}}$ | Myrtle Webb | Harrison | 1933 | Ì | 34 | 48 | ŗŕ |
| 541 | <u>عَدِّ</u> miles south | J. W. Murdock | the disease of the same of the | 1935 | Flat | 10 | 36 | 1 |

-18-H. L. Chenault, Project Superintendent. Water Level No. | Depth Date of Pump Use Pemarks below measure- and ment' power water measuring point ъ/ c/ (feet) 417a Drilled well. Oil test. see log. None 418 39.4 Apr. .23. B.H Bored well. Wood curb and casing. Strong supply. D.S 1936 Reported good quality of soft water. 419 39.0 do. Bored well. Wood curb; wood casing. Never fails. B.H D.S 421 44.9 June 15. B.H Brick curb and casing. Strong supply. Water report-D.S 1936 ed hard. 424 20.9 do. B,H Bored well. Wood curb and casing. strong supply. D, S Water reported slightly hard. 425 49.8 do. Concrete curb and casing. Strong supply. B.H 426 51.6 Renorted soft do. B.H Wood curb; log casing. Never fails. D.SI water. 436 14.6 Apr. 27. В,Н Galvanized curb and casing. Strong supply. D.S. 1936 Flows do. Wood curb. Estimated flow; I gallon a minute from None D.S two openings in white sand. No. Depth Date of Pump Use Remarks below measure and ofmeasurment power water ing point <u>b/</u> c/ (feet) 506 30.9 May 12, D, S B.H Galvanized curb and casing. Never fails. 1936 517 16.5 Brick curb and casing. Located 20 yards west of June 9. C.E. D 1936 well number 518. Reported alum taste. Never fails. 518 17.7 do. B.H Brick curb and casing. Strong supply. good quality of water. 521 10.7 do. B.H D.S Brick curb and casing. Never fails. Reported soft water. 522 13.7 do. B, H Wood curb; rock casing. Strong supply of hard water D, S reported. 524 7.7 do. B, H Wood curb: rock casing. Good supply. Reported bad taste in rainy weather. 525 16.9 do. Wood curb; rock casing, top to bottom. B.H D Reported slightly hard. 527 7.8 do. B, H Wood curb; rock casing. Never fails. D.S 528 17.9 do. B.H Do. D.S 530 11.4 June 19. Wood curb; rock casing, top to bottom. B.H Strong supply 1936 Reported soft water. 535 10.5 do. B, H Wood curb; b feet wood casing at top. Never fails. Reported soft water. 537 61.0 do. Wood curb. Never fails. Reported soft water. B.H 538 17.8 do. B.H D, S Wood curb. Strong supply. Water reported slightly hard. 540 36.8 do. B.H Wood curb. Weak supply. Yater reported hard. 541 11.4 do. B.H D.S. Wood curb and casing. Weak sumply. Water reported

slightly hard.

-19-

| | 110001 | ds of wells and s | l printing in proc | 5 00110 | 00 311 53 | -0011011 | i dod. | |
|-------------|-----------------------|-----------------------|--------------------|---|--------------|------------|-------------|--|
| No. | Distance | Owner | Driller | Date | Topo- | Dep th | Diam- | Height of |
| | from | • | | | graphic | of | eter | measuring |
| | Eutler | 1 | , | | situa- | well | of | point a- |
| | | + | | ted | tion | (ft.) | well | bove gro- |
| | | 1 | | | | , - | (in.) | |
| 543 | $\frac{4}{4}$ miles | M. Danel | | | Hill- | Sprine | | |
| | southeast | ; | | | side | | 1 | |
| 544 | 4 miles | Mrs. Keeling | Rob Dunbar | 1906 | do. | 56 | 48 | 3 |
| 546 | southeast | E. Guess | Owner | 1000 | Gentle | 36 | 48 | 2 |
|),0 | southeast | 11. 0.0022 | Owner | ٥٥رــ | slope | , ,0 | 1 | |
| 547 | 43 miles | Jesse Lee | Jesse Lee | 1929 | do. | 26 | 30 | 3 |
| | southeast | | | | | i | ļ | |
| 548 | 5 miles | Mrs. E. E. | | 1920 | do. | 11 | 36 | 1 |
| d/553a | southeast 7 miles | Haddon H. R. Dietz | Humble Oil | 1933 | | E E00 | 6 | <u> </u> |
| المرزرات | east | n. K. Diecz | & Ref. Co. | ±300 | | 5,590 | , 0 | |
| | | | & Ross Oct | | | | | |
| No. | Distance | Owner | Driller | Date | : Topo- | Denth | Diam- | Height of |
| 1100 | from | 0111101 | Diarrot | | graphic | - | eter | measuring |
| 1 | Dem | | | | situa- | well | of | point a- |
| | ,5011 | | | ted | | (ft.) | well | bove gro- |
| | | 1 | | vea | UI OII | (10.) | | $\operatorname{und}(\operatorname{ft.})a/$ |
| d/600a | 6 miles | Wm. R. Boyd, Jr. | J. L. | 1937 | | 4,507 | | |
| | northwest | - | Collins & Co. | | | | 1 | 1 |
| 601 | 6분 miles north | William Jones | Edwin Jones | 1 933 | district to | 24 | 48 | 3 |
| 602 | 7 miles | J. R. B. Cain | | | Hill- | 1 5 | 48 | 3.5 |
| (03 | nor th | | | | side | | | |
| 603 | do. | do. | Leslie Tidwell | 1933 | i } | 25 | 36 | 3 |
| 604 | do. | do. | B. P. Cain | 1901 | slope do. | 27 | 36 | 3 |
| | | | 000 | 3 | | 1 | | |
| 606 | do. | F. E. Hill | Will Davis | 1935 | do. | 40 | 36 | 3 |
| | | | | | | | | |
| 607 | do. | do. | | | do. | 39 | 6 | 3 |
| 609 | 6 miles | Riley Middleton | Jimmy Gordon | 1931 | do. | 61 | 36 | 3 |
| | nor th | | ; | | | | | |
| 610 | 8 miles | W. A. Parker | Roy Minchew | 1934 | d o. | 68 | 36 | 2.5 |
| 795 | north | | ; 1 | 3055 | | ~= | 7 | 4 |
| 611 | 7년 miles north | Bryant Daniels | | 1933 | do. | 85 | 6 | 1 4 |
| 613 | do. | Grady Ivy | Vernon Gilliam | 1934 | Hill- | 25 | 36 | 3 |
| | | 3. 3. 3. 4. V | 1 | · • • • • • • • • • • • • • • • • • • • | side | -2 | , | , |
| 614 | 8 miles | Clenon Mullin | Owner | 1934 | do. | 33 | 36 | 2 |
| | north | | , | | , , | | | <u> </u> |
| 616 | $10\frac{1}{2}$ miles | | Will Creel | 1935 | do. | 22 | *** | 2 |
| 618 | northeast 9 miles | N. L. Richardson | Geo. Creel | 1931 | do. | 30 | 36 | 2 |
| , (| northeast | T. T. VICTIGIASON | Goo! Oreer | <u> - フリエ</u> | <u>u</u> 0, | ار | ٥ر | · C- |
| 622 | 8 miles | G. J. Weaver | Alford | 1910 | Hill- | 19 | 72 | 3 |
| | northeast | | | | side | | · | |
| 65.11 | 7½ miles | Joe McAdams | Omer | 1933 | Gentle | 31 | 6 | 3 |
| | ~~**+h~~~+ | 1 | | 1 | slope : | i | | |
| 625 | northeast do. | Mt. Zion School | | | Flat | 39 | 36 | 4 |

| | | | 77 | T #1- | →20- |
|---------------------------------------|---|----------|------------|---------------|---|
| | We te | r Level | н. | Tr. Cue | enault, Project Superintendent. |
| No. | | Date of | 73 | 77 | Townselv. |
| 140. | Dob our | pate of | Lamb. | | Remarks |
| | | measure- | | of | |
| | measu | | _ | water | |
| , | ing po | | <u>b</u> / | c/ | |
| 1 | (feet) |) | _ | | |
| 543 | Flows | June 19. | None | D | Tood box curb. Estimated flow; one gallon a minute |
| | | 1936 | 1,0110 | ע | from one opening in quicksand. |
| 544 | 25.8 | do. | B.H | D,S | Wood curb. Strong supply. Reported soft water. |
| J | -)40 | | D.H. | D, S | 14000 Garo. Strong amony. Weborted acts wasci- |
| 546 | 75 0 | 30 | | | |
| 7+0 | 35.2 | do. | B,H | D.S | Wood curb. Weak supply. Reported soft water. |
| <u> </u> | | | | | |
| 547 | 23.2 | do. | В,Н | 7, 5 | Wood curb; brick casing. Never Bils. Reported |
| - | | | | | soft water. |
| 548 | 7.2 | do. | None | N | Wood curb and casing. Strong supply. Reported soft |
| | j | | , | | water. |
| 553a | ***** | ~~ | None | N | Drilled well. Oil test. See log. |
| 1 | | | | 11 | Drawor Horas Own top of Dea 84 |
| ==== | 444 - J | | | | |
| 37 | | Level | _ 1 | | _ |
| No. | | Date of | | Use | Remarks |
| 1 | below; | measure- | and , | of | |
| | measur | - ment | power | water | |
| t | ing po | int | b/ | c/ | |
| ! | (feet) |) | - | | |
| 600a | | | None | | Taranta |
| 0000 | | | Mone | Ŋ | Drilled well. Cil test. See log. |
| 607 | - AL A | | - | | |
| 601 | 5,1.9 | | B,H | D,S | wood curb; 8 feet log casing at top. Reported soft |
| 7-1-4- | | 1936 . | | | water. |
| 602 | 10.1 | do. | B.H | D,S | Wood curb; 8 feet galvanized casing at top. |
| | | | | | |
| 603 | 22.5 | do. | B,H | D,S | Wood curb; brick casing. Strong supply. Reported |
| | | | | , , | soft water. |
| 604 | 21.9 | do. | B, H | D.S | Wood curb; brick casing, top to bottom. Reported |
| , | _ | • | | | hard water. |
| 606 | 39.0 | Apr. 25. | в.н. | | Wood curb; brick casing; weak supply. Reported soft |
| į | JJ " | 1936 | | 2,0 | water. |
| 607 | 33.4 | | В.Н; | 70 0 | Bored well. Wood curb; wood casing. Weak supply. |
| 001 | J)• T | uo. | D. 11 | D,S | 9 |
| 609 | E0 7 | 3 - | | | Reported soft water. |
| 009 | 52,1 | do. | B,H | S | Brick curb; brick casing, top to bottom. Strong |
| 7-1 | , , , , , , , , , , , , , , , , , , , | | | | supply. Reported hard water. |
| 610 | 64.4 | Apr. 7. | В.Н. | D.S | Brick curb; brick casing. Strong supply. Reported |
| | | 1936 | · | | hard water. |
| 611 | 81.9 | do. | В,Н | D.S | Bored well. Wood curb; wood casing. Weak supply. |
| | | | | 4 | Reported hard water. |
| 613 | 15.1 | do. | C.W | D, S | Brick curb and casing. Reported water from quick- |
| | • | , | | 1 | sand. Strong supply. |
| 614 | 33.2 | do. | В.Н. | D.S | Wood curb: 10 feet wood casing at top. Yeak supply. |
| · · · · · · · · · · · · · · · · · · · | J) • • | | | ل برند | Reported soft water. |
| 616 | 70.0 | Apr. 27, | B,H | | Wood curb. Reported soft water. Never fails. |
| 010 | → ク●ブ | | D. II | D,S | Mood onto. Webothed sore Maner. Mener ratte. |
| 518 | ~ ~ ~ ~ | 1936 | | | |
| OTO | 26.8 | do. | B,H | *** | Wood curb; wood casing, top to bottom. Reported |
| سلبيس | | ; | | 1 | soft water. Never fails. |
| 622 | 3.5 | Apr. 7. | B,H | D,S | wood curb and casing. Reported hard water. Never |
| | | 1936 | 1 | | fails. Reported flows in wet weather. |
| 624 | 31.2 | đo. | в,н | | Bored well. Wood curb and casing. Weak supply. |
| 1 | - · · | | | • | Reported hard water. |
| 625 | 26.6 | do. | B,H | | Wood_curb; rock casing, top to bottom. Never fails. |
| | | - 7 T | ا هند و سد | | Reported soft water. |
| | | | | | TODO TOOK BOTA MONOT ! |
| | | | | | |

-21-Records of wells and springs in Freestone, County-Continued. No. Topo- | Depth Diam- Height of Distance Owner Driller Date eter measuring from graphic; of comof point a-Dew plesituawell (ft.) well bove groted tion (in.) und(ft.)a/ 得 miles 626 48 6. 2 A. F. McAdams Flat Ben Black 1924 northeast 627 3 do. L. V. Jones Owner 1931 do. 25 36: 629 do. 48. 1931 Hill-22 J. F. Emmons J. F. Emmons side do. 630 36 3 vernon Gilliam 1934 64 J. S. Ivy do. 1 631 7号 miles Leonard Emmons 1925 Gentle 49 6 Joe Folk north slope 633 5 miles 14 79 Ь W. L. Glazener John Baker 1920 do. north 635 48 2 do. 1920 Hill-Sim Chavers 65 side 637 5 miles do. 14 36 3 1923 do. Owner nor th 638 do. 3 W. R. Boyd, Jr. Jerry Philpott 1933 72 61 do. 3章 miles 640 30 3 T. C. Gardner Ben Mims 1935 Hilltop 27 north 641 4 miles 1933 Gentle 45 6 1.5 Wm. McIlveen Bob Black nor th slope 642 4 miles 41 1.5 do. 1929 6 do. do. north 644 2늘 miles 2 Edith Johnson Owner 1927 Hill-36 nor th side d/644a 2 miles Minyard White 1933 Sun Oil Co. 4,762 **1**03 north 647 In Dew W. J. Lanc, Jr. 6 Ō R. C. Black 1930 Flat 64 648 do. Dew School do. 1931 48 12. 0 do. 649 do. A. H. White L. D. Hartley 1932 Hillton 18 36 2 650 do. W. C. Clark 3 Jeff Ham 1895 do. 13 36. a mile 65I J. A. Harrison Robert Black 1930 Hill-45 3 61 south side 653 l mile W. F. Swinburne 47 36: Gentle 0.5 --northeast slope d/654 l j miles Robt. Moody ---Branch Spring _--__ northeast' 13 miles 655 A. Bradshaw Hill-45 36 Owner 1929 3 northeast side7 miles 662 Grady Weaver 1890 48 3 do. 33 ** northeast

1900

do.

31

3

663

do.

G. J. Weaver

a/ Measuring point was usually top of casing, top of pump base, or top of well curb. 5/ T, turbine; A, air-lift; C, cylinder; B, bucket; E, electric; G, gasoline engine; W. windmill; H. hand; number indicates horsepower.

| | | | H | . L. C | henault, Project Superintendent. |
|--------------|-----------------|---|-------------|------------------------------|--|
| | | r Level | | | |
| $No \cdot $ | Depth | Date of | Pump | Use | Remarks |
| | below | measure- | and | 'of | |
| | measu | | power | | |
| ; | ing po | oint ' | b/ | e/ | (|
| 4 | (feet | | | . 🔟 | |
| 757 | <u> </u> | | | i La la granda | |
| 626 | 35•7 | June 9, | B,H | D, S | Bored well. Wood curb and casing. Strong supply. |
| | | 1936 · | | | Reported hard water. |
| 627 | 19.6 | do• , | B,H | D,S | Brick curb and casing. Strong supply. Reported |
| | | i | | | hard water. |
| 629 | 21.1 | Apr. 7. | None | N | Brick curb; brick casing, top to bottom. Weak supply |
| | | 1936 | | - | Reported hard water. |
| 630 | 64.6 | do. | C.W | n c | Brick curb; brick casing, top to bottom. Reported |
| ٥٥٥ | ♥ / • ♥ | 40. | O + W | وربر | soft vater. Never fails. Water reported from sand. |
| 631 | 75 11 | | T) 77 | | |
| 051 | 35.4 | do. | В,Н | D, S | Bored well. Wood curb; wood casing, top to bottom. |
| 7 | | | | | Strong supply. Reported soft water. |
| 633 | • | | В, Н | D.S | Bored well. Wood curb; wood casing, top to bottom. |
| | | | | | Never fails. Reported hard water. |
| 365 | 65.3 | Mar. 27. | B,H | D,S | Brick curb; plastered casing, top to bottom. |
| | | , 1 936 | | | |
| 637 | 15.3 | do. | В,Н | D.S | Corrugated iron curb; 36 inch corrugated iron casing, |
| | | · . | ; | | top to bottom. Weak supply. Reported soft water. |
| 638 | 63.9 | do. | в,н | | Bored well. Wood curb; wood casing, top to bottom. |
| ٠,- | <i>□J□J</i> | 1 | 10921 | | Strong supply. Reported hard water. |
| 640 | 26.6 | Mar. 12, | В,Н | | Wood curb; brick casing, top to bottom. Weak supply. |
| O-rO | | | B, H | D: S | wood cure; brick casing, top to bottom. Wear suppry. |
| 7 77 7 | | 1936 | | | |
| 641 | 39•9 | Apr. 26, | В,Н | | Bored well. Wood curb; wood casing, top to bottom. |
| | | | | · · | Strong supply. Reported hard water. |
| 642 | | Apr. 25. | В,Н | D.S | Bored well. Wood curb; wood casing, top to bottom. |
| | | 1936 | | | Weak supply. Reported hard water. |
| 644 | 4.2 | do. | B,H | D, S | Wood curb; wood casing, top to bottom. Mever fails. |
| | | | ; | 1 | Reported soft water. |
| 644a | | *************************************** | None | N | Drilled well. Cil test. See log. |
| ŧ | | 1 | | - | |
| 647 | 48.0 | Mar. 27. | 0.6.2 | D | Bored well. Wood curg; wood casing, top to bottom. |
| | , | 1936 | 0,012 | ו | Never fails. Reported hard water. |
| 648 | 38.0 | | C, G, 2 | P | Bored well. Clay tile curb; 12 inch clay tile casing. |
| 0-70; | ن و در | 1 40. | Urtre | F : | |
| 610 | 70.0 | | | | top to bottom. Strong supply. Reported hard water. Brick curb; brick casing, too to bottom. Weak sumply |
| 649 | 12.2 | do. | в,н | D,S | - |
| 7 | | | | | Reported soft water. |
| 650 | 9.6 | June 9, | В.Н | D, S | Brick curb; brick casing, top to bottom, Never fails. |
| | | 1936 | | | Reported soft water. |
| 651 | 36.9 | Mar. 27, | B,H | D,S | Bored well. Wood curb; wood casing, top to bottom. |
| | | : 1936 | i | | Never fails. Reported hard water. |
| 653 | | Apr. 25. | C.W | D.S | Brick curb; brick casing, top to bottom. Strong |
| ; | - ' | 1936 | 1 | ~ | supply. Reported slightly hard water. |
| 654 | Flows | | None | D.S | Estimated flow; 1 gallon a minute from one opening |
| | | , | ., | 2,0 | in white water sand. |
| 655; | 44.3 | do. | в,Н | D C | Brick curb; brick casing, top to bottom. Reported |
| ∪ <i>)</i>) | TT+3: | i uo. | TD * 11 1 | ш, р. | |
| 775 | 7-7-11 | | | | soft water. Water reported from quicksand. Never |
| 662 | 53.4 | May 6, | B,H | D.S | |
| | | 1936 | | | ed water hard last four years. Water reported from |
| 663 | 31.1 | do. | B,H | D.S | Wood curb. Strong supply. red packed sand. Never fail |
| | | · | | | Reported soft water. |
| ~/ + | 2 2222 | motion. To | nd in | 3224 + 225 | olt D. muhlint D. Jomestint G. otoplet M. not seed |

reported soft water.

c/ I, irrigation; Ind, industrial; P, public; D, domestic; S, stock; N, not used.

d/ No water sample collected for analysis.

e/ Water level reported.

-23-Records of wells and springs in Freestone County-Continued. No. Distance Owner Driller Date Topo-Depth Diam- Height of from eter com- graphic ofmeasuring Dew ple- situapoint awell ofted tion (ft.) |well bove gro-(in.) und(ft.)a/ 665 42 miles 1910 Hill-W. N. Evans Ben Black 70 eāst side 3≅ miles 667 Wood George 1930 d.o. 26: 6 2 do. east 668 do. do. 3 do. 31 36 -- Green 1936 670 3 miles A. C. Anderson Ben Black 1910 Hilltop 35 1 36 3 east 675 43 miles R. E. Petty Charlie 1920 Hill-48 17 3 east Luckett side 676 5 miles Ben Black 20 John Adkins 1933 do. east 677 5g miles A. B. Adkins 6 2 do. 1931 do. 65 east 679 65 miles O. W. Killiam 60 2 do. 28 east 681 9 miles Abe Jones 36 Owner 1927 do. 13 east 682 8늘 miles do. Abe Jones 1926 Hilltop 22 36 2 east 683 do. Dan Bryant Dan Bryant 1934 | Hill-45 36 3 side 685 do. Jim Jones Jim Jones Gentle 34 36 1 2.5 slope 687 85 miles Dan Humpton 36 1.5 Mary Collins 1935 10 east 688 8 miles 60 George Moton 1929 Gentle 20 3 Owner east slope 691 5층 miles W. M. Peyton 1932: Flat 12 36! 1.5 east 692 6 miles A. weaver 1926 Gentle 19 2 J. B. Word --southeast slope 693 do. do. 36. 1895 do. 3•5 d/699a 9늘 miles Franz Thiele Roxana Pet Co. 1927 do. 3.955 15 east No. Distance Owner Driller Date Topo-Depth Diam- Height of from of eter measuring com- graphic Teague ple-situawell ' ofpoint a-(ft.) well bove groted tion (in.) und(ft.)a/ d/804a In Teague City of Teague Layne-Texas Co 1910 952 9-5/8 806 la miles Jim Roper 36 -- Owens 1905 Gentle 3 eas t slope 808 2 miles Hill-30 2 B. P. Compton 22 nor th side 810 3点 miles Lake yatson Floyd Rankin 1932 Hilltop 36 17 3 northeast 811 36 35 miles G. W. Burleson A . J. Johns 1930 2 32 do. northeast

#214.

F. I. Chenault, Project Superintendent,

| | | | H. | L. Ch | enault, Project Superintendent. |
|--|-----------------|----------|-------------|-------------|---|
| | | Level | | | |
| No. | | Date of | | | Remarks |
| | , | measure- | | | |
| | measur | | | water | |
| | ing po | | <u>b</u> / | <u>c/</u> | |
| | (feet) | | | | |
| 665 | 66.1 | June 9, | B, H | D.S | Bored well. Galvanized curb; 8 inch galvanized |
| | | 1936 | | 1 | casing, top to bottom. Weak supply. Reported hard |
| 667 | 16.2 | do. | в,н | D,S | Bored well. Wood curb; wood casing, top to water. |
| | | | | | bottom. Strong supply. Reported hard water. |
| 668 | 16.1 | do. | В.Н | D, S | wood curb; no casing. Never fails. Reported soft |
| | 1 | 1 | | 1 | .water. |
| 670 | 15.0: | do. | в,н | D.S | Wood curb; wood casing, top to bottom. Strong |
| | | 1 | | | supply. Reported soft water. |
| 675 | 5.4 | do. | В,Н | D,S | Wood curb; I foot wood casing at top. Strong supply. |
| | 1 | ł | | 1 | Reported soft water. |
| 676 | 14.6 | do. | B,H | D, S | Bored well. Sheet iron curb; wood casing, top to |
| 1 | | | | | bottom. Never fails. Reported soft water. |
| 677 | 60.5 | do. | В,Н | | Bored well. Wood curb; wood casing, top to bottom. |
| | | | | 1 | Weak supply. Reported soft water. |
| 679 | 27.8 | do. | B,H | D, S | Wood curb; 2 feet wood casing at top. Weak supply. |
| 10, | | | 277 21 | J. D. | Reported soft water. |
| 681 | 8.1 | do. | В,Н | D.S | Wood curb; wood casing, top to bottom. Strong sup- |
| | | 1 | 17 2 11 | ט יע | ply. Reported soft water. |
| 682 | 15.6 | do. | В,Н | D | Wood curb; wood casing, top to bottom. Strong sup- |
| 002 | ±) ▼ ∪ ; | 40. | 77.477 | ע | ply. Reported soft water. |
| 683 | 46.41 | do. | В,Н | D,S | Do. |
| | 70.7 | 40. | D) R | ם יע | ±10.€ |
| 685 | 34.7 | do. | B,H | D.S | Wood curb; 10 feet brick casing at top. Weak supply. |
| 00), | | u.o. | D • II | D ⇒ D | Reported soft water. |
| 687 | 10.0 | do. | В,Н | D, S | wood curb; 10 feet log casing at top. Weak supply. |
| 001 | 10.0 | 40. | D,n | D+2 | Reported hard water. |
| 688 | 7-5 | do. | В,Н | D,S | Wood curb; 10 feet wood casing at top. Never fails. |
| , | 1.0 | uO. ; | D, H | ט יע | Reported soft water. |
| 691 | 10 11 | Apr. 30, | В,Н | | wood curb; wood casing, top to bottom. Strong supply. |
| , 200 | | 1936 | D ; fl | | Reported soft water. |
| 692 | 18.2 | do. | 77 11 | 77.7 | Wood curb. Strong supply. Reported hard water. |
| U)E | 10.2 | uo. | B,H | D,S | Mood onto. 2 crous subbra. Reborted usig as set. |
| 693 | 12.1 | do. | B,H | 70.0 | Wood curb; wood casing, top to bottom. Never fails. |
| (V) | ± | uo. | D, R | D,S | Reported soft water. |
| 699a | | | None | N | Drilled well. Oil test. See log. |
| ساررت | | | MOHE | T// | Drifted weit. Oil test. See 108. |
| Programme de la constante de l | | | | | |
| | Water | | | | |
| No. | | Date of | | Use | Remarks |
| | below! | measure- | | of | |
| 1 | measur | - ment | power | water | |
| | ing po | int | b/ | <u>c/</u> | |
| 1 | (feet) | 1 | | _ | |
| 804a | | | | | Drilled water well. See log. |
| 1 | | | | | DITTION WOLLS 200 TOES |
| 806 | 35.0 | Feb. 3, | B,H | D.S | Wood curb; wood casing. Strong supply. Reported |
| - 5 5 ; | | 1936 | 70 \$ 14 | U O | hard water. |
| 808 | | May 29, | B,H | 7. ~ | |
| -00 | | 1936 | D, E. | D.S | Brick curb; brick casing, top to bottom. Never fails. |
| 810 | 16.2 | | | | Reported hard water, |
| 010 | TO. C | do. | В,Н | | Brick curb; brick casing, top to bottom. Strong |
| 811 | 70 = | <u>-</u> | | | sumply. Reported soft water. |
| ATT | 30.5 | do. | В,Н | | Brick curb; brick casing, top to bottom. Weak supply. |
| | | | | | Reported soft water. |
| ! | 1 | | | | |
| | , | | | | |

-25Records of wells and springs in Freestone County--Continued.

| | Reco | rds of wells and | springs in Free | stone | County- | -Contin | ued. | |
|-------|--|----------------------|--|------------------|------------------|---------|------------------|-------------------------------------|
| No. | Distance from | Owner | Driller | com- | Topo- graphic | of | eter | Height of measuring |
| | Teague | | | ted | | (ft.) | (in.) | point a- bove gro- und(ft.)a/ |
| 813 | 3½ miles northeast | | | - | Hilltop | 29 | 6 | 2 |
| 814 | 44 miles northeast | Pyburn School | C. D. Lindsey | 1935 | Hill- side | 26 | 36 | 3 |
| 815 | 4½ miles northeast | Seals | may true | | Flat | 21 | 6 | 1 |
| 817 | 4½ miles east | D. W. Terry | 447 The Late Control of th | 1915 | do. | 51 | 6 | 1 |
| 850 | 23 miles east | P. R. French | Owner | 1932 | Hilltop | 11 | 24 | 2 |
| 821 | do. | do. | Black | 1931 | do. | 46 | 6 | 2 |
| 824 | 2½ miles southeast | Tom Blackmon | | 1915 | do. | 26 | 36 | 1 |
| 827 | اچ miles south | Webb | | 1930 | Flat | 10 | 48 | 1 |
| 828 | 2 miles | P. M. Winfrey | Owner | 1925 | Gentle slope | 19 | 36 | 2 |
| 829 | 25 miles south | Frank Baggett | | 1930 | do. | 21 | 48 | 3 |
| 830 | do. | Marshall Harris | Owner | 1925 | do. | 18 | 36 | 2 |
| 833 | 44 miles south | J. M. Miller | J. M. Miller | 1928 | Hilltop | 65 | 6 | 3 |
| 835 | 3½ miles south | W. C. Miller | W. C. Miller. | 1935 | Gentle slope | 12 | 48 | 3 |
| 836 I | do• | Ed. Martin | Ed. Martin | 1920 | do. | 16 | 36 | 4 |
| 837 | 3ై miles south | B. C. Gilliam | John Dean | 1933 | **** | 18 | 6 | 3 |
| 839 | 35 miles southeast | Mrs. D. W. Curry | Ed Stevens | 1915 | Hilltop | 55 | 36 | 3 |
| 84,1 | do. | do. | D-10-10-10-10-10-10-10-10-10-10-10-10-10- | | do. | 50 | . 6 | 3 |
| 842 | $\frac{3\frac{1}{2}}{2}$ miles southeast | Mrs. Ada Washburn | Ed Stevens | 1920 | Hill- side | 35 | 36 | 3 |
| 8441 | 3 miles southeast | R. R. Long | Owner | 1930 | centle slope | 18 | 36 | 2 |
| 847 | 3½ miles east | Wood Goolsby | a-ri drage | defens | Draw | Spring | , , , , , | 0 |
| 849 | 45 miles eāst | N. S. Curry | *** | 191 ⁺ | Hill- | 17 | 48 | 3 |
| 850 | 5 miles east | do. | BLO PAGE | 1915 | | 38 | 48 | 3 |
| 851 | do. | do, | Tom Calloway | 1915 | Hilltop | 47 | 36 | 3 |
| 852 | 6 miles east | Tillie McDonald | | 1900 | do. | 29 | 6 | 1 |
| 853 | do. | Minnie McDonald | Calloway | 1915 | đo. | 48 | 48 | 2 |
| 854 | do. | do. | | 1 910 | do. | 24 | 6 | 2 |
| 858 | 7 miles east | Smith Johnson | Cwner | 1935 | Gentle slope | 37 | 6 | 3 |

H. L. Chenault, Project Superintendent. Water Level No. Depth Date of Pump Remarks Use below measure and of ment power water ing point c/ b/ (feet) 813 Bored well. Wood curb; wood casing, top to bottom. 26.5 Jan. 31, B,H D, S 1936 Strong supply. Reported slightly hard water. 814 11.1 May 29. Brick curb; brick casing, top to bottom. В.Н Reported hard water. 1936 supply. 815 Galvanized curb; 6 inch galvanized cas-12.8 Jan. 31. D,S Bored well. В,Н ing, top to bottom. Reported hard water. 1936 817 Bored well. Wood curb; wood casing, top to bottom. 10.2 Mar. 13, B, H 1936 820 10.4 do. D, S В,Н Do. Bored well. Wood casing, top to bottom. Strong sup-821 16.9 do. в.н D.S Reported soft water. Wood curb; 25 feet galvanized casing at top. 824 18.8 May 15. C, W supply. Water reported from quicksand. 1936 827 8.4, wood curb; wood casing, top to bottom. B, H do. D, S Reported soft water. Brick curb; plastered casing, top to bottom. 828 9.8 do. В.Н Strong supply. Reported soft water. 829 14.4 Wood curb; brick casing, top to bottom. Never fails. do. Reported hard, salty water. 830 Wood curb; wood casing, top to bottom. Strong supply. 15.5 d.o. B.H Reported hard water. Bored well. Mood curb; wood casing, top to bottom. 833 41.4 do. в.н Strong supply. Reported hard water. Brick curb; brick casing, top to bottom. Never fails. 835 12.4 do. В,Н Reported soft water. 836 Brick curb; brick casing, top to bottom. 15.2 do. B.H originally cistern till flooded by stream. Never fails Bored well. Wood curb; wood casing, top to bottom. 837 В.Н 11.5 Feb. 10. D, S 1936 Reported sulphur taste. Brick curb; 15 feet brick casing at top. Strong sup-839 36.3 May 15. C.W D.S : 1936 ply. Reported soft water. 841 Bored well. Wood curb; wood casing, top to bottom. 40.7. do. В,Н D.S Strong supply. Reported soft mater. 8112 Brick curb; brick casing, top to bottom. Strong sup-31.2 do. C.W D.S ply. Reported soft water. E444 Brick curb; brick casing, top to bottom. Never fails. 16.9 do. В.Н Reported soft water. 847 4.0 Feb. 5. None No curb; barrel casing. Reported limited capacity 1936 in present condition. 849 17.7 Mar. 13. Brick curb; brick casing, top to bottom. B, H D,S 1936 850 Brick curb; brick casing, top to bottom. Reported 20.0 B,H D.S hard water. 851 39.5 Mar. 12. B,H Brick curb; brickcasing, top to bottom. D.S 1936 852 23.6 В.Н Bored well. Wood curb; wood casing, top to bottom. do. Reported fairly soft water. Brick curb; brick casing, top to bottom. Strong sup-853 30.4 do. В,Н Reported soft water. 854 21.0 do. B, H D, S | Bored well. Tood curb; wood casing, top to bottom. Reported soft water. 858 Bored well. Wood curb; wood casing, top to bottom. 25.1 Har. 24. B.H 1936 Reported hard water.

-27Records of wells and springs in Freestone County--Continued.

| No. | Distance from Teague | Owner | Driller | com- ple- | Topo- graphic situa- tion | of well | of well | Height of measuring point above ground(ft.)a/ |
|--------|-------------------------------|-----------------------|--|-----------------------------|------------------------------------|------------|------------|--|
| 859 | 7 miles east | Oscar Johnson | Charles Communication Communic | 1920 | Gentle slope | 60 | 6 | : 2 |
| 860 | 7 miles southeast | Bill Moore | Strap want | | do. | 35 | 36 | 3 |
| 861 | 7½ miles southeast | Bob Moore | Jerry Philpott | 1930 | do. | 38 | | <u>, 1</u> |
| 863 | 4 miles southeast | Ben Biggs | 244 | - | Hill- side | 25 | 6 | 2 |
| 865 | 4½ miles southeast | B. L. Seely | pril 846) | 1915 | Hillton | 59 | 6 | 3 |
| d/865a | 42 miles southeast | R. A. Tacker | Emerald Oil Co | | | 3,068 | 13 | <u> </u> |
| 866 | 5 miles south | W. M. Partin | | 1925 | Hilltop | 16 | 18 | 3 |
| 867 | 5½ miles south | do. | e-q | | Hill- side | 31 | . 48 : | 3 |
| No. | Distance from Freestone | Owner | Driller | Date com- ple- ted | Topo- graphic situa- tion | | eter of | Height of measuring point a-bove ground(ft.)a/ |
| 872 | $rac{1}{2}$ miles west | J. A. Allison | | | Gentle slope | 33 | 60 | 3 |
| 873 | $rac{1}{4}$ miles west | J.B. Sandifer | Ed. Stevens | 1925 | | 28 | 48 | 2 |
| 874. | do. | W. T. Beene | do• | 1925 | do. | 35 | | |
| 875 | l mile west | Mrs. Bert Wren | do. | 1 925 | do | 22 | 48 | 3 |
| 877 | ½ mile northeast | John Epps | e-a e-a | 1925 | Creek bottoms | 28 | | |
| 878 | 2 miles northeast | A. W. Thompson | p= up | | Hill- ; | 18 | | |
| 879 | do. | W. J. Shelly | Jim Lambert | 1929 | do. | 32 | | - |
| 881 | do. | H. P. Norman | <u></u> | 1915 | ! | 16 | | |
| 882 | ₫o. | Bowen | | | Hilltop | | · | |
| 884 | 3章 miles northeast | Henry Daniels | | | Gentle slope | 40 | | - |
| 885 | 부 miles east | F. Peterson | Oscar Johnson | | Hill- side | 7. | 1 | |
| 887 | 5 miles east | Alice Jerden | Cotters Baty | | Hilltop | | - | 1 |
| 888 | 6 miles east | Gilliam Poindexter | Ben Black | 1933 | do. | 71 | | |
| 893 | l <u>ä</u> miles east | L. E. Baty | Owner | 1933 | Gentle slope | 16 | 36 | 2.5 |
| 894 | do. | d o. | Mike Beasley | 1929 | do. | 45 | 6 | 1 |

H. L. Chenault, Project Superintendent.

| | | | H. | L. Che | enault, Project Superintendent. |
|-----------------|---------------------------------------|-------------|--------------|--------------|---|
| | | r Level | | | Para sule n |
| No. | | Date of | | | Remarks |
| , | | measure- | | of | |
| | measu | | | water | |
| | ing po | | ₁ <u>b</u> / | , <u>c</u> / | |
| | (feet | <u> </u> | 1 | | |
| 859 | 40.5 | Mar. 24, | B,H | D.S | Bored well. Wood casing, top to bottom. Reported |
| | | ,1936 | | | hard water. Never fails. |
| 860 | 30.3 | do. | B.H | D, S | Wood curb; 20 feet brick casing at top. Reported |
| | _ | | | i } | hard water. |
| 861 | 34.2 | do. | В,Н | D.S | Pored well. Wood curb and casing, top to bottom. |
| | • | | 1 | | Reported hard water. |
| 863 | 12.4 | Mar. 11, | в,н | D.S | Bored well. Wood curb and casing, top to bottom. |
| | | 1936 | 1 | | Strong supply. Reported soft water. |
| 865 | 39.7 | | в, н | D.S | Bored well. Wood curb and casing, top to bottom. |
| | 2201 | | 1 | | Strong supply. Reported hard water. |
| 865a | | | None | N | Drilled well. Cil test. See log. |
|) - | | | 1,5220 | ±1 | <u></u> |
| 866 | 17-6 | May 15. | 3,H | D,S | Brick curb; brick casing, top to bottom. Reported |
| | -100 | 1936 | , عدور ا | J. 9. U | originally cistern until flooded by stream. Weak sup- |
| 867 | 28.8 | | В.Н | D.S | Brick curb; 10 feet brick casing at top. ply. |
| 001 | 2040 | , ao. | D) 17 | ن ورد | Strong supply. Reported soft water. |
| | | | | | '2010HS gabbi'. Vebot ser 2011 mesers |
| 1 | | r Level | | | 1 |
| No. | | Date of | | Use | Remarks |
| | | measure- | | of | 1 1 |
| | measu | | power | water | · · |
| | ing p | cint | b/ | c/ | |
| | (feet |) | | *** | |
| 872 | 28.6 | Feb. 24, | В,Н | *** | Brick curb; 10 feet brick casing at top. Never fails. |
| -1- | 20,0 | 1936 | ور | | Reported water from soapstone. |
| 873 | 25.3 | May 15. | B,H | D.S | Brick curb; brick casing, top to bottom. Strong sup- |
| | ~ J• J | 1936 | 20514 | | ply. Reported soft water. |
| 874 | 30.8 | | C.W | D, S | Do. |
| 0,, | ٥٠٠٥ | a.o. | 0 9 11 | Πέρ | ¦ |
| ⁸ 75 | 16.2 | do. | B,H | D.S | Do. |
| 91) | | 4.0 | D,11 | D, 13 | |
| 877 | 0 11 | Mar. II. | C.H | D.S | Bored well. Wood curb; wood casing, top to bottom. |
| 0111 | ノ・マ | 1936 | O: II | Dio | Strong supply. Reported hard water. |
| 878 | 12.2 | | в, Н | 70 .0 | Bored well. Wood curb; wood casing, top to bottom. |
| 010 | 1€ • € | do. | D . 11 | D.S | Reported hard water. |
| 879 | 27.0 | | | - B 6 | |
| 017 | 27.9 | do. | В,Н | D, S | Do. |
| 881 | 7.7. | | ~ | T ~ | Brick curb; brick casing, top to bottom. Reported |
| OOT | 10.6 | do. | C,H | | |
| 000 | | 3-2- | | | hard water. |
| 882 | 33.0 | do. | В,Н | D,S | Bored well. Wood curb; wood casing, top to bottom. |
| - | | | | | Reported soft water. |
| 884 | 32.6 | Mar. 24. | В.Н | D.S | Bored well. Wood curb; wood casing, top to bottom, |
| ا | · · · · · · · · · · · · · · · · · · · | 1936 | | | Reported hard water. |
| 885 | 3 . 1 | Mar. 25. | В, Н | D,S | Wood curb; rock casing, top to bottom. Strong supply. |
| | | 1936 | | | Nearly faills in summer. Reported soft water. |
| 887 | 9.4 | Mar. 24. | В.Н | D,S | Rock curb and casing, top to bottom. Never fails. |
| | | 1936 | | | Reported soft water. |
| 888 | 62.9 | Mar. 25. | B.H | D,S | Bored well. Wood curb; wood casing. Reported hard |
| _ | | 1936 | | | water. |
| 893 | 14.7 | | В.Н | D | Brick curb; brick casing, top to bottom. Never fails |
| | | 1936 | | | Reported soft water. |
| 894 | 28.7 | do. | В.Н | D.S | Bored well. Wood curb and casing, top to bottom. |
| - | | 1 | | | Strong supply. Reported hard water. |
| | | | | | ~ O |

| | Recon | rds of wells and | springs in Fr | eestone | county- | -Conti | nued. | |
|-------------|-------------------------------|------------------|---------------------|---------|------------------------------------|--------|--------------------|---|
| No. | Distance from Freestone | Owner | Driller | co m- | Topo- graphic situa- tion | | eter of well | Height of measuring point a-bove gro-und(ft.)a/ |
| 897 | la miles southwest | D. F. Farrell | 100 to 1 | 1932 | Gentle slope | 16 | 36 | 3 |
| 898 | 2 miles southwest | Doyle Newsome | Owner | 1916 | do. | 33 | 36 | 2 |
| 901 | 3호 miles south | Alvis Harris | gy.com | 4.00-1 | Hill- side | 22 | 60 | 3 |

a/ Measuring point was susually top of casing, top of pump base, or top of well curb.

b/ T, turbine; A, air-lift; C, cylinder; B, bucket; E, electric; G, gasoline engine;

W, windmill; H, hand; number indicates horsepower.

H. L. Chenault, Project Superintendent.

| No. | ing point | el of Pump | Use of | Remarks . |
|-----|-----------------------------|---------------|-----------|---|
| 897 | (feet) 11.8 Feb. 1936 | -: - | D,S | Brick curb and casing. |
| 898 | 23 do | | D.S | Brick curb and casing, top to bottom. Water reported from sand rock. Strong supply. |
| 901 | 21.6 do | • B,H | D.S | Brick curb and casing, top to bottom. Strong supply. Reported soft water. |

c/ I, irrigation; Ind, industrial; P, public; D, domestic; S, stock; N, not used. d/ No water sample collected for analysis. e/ Water level reported.

| | ckness feet) | Depth (feet) | | hickness (feet) | Depth (feet) |
|---------------------------------------|-----------------|--------------------------|-------------------------------------|--------------------|----------------------|
| | | 1-000/ | | | (=000) |
| Well 14a | | _ | Well 14aCon | | |
| John W. Hooser, Jos. Nussb | | ; al. | Ring shale | 2 | 3000 |
| lease. 5 miles east of Wo Surface | | 9.77 | Sticky shale | 12 | 3012 |
| Water sand | 27 11 | 27 | Shale | 4 | 3016 |
| Shale | 7 | 38 45 | Shale and shell Shale | <u>4</u> 8 | 3020 |
| Hard shale | 95 | 140 | 1 1 | 12 | 3040 |
| Shale | 180 | 320 | Sticky shale Shale and lime shells | 65 | 3105 |
| Hard shale and boulders | 370 | 690 | Sandy shale | 45 | 3150 |
| Shale and boulders | 256 | 946 | Sticky shale | 5 9 | 3209 |
| Sticky shale | 62 | 1008 | Sandy shale | 4 | 3213 |
| Gumbo | 4 | 1012 | Shale | 67 | 3280 |
| Black sand | 9 | 1021 | Shale and lime shell | 5 | 3285 |
| Sticky shale | 34 | 1055 | Sticky shale | 4 | 3289 |
| Gumbo | 20 | 1075 | Hard sand and lime shell | 3 | 3292 |
| Sticky shale | 71 | 1246 | Sand | 6 | 3298 |
| Hard lime shale | 26 | 1272 | Sand, shale, streaks of lim | _ | 3322 |
| Gummy shale | 112 | 1384 | Water sand | 7 | 3329 |
| Sticky shale | 21 | 1405 | TOTAL DEPTH | | 3329 |
| Gumbo | 9 | 1414 | | | |
| Sticky shale | 273 | 1687 | Well 67a | | |
| Broken sand | 29 | 1716 | J. S. Cosden Co., J. E. W | oods leas | e , 5 |
| Shale and boulders | 72 | 1788 | miles south of Kirvin. | | • |
| Sticky shale | 6 | 1794 | Surface sand | 3 | 3 |
| Dry sand | 8 | 1802 | Surface sand and clay | 92 | 95 |
| Shale and boulders | 194 | 1996 | Sand | 3 | 98 |
| Sticky shale | 22 | 2018 | Shale | 176 | 274 |
| Shale and boulders | 86 | 2104 | Shale and sand | 153 | 427 |
| Sticky shale | 162 | 2266 | Sticky shale | 60 | 487 |
| Hard sandy shale | 14 | 2280 | Gumbo | 30 | 517 |
| Sticky shale | 90 | 2370 | Hard shale | 18 | 535 |
| Hard shale and shell | 1 | 2371 | Lime rock | 1 | 536 |
| Dry sand | 4 | 2375 | Sticky shale | 14 | 550 |
| Broken sand and shale | 22 | 2397 | Gumbo | 30 | 580 |
| Hard shale | 22 | 2419 | Sticky shale | 60 | 640 |
| Dry sand | 8 | 2427 | Gumbo | 42 | 682 |
| Marl | 29 | 2456 | Gumbo and boulders | 45 | 727 |
| Sandy shale | 54 | 2510 | Hard shale and boulders | 85 | 812 |
| Lime rock | 11 | 2521 | Gumbo and boulders | 20 | 832 |
| Marl | 21 | 2542 | Sticky shale | 57 | 889 |
| Shale | 47 | 2589 | Hard shale and boulders | 91 | 980 |
| Chalk and hard brown lime | 14 | 2603 | Shale | 35 | 1015 |
| Broken lime and shale, | • • | 0.007 | Gumbo and boulders | 72 | 1087 |
| showing some chalk | 18 | 2621 | Hard shale and boulders | 38 | 1125 |
| Hard chalk | 12 | 2633 | Gumbo | 30 | 1155 |
| Broken chalk Hard chalk | 12 | 2645 | Shale and boulders | 90 | 1245 |
| Chalk | 40 | 2685 | Shale and lime | 55 | 1300 |
| Broken chalk | 15 21 | 2700 2721 | Shale and boulders | 40 | 1340 |
| Chalk | 16 | 2737 | Sticky shale | 70 85 | 1410 |
| Hard shale and lime shell | 43 | 2780 | Sticky shale and shells Shale | 5 | 149 <i>5</i> 1500 |
| Soft chalk | 46 | 2826 | Gumbo | 15 | |
| Shale and lime shells | 56 | 2882 | Hard shale | 29 | 151 <i>5</i> 1544 |
| Shale and lime shells | 40 | 2922 | | † | |
| Shale, pyrites, and boulders | 40 | 2922 | Sand rock | 1 | 1545 1546 |
| Shale, pyrices, and coulders Shale | 42 34 | 299 4 2998 | Sandy lime and pyrite Hard shale | 13 | 1546 1559 |
| VIIIUE U | ⊍≖ | ₩ 330 | mara puata | TO : | 1009 |

| | ickness (feet) | Depth (feet) | Th | ickness (feet) | Depth (feet) |
|----------------------------|-------------------|-----------------|---------------------------|-------------------|-----------------|
| Well 67aContinu | ed | | Well 203aCon | ti nued | |
| Lime and pyrite | _ 3 | 1562 | Chalk | 24 | 3024 |
| Gumbo | 8 ' | 1570 | Shale | 12 | 3036 |
| Hard sandy shale | 11 | 1581 | Sand, ash, and iron | 22 | 3058 |
| Sandy shale | 10 | 1591 | Hard sand and shells | 2 | 3060 |
| Sticky shale | 30 ' | 1621 | Shale and shells | 70 | 3130 |
| Sandy shale | 45 | 1666 , | Shale P. C. | 6 | 3136 |
| Gumbo | 14 ' | 1680 | Hard clay and iron stone | 1 | 3137 |
| Shale | 48 | 1728 | Hard shale | 11 | 3148 |
| Gumbo | 42 | 1770 | Shale streaks | 18 | 3166 |
| Hard shale | 30 | 1800 | Soft shale | 18 | 3184 |
| Hard sandy shale and lime | 6 | 1806 | Shale with sand streaks, | | |
| Gumbo | 2 | 1808 ; | gray and flakey | 18 | 3202 |
| Tough gumbo | 42 | 1850 | TOTAL DEPTH | | 3503 |
| Hard shale | 45 | 1895 | | | |
| Gumbo | 26 | 1921 | Well 210a | | |
| Shale | 44 | 1965 | Neversuch Oil Co., Oliver | Burleso | n lease. |
| Sticky shale | 20 | 1985 | 42 miles southeast of Str | | |
| Sticky shale and gumbo | 65 | 2050 | Sandy shale | 25 | 25 |
| Tough gumbo | 35 | 2085 | Shale | 15 | 40 |
| Gumbo | 10 | 2095 | Sticky shale | 6 | 46 |
| Hard shale | 10 | 2105 | Shale and sand | 34 | 80 |
| Gumbo | 35 | 2140 | 'Sandy lime shell | 3 | 83 |
| Hard shale | 20 | 2160 | Sandy shale | 40 | 1113 |
| Gumbo | 17 | 2177 | Sandy lime shell | 5 | 118 |
| Sticky shale | 48 | 2225 | Shale | 262 | 380 |
| Lime rock | 2 | 2227 | Shale and shell | 289 | 669 |
| Hard shale and boulders | 13 | 2240 | Shell | 1 | 670 |
| Sticky shale | 60 | 2300 | Shale with shell streaks | <u>.</u> ; | 070 |
| Shale | 41 | 2341 | and boulders | 277 | 947 |
| Sticky shale | 89 | 2430 | Lime shell | 2 | 949 |
| Lime rock | 3 | 2433 | Shale | 78 | 1027 |
| Hard sand | 46 | 2479 | Cored | 70 | 1027 |
| Hard sandy shale | 51 | 2530 | Sticky shale | 156 | 1183 |
| Gumbo and gypsum | 30 | 2560 | Shale and shells | 60 | 1243 |
| TOTAL DEPTH | 90 | 4226 | | 14 | 1257 |
| TOTAL DISTIN | | 4660 | Sandy shale | 380 | |
| Well 203a | | ; | Sticky shale | | 1637 |
| Bert Fields Co., E. E. Lar | h looge | <u> </u> | Broken formation | 4 , | 1641 |
| miles south of Streetman. | io rease | . 27 | TOTAL DEPTH | | 3733 |
| Sand and shale | 102 | 102 | Well 282a | | |
| Gumbo and shale | 475 | 577 | Peyton Bros., Ernest Beau | chamn la | ରବଳ |
| Gummy shale | 463 | 1040 | 3½ miles north of Fairfie | | ase. |
| Gray sand | 15 | 1055 | Hard clay streaks | 10 | 10 |
| Shale | 74 | 1129 | Sand | 20 | 30 |
| Sandy shale and hard shale | | 1580 | ' Sandy shale | 27 | 50 57 |
| Sandy shale | 194 | 1774 | Sand and boulders | 18 | 75 |
| Broken chalk | 90 | 1964 | Lignite | 4 | 79 |
| Red bed | 18 | 1964 | Sandy shale | 29 | 108 |
| Sticky shale | 230 | 2212 | Shale | 4 | 112 |
| • | | 2530 | | 1 · | |
| Sandy shale | 318 | | Rock | 17 | 113 |
| Gumbo Racken chells | 20 | 2550 | Shale | | 130 |
| Broken chalk | 32 | 2582 | Sand | 26 | 156 |
| Austin chalk | 40 ; | 2622 | Shale | 34 | 190 |
| Chalk | 74 704 | 2696 | Hard sand | 5 | 195 |
| Austin chalk | 304 | 3000 | (Continued on next) | page) | |

| | Thickness (feet) | Depth | Thickness (feet) | |
|------------------------|------------------|-------------|--|---------|
| | (reet) | (feet) | (Teet) | (feet) |
| Well, 282a | | | Well 312Continued | ! |
| Shale and sand streaks | 53 | 248 | Sandy shale | 179 |
| Sandy shale | 42 | 290 | Hard shale 49 | 228 |
| Rock | 5 | 295 | Sandy shale 12 | 240 |
| Sand | 40 | 3 35 | Hard shale 27 | 267 |
| Rock | 4 | 339 | Sandy shale 41 | 308 |
| Shale and boulders | 261 | 600 | Herd shale 12 | 320 |
| Shale | 50 | 650 | Hard shale and sand streaks 11 | 331 |
| Rock | 2 | 652 | Rock 2 | 333 |
| Shale boulders | 198 | 850 | Hard shale 8 | 341 |
| Rock | 2 | 852 | Hard shale and sand streaks 24 | 365 |
| Shale | 156 | 1008 | Sandy shale 10 | 375 |
| Shale and shells | 192 | 1200 | Sand 24 | 399 |
| Hard shale and boulder | s 135 | 1335 | Hard rock 1 | 400 |
| Hard shale | 25 | 1360 | Sand and shale 5 | 405 |
| Hard sandy shale | 140 | 1500 | Shale 4 | 409 |
| Shale | 100 | 1600 | Sandy shale 17 | 426 |
| Hard shale and shells | 71 | 1671 | Sand 10 | 436 |
| Shale | 69 | 2140 | ' Hard shale 9 | 445 |
| Hard shale and shells | 469 | 2213 | Sandy shale 52 | 497 |
| Shale | 199 | 2412 | Shale 66 | 563 |
| Chalk | 25 | 2437 | Sandy shale 33 | 596 |
| Hard chalk | 37 | 2474 | ; Shale 16 | 602 |
| Pecan gap chalk | 71 | 2505 | TOTAL DEPTH | 602 |
| Pecan chalk | 81 | 2586 | CASING RECORD: 366 feet of $12\frac{1}{2}$ | |
| Shale | 9 | 2694 | casing. 251 feet of 6-inch casi | |
| Shale and chalk rock | 82 | 2776 | 60 feet into bottom of $12\frac{1}{2}$ -inch | |
| Shale | 19 | 2794 | Screen set: 366-389, 406-427 and | |
| Shale and chalk rock | 40 | 2824 | feet. 24 feet of 6-inch set nip | - • |
| Hard shale and broken | chalk212 | 3036 | pressure valve, and plug on bott | om of 6 |
| Sand | 7 | 3043 | inch. | |
| Shale and lime shells | 168 | 3211 | | |
| Shale and shells | 125 | 3336 | Well 417 | |
| Broken lime | 17 | 3353 | E. G. Rector Survey, NW corner J | . S. |
| Sandy shale | 9 | 3362 | Cullinan lease, $7\frac{1}{4}$ miles northea | st of |
| Austin chalk | 43 | 3405 | Young. | |
| TOTAL DEPTH | · | 4403 | Surface clay 232 | 232 |
| | | | Sand and shell 86 | 318 |
| Well 31 | | | Sandy lime 5 | 323 |
| Layne-Texas Co., City | | ld Well | Sand 47 | 370 |
| No. 1. In city of Fai | _ | _ | TOTAL DEPTH | 370 |
| Surface soil | 1 | 1 | | |
| Clay | 12 | 13 | <u>Well 417a</u> | |
| Clay and sand breaks | 18 | 31 | Amerada Petroleum Corp., Hettie | Berk |
| Clay | 15 | 46 | lease. $7\frac{3}{4}$ miles northeast of Yo | |
| Sand and clay | 23 | 69 | Surface clay 33 | 33 |
| Shale and streaks of s | 1 | 96 | Shale and sand 391 | 424 |
| Shale | 6 | 102 | Sand and shale 96 | 520 |
| Lignite and shale | 5 | 107 | Broken sand 20 | 540 |
| Shale | 30 | 137 | Sand rock 2 | 542 |
| Hard shale | 6 | 143 | Shale 33 | 575 |
| Sandy shale | 6 | 149 | Sand rock 2 | 5/7 |
| Rock | 1 | 150 | Shale 92 | 669 |
| Hard shale | 9 | 159 | Shale and streaks of sand 41 | 710 |
| Se.nd | 7 | 166 | (Continued on next page) | |
| | | | , 1 | |

| | hickness (feet) | Depth (feet) | | Thickness (feet) | Depth (feet) |
|---|--|--|--|--|--|
| Well 417aCo | | | 187_1 7 55 22 0 | | (2000) |
| Shale and shells | 185 | 895 | Well 553aC | 28 | 1734 |
| Shale and boulders | 20 | 915 | Hard sand | 66 | 1800 |
| Shale | 4 | 929 | Sandy shale and shells | 100 | 1900 |
| Sand and shale | 21 | 950 | Shale and lime | 75 | 1975 |
| Sticky shale and shells | 125 | 1075 | Shale and shells | 100 | 2075 |
| Sand, shells, and shale | 90 | 1165 | Shale | 115 | 2190 |
| Rotten shale | 68 | 1233 | Sandy shale | 45 | 2235 |
| Shale and shells | 241 | 1474 | Hard white sand | | 2245 |
| Shale | 226 | 1600 | Shale | 5 | 2250 |
| Sticky shale | 75 | 1675 | Shale and shells | 50 | 2300 |
| Shale | 27 | 1702 | Sand and shale | 205 | 2505 |
| Sendy shale | 28 | 1730 | Shale | 260 | 2765 |
| Hard sand | 4 | 1734 | Shale and lime | 100 | 2865 |
| Sandy shale | 20 | 1754 | Shale | 628 | 3493 |
| Shale and shells | 96 | 1850 | Pecan gap chalk | 147 | 3640 |
| Shale | 125 | 1975 | TOTAL DEPTH | <u>.</u> ; | 5590 |
| Sticky shale | 125 | 2100 | TOTAL DELLA | | 0000 |
| Black shale | 50 | 2150 | Well 600 | 18 | |
| Sticky shale and streaks | i i | 1 | J. L. Collins Co., Wm. | | Ir. |
| of chalk | 35 | 2185 | lease, 6 miles northwes | | , ± • |
| Chalk and streaks of sha | * | 2358 | Sand and clay | 50 | 50 |
| Chalk and shale | 147 | 2405 | Sandy shale | 70 | 120 |
| Shale | 125 | 2530 | Shale and shell | 150 | 270 |
| TOTAL DEPTH | 120 | 4025 | 'Water sand | 45 | 315 |
| CASING RECORD: 642 feet | of $10\frac{3}{4}$ | | Sandy shale | 161 | 476 |
| casing. 4018 feet of 7- | | | Sand rock | 3 | 479 |
| 4022 feet of 21-inch tub | | | Shale | 21 | 490 |
| | | , | Shale and boulders | 5 | 795 |
| Well 553a | L | _ | Shale and shell | 325 | 1120 |
| Humble Oil and Refining | | R. Dietz | Hard sandy shale | 160 | 1280 |
| lease. $7\frac{1}{2}$ miles east of | | | Shale and shell | 258 | 1538 |
| ~ | | 22 | 1 | 335 | 1873 |
| Clay | 22 | | , - · · · · | | |
| Clay Soft sand | 22 13 | | Broken sand and shale | 65 | |
| Soft sand | 13 2 | 35 | Broken sand and shale Shale and shell | 65 98 | 1938 |
| Soft sand Hard white she lls | 13 2 | 35 37 | Shale and shell | 98 | 1938 2036 |
| Soft sand Hard white shells Soft sand | 13 2 38 ! | 35 37 75 | Shale and shell Sticky shale | 98 46 | 1938 2036 2082 |
| Soft sand Hard white shells Soft sand Hard sand | 13 2 | 35 37 75 228 | Shale and shell Sticky shale Shale | 98 46 762 | 1938 2036 2082 2744 |
| Soft sand Hard white shells Soft sand Hard sand Sand | 13 2 38 153 77 | 35 37 75 228 305 | Shale and shell Sticky shale Shale Pecan chalk | 98 46 | 1938 2036 2082 2744 2760 |
| Soft sand Hard white shells Soft sand Hard sand Sand Shale | 13 2 38 153 | 35 37 75 228 | Shale and shell Sticky shale Shale | 98 46 762 | 1938 2036 2082 2744 |
| Soft sand Hard white shells Soft sand Hard sand Sand Shale Sand | 13 2 38 153 77 35 | 35 37 75 228 305 340 428 | Shale and shell Sticky shale Shale Pecan chalk TOTAL DEPTH | 98 46 762 16 | 1938 2036 2082 2744 2760 |
| Soft sand Hard white shells Soft sand Hard sand Sand Shale Sand Shale | 13 2 38 153 77 35 88 | 35 37 75 228 305 340 | Shale and shell Sticky shale Shale Pecan chalk TOTAL DEPTH Well 644 | 98 46 762 16 | 1938 2036 2082 2744 2760 4507 |
| Soft sand Hard white shells Soft sand Hard sand Sand Shale Sand Shale Brown sand | 13 2 38 153 77 35 88 15 | 35 37 75 228 305 340 428 443 784 | Shale and shell Sticky shale Shale Pecan chalk TOTAL DEPTH Well 644 Sun Oil Company, Minyar | 98 46 762 16 16 | 1938 2036 2082 2744 2760 4507 |
| Soft sand Hard white shells Soft sand Hard sand Sand Shale Sand Shale Brown sand Black shale | 13 2 38 153 77 35 88 15 341 28 | 35 37 75 228 305 340 428 443 784 812 | Shale and shell Sticky shale Shale Pecan chalk TOTAL DEPTH Well 644 Sun Oil Company, Minyar 2 miles northeast of I | 98 46 762 16 a White le | 1938 2036 2082 2744 2760 4507 |
| Soft sand Hard white shells Soft sand Hard sand Sand Shale Sand Shale Brown sand Black shale Sand | 13 2 38 ! 153 ! 77 . 35 ! 88 . 15 ! | 35 37 75 228 305 340 428 443 784 812 912 | Shale and shell Sticky shale Shale Pecan chalk TOTAL DEPTH Well 644 Sun Oil Company, Minyar 2\frac{1}{4} miles northeast of I Surface | 98 46 762 16 a White le | 1938 2036 2082 2744 2760 4507 |
| Soft sand Hard white shells Soft sand Hard sand Sand Shale Sand Shale Brown sand Black shale Sand Shale | 13 2 38 153 77 35 88 15 341 28 | 35 37 75 228 305 340 428 443 784 812 912 | Shale and shell Sticky shale Shale Pecan chalk TOTAL DEPTH Well 644 Sun Oil Company, Minyar 2 miles northeast of I Surface Clay and shale | 98 46 762 16 a White le | 1938 2036 2082 2744 2760 4507 |
| Soft sand Hard white shells Soft sand Hard sand Sand Shale Sand Shale Brown sand Black shale Sand Shale | 13 2 38 153 77 35 88 15 341 28 100 112 91 | 35 37 75 228 305 340 428 443 784 812 912 1024 1115 | Shale and shell Sticky shale Shale Pecan chalk TOTAL DEPTH Well 644 Sun Oil Company, Minyar 2½ miles northeast of I Surface Clay and shale Shale | 98 46 762 16 16 12 0ew. | 1938 2036 2082 2744 2760 4507 |
| Soft sand Hard white shells Soft sand Hard sand Sand Shale Sand Shale Brown sand Black shale Sand Shale and shells Sand | 13 2 38 153 77 35 88 15 341 28 100 112 91 | 35 37 75 228 305 340 428 443 784 812 912 1024 1115 1290 | Shale and shell Sticky shale Shale Pecan chalk TOTAL DEPTH Well 644 Sun Oil Company, Minyar 2½ miles northeast of I Surface Clay and shale Shale Sandy shale | 98 46 762 16 16 Mhite le lew. 12 55 5 44 | 1938 2036 2082 2744 2760 4507 |
| Soft sand Hard white shells Soft sand Hard sand Sand Shale Sand Shale Brown sand Black shale Sand Shale and shells Sand | 13 2 38 153 77 35 88 15 341 28 100 112 91 175 | 35 37 75 228 305 340 428 443 784 812 912 1024 1115 1290 1300 | Shale and shell Sticky shale Shale Pecan chalk TOTAL DEPTH Well 644 Sun Oil Company, Minyar 2½ miles northeast of I Surface Clay and shale Shale Sandy shale Sandy shale and lignite | 98 46 762 16 A White le Dew. 12 55 5 44 12 | 1938 2036 2082 2744 2760 4507 28se. 12 67 72 116 128 |
| Soft sand Hard white shells Soft sand Hard sand Sand Shale Sand Shale Brown sand Black shale Sand Shale and shells Sand | 13 2 38 153 77 35 88 15 341 28 100 112 91 175 110 | 35 37 75 228 305 340 428 443 784 812 912 1024 1115 1290 1300 1400 | Shale and shell Sticky shale Shale Pecan chalk TOTAL DEPTH Well 644 Sun Oil Company, Minyar 2\frac{1}{4} miles northeast of I Surface Clay and shale Shale Sandy shale Sandy shale and lignite Sand and shale | 98 46 762 16 a White le bew. 12 55 5 44 12 77 | 1938 2036 2082 2744 2760 4507 ************************************ |
| Soft sand Hard white shells Soft sand Hard sand Sand Shale Sand Shale Brown sand Black shale Sand Shale and shells Sand Hard sand Shale and shale | 13 2 38 153 77 35 88 15 341 28 100 112 91 175 110 100 | 35 37 75 228 305 340 428 443 784 812 912 1024 1115 1290 1300 1400 1500 | Shale and shell Sticky shale Shale Pecan chalk TOTAL DEPTH Well 644 Sun Oil Company, Minyar 2½ miles northeast of I Surface Clay and shale Shale Sandy shale Sandy shale and lignite Sand and shale Sandy shale Sandy shale | 98 46 762 16 a White le bew. 12 55 5 44 12 77 75 | 1938 2036 2082 2744 2760 4507 28se. 12 67 72 116 128 205 280 |
| Soft sand Hard white shells Soft sand Hard sand Sand Shale Sand Shale Brown sand Black shale Sand Shale and shells Sand Shale and shells Sand Hard sand Shale Shale and lime Sand Sand | 13 2 38 153 77 35 88 15 341 28 100 112 91 175 110 100 100 47 | 35 37 75 228 305 340 428 443 784 812 912 1024 1115 1290 1300 1400 1500 1547 | Shale and shell Sticky shale Shale Pecan chalk TOTAL DEPTH Well 644 Sun Oil Company, Minyan 2½ miles northeast of I Surface Clay and shale Shale Sandy shale Sandy shale and lignite Sandy shale Sandy shale Sandy shale Sandy shale Sandy shale | 98 46 762 16 a White le | 1938 2036 2082 2744 2760 4507 288 67 72 116 128 205 280 311 |
| Soft sand Hard white shells Soft sand Hard sand Sand Shale Sand Shale Brown sand Black shale Sand Shale and shells Sand Hard sand Shale and shells Sand Hard sand Shale and lime Sand Sand Shale and lime Sand | 13 2 38 153 77 35 88 15 341 28 100 112 91 175 110 100 100 47 5 | 35 37 75 228 305 340 428 443 784 812 912 1024 1115 1290 1300 1400 1500 1547 1552 | Shale and shell Sticky shale Shale Pecan chalk TOTAL DEPTH Well 644 Sun Oil Company, Minyar 2½ miles northeast of I Surface Clay and shale Shale Sandy shale Sandy shale and lignite Sandy shale | 98 46 762 16 a White le | 1938 2036 2082 2744 2760 4507 28se. 12 67 72 116 128 205 280 311 313 |
| Soft sand Hard white shells Soft sand Hard sand Sand Shale Sand Shale Brown sand Black shale Sand Shale and shells Sand Shale and shells Sand Hard sand Shale Shale Shale sand Hard sand Shale Shale sand Shale | 13 2 38 153 77 35 88 15 341 28 100 112 91 175 110 100 47 5 | 35 37 75 228 305 340 428 443 784 812 912 1024 1115 1290 1300 1400 1547 1552 1606 | Shale and shell Sticky shale Shale Pecan chalk TOTAL DEPTH Well 644 Sun Oil Company, Minyan 2½ miles northeast of I Surface Clay and shale Sandy shale And lignite Rock Shale and lignite | 98 46 762 16 16 12 55 5 44 12 77 75 31 2 19 | 1938 2036 2082 2744 2760 4507 4507 28se. 12 67 72 116 128 205 280 311 313 332 |
| | 13 2 38 153 77 35 88 15 341 28 100 112 91 175 110 100 100 47 5 | 35 37 75 228 305 340 428 443 784 812 912 1024 1115 1290 1300 1400 1500 1547 1552 | Shale and shell Sticky shale Shale Pecan chalk TOTAL DEPTH Well 644 Sun Oil Company, Minyar 2½ miles northeast of I Surface Clay and shale Shale Sandy shale Sandy shale and lignite Sandy shale | 98 46 762 16 a White le | 1938 2036 2082 2744 2760 4507 28se. 12 67 72 116 128 205 280 311 313 |

| | This alexane | Donth | ml-2-3 | ~~~ | Don +1 |
|------------------------|------------------|-----------------|--|---------------------------------------|-----------------|
| | Thickness (feet) | Depth (feet) | Thickn (fee | | Depth (feet) |
| | | (2000) | | · · · · · · · · · · · · · · · · · · · | (- 00 0) |
| Well 644a- | | | Well 699aContinu | | |
| Sticky shale | 51 | 445 | , | 1 | 544 |
| Sand and shale | 49 | 494 | | 0 | 574 |
| Sand | 166 | 660 | | 6 | 580 |
| Sandy shale | 90 | 750 | | 7 : | 587 |
| Lignite | 2 | 752 | · • | 3 | 670 |
| Sandy shale | 48 | 810 | | 1 | 671 |
| Rock | 2 | 812 | | 3 | 674 |
| Sandy shale Sand | 28 | 940 | 1 1 | 4 | 678 |
| Shale and boulders | 40 | 980 | | 2 | 680 |
| Rock | 120 | 1100 | Sand 6 | | 742 |
| Shale | 2 88 | 1102 | | .8 ' | 760 795 |
| Sand | 2 | 1190 1192 | i e | 5 | 795 944 |
| Shale and boulders | 48 | 1240 | | 2 | 944 946 |
| Sticky shale and lime | 20 | 1360 | | | 946 994 |
| Shale and lime shells | 105 | | . 1 | 9 . | |
| Shale and boulders | 220 | 1465 1685 | 1 } | 6 6 | 1054 1110 |
| Sticky shale | 20 | 1705 | 1 | 0 | 1110 |
| Shale and boulders | 20 | 1705 | | 4 | 1150 1154 |
| Shale | 4 | 1729 | . : | 1 | 1200 |
| Rock | 1 | 1730 | Took SLM at 1160 feet. | 1 | 1200 |
| Sticky shale and bould | + | 1830 | | 1 : | 1206 |
| Shale | 288 | 2118 | l 🕻 | 4 | 1300 |
| Hard shale | 16 | 2134 | Broken sand, shale, pyrites 13 | | 1430 |
| Shale | 5 | 2139 | | 3 1 | 1433 |
| Rock | 41 | 2180 | · • | 9 1 | 1532 |
| Shale | 25 | 2205 | i i | 5 ; | 1537 |
| Sticky shale | 20 | 2225 | | 0 ! | 1547 |
| Shale | 45 | 2270 | i i | 3 ; | 1580 |
| Sticky shale | 5 | 2275 | Sticky shale 2 | | 1609 |
| Shale and shells | 252 | 2527 | 1 . | 1 + | 1610 |
| Shale | 439 | 2966 | | ō | 1680 |
| Chalk | 47 | 3013 | } | 9 | 1709 |
| Shale and chalk | 192 | 3205 | .1 | 6 | 1715 |
| Shale | 60 | 3265 | | 1 : | 1716 |
| Hard shale and boulder | | 3428 | Shale 2 | 5 | 1741 |
| Shale | 169 | 3597 | Sandy shale 6 | 1 ; | 1802 |
| Shale and lime shells | 150 | 3747 | The second secon | 1 | 1803 |
| Shale | 170 ' | 3917 | Sandy shale 4 | 7 | 1850 |
| Chalk | 46 | 3963 | Sticky shale 2 | 5 | 1875 |
| TOTAL DEPTH | | 4762 | Hard sand 2 | 8 | 1903 |
| | | 1 | Hard sandy shale 8 | 6 | 1989 |
| Well 6: | | 1 | ' Hard sand | 6 | 1995 |
| Roxana Petroleum Corp. | , Franz Thi | .ele | Broken shale, sand, and lime 2 | 0 | 2015 |
| lease. 10 miles south | neast of Dew | r. | · | 5 | 2030 |
| Surface sand | 45 | 45 | • | 9 | 2079 |
| Send and lignite | 35 ; | | · · | 0 | 2139 |
| Hard and soft sand | 69 | 149 | | 6 | 2165 |
| Sand | 31 | 180 | • | 5 | 2180 |
| Shale | 20 | 200 | v | 4 | 2224 |
| Sand and shale, broken | 1 | 330 | | 1 ' | 2225 |
| Sticky shale and bould | 1 | 353 | Sticky shale and boulders 12 | | 2350 |
| Lime shell | 1 | 35 4 | Broken lime 2 | | 2370 |
| Shale | 35 | 389 | v | 7 | 2377 |
| Send rock | 4 | 493 | | 0 | 2 457 |
| | | | (Continued on next page) | | |

| | ckness feet) | Depth (feet) | ŗ | hickness (feet) | Depth (feet) |
|---|-----------------|----------------------|-----------------------------------|--------------------|--------------------|
| | | | Well 865aContinued | | |
| Well 699aContinued Sticky shale and boulders 74 253 | | | Vater sand | 2 | 78 |
| TOTAL DEPTH | / = | 25 31 3955 | Gravel and clay | 37 | 115 |
| TOTAL DEFITI | | 3300 | Gravel Gravel | 6 | 121 |
| Well 810a | | | Shale | 16 | : 137 |
| Layne-Texas Co., City of Teague Well | | ell No. | Sandy shale | 24 | 161 |
| 1. In city of Teague. | 006 0 0 | 011 110 | Gumbo and shale | 21 | 182 |
| Clay | 7 | 7 | | 9 | 191 |
| Sandy rock | 10 | 17 | Shale and boulders | 30 | 221 |
| Clay | 18 | 35 | Sandy shale | 45 | 266 |
| Sand | 72 | 107 | Gumbo | 5 | 271 |
| Blue clay | 3 | 110 | Shale | 51 | 322 |
| Sand | 9 | 119 | Gumbo | 12 | 334 |
| Lignite | 5 | 124 | Sand rock | 1 | 335 |
| Shale with hard layers | 27 | 151 | Shale and sand | 35 | 370 |
| Rock | 2 | 153 | Gumbo | 10 | 380 |
| Coal | 2 | 174 | Shale | 40 | 420 |
| Hard shale and layers of | - - | | Gumbo | 20 | 440 |
| sandy clay | 81 | 255 | Sand and shale | 20 | 460 |
| Fine blue sand | 21 | 276 | Sand rock | 2 | 462 |
| Shale | 20 | 296 | Shale and gumbo | 38 | 500 |
| Rock | 2 | 298 | Gumbo | 8 | 508 |
| Gumbo with hard layers | 21 | 319 | Packed sand | 52 | 560 |
| Rock | 3 | 322 | Shale | 20 | 580 |
| Gumbo | 20 | 342 | Shale and boulders | 10 | 590 |
| Clay and boulders | 23 | 365 | Hard sand and shale | 6 | 596 |
| Rock | 2 | 367 | Water sand | 17 | 613 |
| Gumbo | 16 | 383 | Sand rock | 2 | 615 |
| Rock | 4 | 387 | Shale and boulders | 60 | 675 |
| Hard shale | 31 | 418 | Shale | 15 | 690 |
| Clay and gravel | 8 | 426 | Gumbo | 5 | 695 |
| Gumbo | 27 | 453; | Sand and shale | 5 | 700 |
| Rock | 2 | 455 | Shale | 45 | 745 |
| Gumbo | 18 | 473 | Soft sand rock | 2 | 747 |
| Fine muddy sand | 16 | 489 | , Gumbo | 8 | 755 |
| Blue clay and sand | 16 | 505 | Shale | 2 | 757 |
| Hard sandy clay | 25 | i . | Gumbo | 4 | 761 |
| Rock | 2 | 532 | 1 | 15 | 776 |
| Gumbo with layers of sandy | | | Sand rock | 7 | 783 |
| clay | 76 | 608 | | 5 | 788 |
| Rock | 1 | 609 | Sandy slate | 20 | 808 |
| Shale and gumbo | 91 | 700 | Gumbo | 28 | 836 |
| Fine blue sand | 12 | 712 | Red sand | 1 | 837 |
| Shale | 20 | 732 | : Shale and boulders | 30 | 867 |
| Rock | 4 | 736 | Hard broken sand | 3 | 870 |
| Soft clay | 16 | 752 | Quicksand and gravel | 12 | 882 |
| Sandy clay | 5 | 757 | | 8 | 890 |
| Shale and gumbo | 195 | 952 | Sand and shale | 15 | 905 |
| TOTAL DEPTH | | 952 | Shale and sand | 6 | 911 |
| | | 1 | Gumbo | 12 | 923 |
| Emerald Oil Co., R. A. Tacker lease. | | se. | Sand, shale, and boulders Rock | s 27 1 | 950 95 1 |
| 5 miles southeast of Teagu | ie. | | Steel line measurement. | ; ; | |
| Surface sand | 1 | 1 | Gumbo | 3 | 954 |
| Clay | 68 | 69 | Send, shale, and boulders | | 986 |
| Sand | 7 | 76 | Gumbo | 15 | 1001 |
| | | 1 | TOTAL DEPTH | | 3068 |

Logs of test wells drilled by W. P. A. labor in Freestone County, Texas Samples examined and classified by H. L. Chenault,
Project Superintendent

| _ | kness eet) | Depth (feet) | Thickness (feet) | Depth (feet) |
|---|---------------|-----------------|--|-------------------------|
| 777 7 7 7 | | | | |
| Well 1 | | | Well 5 | 0.7 |
| Side of Highway 14, 100 yard | s souti | or. | Gentle slope, J. H. Bounds tract | , 2 2 |
| county line, south corner Os | | | miles south of Wortham. | , |
| acre tract, 2 miles north of | Worth | _ | Brown surface sand 1 | : 1 |
| Black sandy clay | 1 | 1 | Stiff brown clay | 2 |
| Gray sandy clay | 2 | 5 | Stiff yellow clay | 3 |
| Sticky gray and yellow clay | 4 | 7 | Packed yellow sand 2 | 5 |
| Sticky gray clay Rock | 4 ' | 13 | Packed brown, yellow sand 3 Yellow soapstone 2 | 8 |
| | A 20 | 13 | , | 10 |
| No water sample collected. M | ay 20, | 1936. | r r | 14 |
| Well 2 | | | | 15 |
| | hm D (| 742.2 | f ; | 18 |
| North side of Highway 14, Jo tract, $\frac{1}{4}$ mile north of Worth | IIII I'e i | วงนยยธ | , | ¹ 21 21 |
| Brown sandy clay | am. | 2 | Hard shale | - |
| Yellow sandy clay | 4 | د 6 | No water sample collected. May | , 1900. |
| Gray and yellow sandy clay | 12 | 18 | Well 6 | |
| Gray sandy scaps tone | 4 | 22 | Slope, J. M. Bounds tract, $2\frac{1}{4}$ mi | log |
| Blue scaps tone and shale | 8 | 30 | southeast of Wortham. | 109 |
| No water sample collected. M | , | , | Stiff gray sandy clay 3 | 1 3 |
| no waser Bampre Corrected, m | ay so, | 1000. | Gray and yellow sandy clay | 6 |
| Well 3 | | | Gray and yellow packed sand 2 | 8 |
| Side of draw, center west li | no N | ı, | Gray and yellow scapstone 8 | 16 |
| Lindley 13 acre tract, 12 mi | | | Gray soapstone 2 | 18 |
| Wortham. | Tes 200 | 1011 01 | Yellow soapstone and packed | 10 |
| Stiff orange colored clay | 1 | 1 | sand 1 | 19 |
| Stiff brown clay | î | 2 | Hard packed sand | 19 |
| Brown sandy clay | ī | 3 | No water sample collected. May | |
| Coarse yellow sand | ī | 4 | no no or bumpeo octato doda nety | , 2000 |
| Brown sand and clay | 2 | 6 | Well 7 | |
| Coarse yellow sand | 2 | 8 | Gentle slope, W. G. Ross tract, | $4^{\frac{1}{2}}$ miles |
| Yellow silty sand | 4 | 12 | south of Wortham. | ! |
| Brown silty sand | 1 | 13 | Brown silty sand 1 | 7 |
| Coarse yellow sand | 1 | 14 | Stiff brown clay 2 | 3 |
| Coarse brown sand | 2 6 | 16 | Tough gray and yellow clay 15 | 18 |
| Coarse yellow sand Coarse blue sand | 6 | 22 | Hard clay | 18 |
| Rock | 1 | 23 23 | No water sample collected. June | a, 1930. |
| Struck water at 19 feet. | | 40 | Well 8 | |
| Water sample collected. May | 20. 19 | 936. | Hillside, Felix Keys tract, 5 mi | les east |
| | 20, 2 | | of Wortham. | , |
| Well 4 | | | Stiff brown clay | 1 |
| Gentle slope, side of road n | ear J. | М. | Yellow sandy clay 2 | 3 |
| Bounds tract, 3/4 mile south | | | Yellow clay and packed sand 6 | 9 |
| Wortham. | 1 | - | Gray clay and sand 2 | 11 |
| Stiff yellow clay | 4 , | 4 | Yellow silty sand 3 | 14 |
| Yellow packed sand | 11 | 15 | Gray silty sand | 15 |
| Gray and yellow sand | 2 | 17 | Yellow clay and sand 1 | 16 |
| Yellow sand | 1 | 18 | Gray clay and packed sand 3 | 19 |
| Gray and yellow sand | 2 | 20 | Brown clay and sand 1 | 20 |
| Rock | 1 | 20 | Gray packed sand | 21 |
| Struck water at 18.5 feet. Water sample collected. May | 7 10 | 36 | Brown clay and sand 2 Rock | 23 23 |
| Bempro ourrecoeu. May | ان د و ، | 00. | No water sample collected. June | 1 20 |

| | Depth (feet) | Thickness Depth (feet) (feet) |
|--|-----------------|--|
| | 12000) | |
| Well 9 Creek bottoms, Jno. C. Kirren Esta | +- | Well 14Continued Stiff gray clay 2 5 |
| 3-3/4 miles south of Wortham. | 5e, | Stiff gray clay 2 5 Yellow gravelly clay 3 8 |
| Brown surface sand 2 | 2 | Yellow sticky clay 6 14 |
| Brown clay and sand | 3 | Stiff yellow clay 7 21 |
| Stiff black clay 3 | 6 | Blue shale 1 22 |
| Brown sandy clay 3 | 9 | Hard blue shale |
| Brown clay and sand 2 | 11 | |
| Brown sandy clay 4 | 15 | No water sample collected. May 22, 1936 |
| Stiff brown and gray clay 4 | 19 | Well 15 |
| Gray and yellow sandy clay 2 | 21 | Gentle slope, J. P. Jackson tract, near |
| Rock | 21 | Streetman road, a mile south of county |
| Struck water at 10 feet. | 27 | line, 52 miles northeast of Wortham. |
| Water sample collected. May 7, 19 | 36. | Brown surface sand 1 1 |
| | | Stiff yellow clay 1 2 |
| Well 11 | | Stiff gray clay |
| Hillside, J. J. Stubbs tract, 22 m | iles | Stiff yellow clay 6 9 |
| east of Wortham. | | Yellow sandy clay 9 18 |
| Stiff yellow clay 3 | 3 | Stiff gray and yellow clay 3 21 |
| Gray and yellow sandy clay 9 | 12 | Hard clay 21 |
| Gray and yellow sandy soap- | | 'No water sample collected. May 22, 1936 |
| stone 4 | 16 | |
| Gray and yellow sandy shale 2 | 18 | Well 16 |
| Gray shale 3 | 21 | Hillside, F. A. Coleman and J. Cooper |
| Blue shale 2 | 23 | tract, 7 miles northeast of Wortham. Stiff black clay 3 3 |
| No water gample apilested Merr 20 | 25 | |
| No water sample collected. May 20, | 1900 | Gray sandy clay 4 7 Stiff gray and yellow clay 7 14 |
| Well 12 | | Gray soapstone 1 15 |
| Beside draw, J. J. Stubbs tract, 4: | 1 | Blue sospstone 2 17 |
| miles east of Wortham. | 4 j | Gray and yellow soapstone 2 19 |
| | 3 | Rock 19 |
| Brown clay and sand 4 | 3 7 | No water sample collected. May 22, 1936 |
| Stiff brown clay 5 | 12 | |
| Stiff brown and yellow clay 2 | 14 | Well 17 |
| Gray sandy clay 2 | 16 | Creek bottoms, F. A. Coleman tract, J. |
| Gray clay and sand 2 | 18 | Sparks Survey, 72 miles east of Wortham. |
| Blue and yellow clay 3 Stiff blue clay 1 | 21 22 | Brown clay and sand 1 1 1 Bleck sand and clay 4 5 |
| Struck water at 15 feet. | 22 | Bleck sand and clay 4 5 Gray clay and sand 1 6 Brown sandy clay 3 9 |
| Water sample collected. May 20, 1 | 936. | Brown sandy clay 3 9 |
| | | Stiff brown clay 6 15 |
| Well 13 | | Gray and yellow sand 8 23 |
| Hillside, T. J. Red tract, 34 mile | S | Blue clay 1 24 |
| east of Wortham. | | Struck water at 15 feet. |
| Yellow sendy clay Yellow clay and sand 2 | 2 | Water level 10.8 feet below top of |
| Yellow cley and sand 2 Yellow gravelly clay, sand 5 | 4 9 | ground, 24 hours after hole completed. Water sample collected. April 20, 1936. |
| Rock | 9 | rader sample coffeeded, mpili so, loed. |
| No water sample collected. May 22 | , 1936 | <u>Well 18</u> |
| | | Gentle slope, Soggy Chancellor tract, |
| <u> Vell 14</u> | 1 | $\frac{1}{4}$ mile east of Railroad in J. Mathews |
| Creek bottoms, Jos. Nussbaum tract |) | Survey, 82 miles east of Wortham. |
| northeast corner of S. A. Sweet Su | rvey, 🚶 | Brown surface sand 1 1 |
| 5 miles east of Fortham. | | Stiff brown clay 2 3 |
| Black sandy clay 2 | 2 | Stiff blue sandy clay 1 4 |
| Stiff black clay | 3 | |
| | i | (Continued on next page) |

| | | in Freestone CountyContinue | | D |
|---|---------------|-----------------------------|-----------------|-----------------|
| Thicknes (feet) | 3. | | ckness feet) | Depth (feet) |
| (1660) | (1660) | | 1000) | (1000) |
| Well 18Continued | | Well 22 | | <i>1</i> . |
| Gray and yellow sandy clay 1 | 6 | Hillside slope, M. H. Harri | s tract | 3/4 |
| Yellow clay and sand | 7 | mile northwest of Kirvin. | | |
| Gray clay and sand | 8 | Brown sand | 1 | 1 |
| Yellow silty send 3 | 11 | Red clay and sand | 1 | 2 |
| Gray packed sand 2 | 13 | Yellow sandy clay | 2 | 4 |
| Hand packed sand | 13 | Stiff yellow clay | 2 | 6 |
| No water sample collected. Apr. | 20, 1936 | . Yellow clay and sand | 9 | 15 |
| THY 3.3. * O | | Brown clay and sand | 3 | 18 |
| Well 19 | | Soapstone | 37 0 | 18 |
| Hillside, M. H. Harris tract, w | | No water sample collected. | Mar. S | , 1936 |
| railroad in J. F. McGuffin Surv | e y, 7 | 1, | | |
| miles east of Wortham. | _ | Well 26 | . | |
| Brown surface sand 1 | 1 | Gentle slope near creek, Mr | | |
| Coarse yellow sand 2 | 1 3 | Laney tract, 1 mile south o | f Kirvi | - |
| Red and white sandy clay 3 | 6 | Yellow sand | <u> </u> | 1 |
| Red sandy clay 2 | 8 | Yellow sandy clay | 1 | 2 |
| Coarse red and white sand 3 | 11 | Brown sand and clay | 2 | 4 |
| Coarse red sand | 12 | Gray clay and sand | 2 | 6 |
| Coarse yellow sand | 13 | White silty sand | 9 | 15 |
| Coarse yellow and white sand 4 | 17 | Yellow silty sand | 2 | 17 |
| Struck water seep at 3 feet. | , | White silty sand | 1 | 18 |
| No water sample collected. Apr. | 20, 1936 | Yellow sand and gray soap- | | _ |
| | | stone | 1 | 19 |
| Well 20 | 7 | Yellow sand | 3 | 22 |
| Gentle slope, Burleson Church t | | Yellow sand and gray | | _ |
| miles northeast of Kirvin on St | ree tman | soapstone | 1 | 23 |
| road, $9\frac{1}{2}$ miles east of Wortham. | | Gray sand | 1 | 24 |
| Brown surface sand 2 | , 2 | Yellow sand | 5 | 29 |
| Brown sandy clay | 3 | No water sample collected. | Mar. 9, | , 1936 |
| Stiff yellow clay 2 | 5 | | | |
| Gray and yellow sandy clay 1 | 6 | Well 29 | | |
| Coarse gray send 1 | 7 | Creek bottoms, Gilliams Poi | | • |
| Gray and yellow sandy clay 1 | 8 | tract, la miles west of Kir | vin. | , 1 |
| Gray sendy clay 3 | 11 | Brown surface sand | 1 | 1 |
| Brown soapstone 1 | 12 | Blue sandy clay | 1 | 2 |
| Gray and yellow sandy clay 3 | 15 | Coarse yellow sand | 2 | 4 |
| Yellow silty sand 8 | 23 | Coarse gray sand | 2 | 6 |
| Gray clay and send 1 | j 24 | Gray and yellow sandy clay | 4 | 10 |
| Yellow sandy clay 4 | 28 | Gray clay and sand | 5 | 15 |
| Gray clay and packed sand 1 | 29 | Coarse gray and yellow sand | 2 | 17 |
| Gray and yellow clay and | | Grey sand | 5 | 22 |
| packed sand 1 | 30 | Blue sand | 7 | 29 |
| Black sand 1 | ! 31 | Struck water at 6 feet. | | ì |
| Black sandy lignite 1 | 32 | Water sample collected. Mar | . 23, 1 | .936 |
| No water sample collected. Mer. | 23, 1936 | ! | | |
| | | Well 31 | | |
| Well 21 | | Hilltop, L. C. Carter tract | $\frac{1-3}{4}$ | <u> </u> |
| In draw, F. Marberry tract, $1\frac{1}{4}$ | miles | miles west of Wortham. | - | Í |
| northeast of Kirvin. | i | Stiff red clay | 2 | 2 |
| Yellow clay and sand 2 | 2 | Red and yellow sand and cla | | 4 |
| Brown sand and clay 1 | 3 | Yellow silty sand | 7 | 11 |
| Brown sendy clay 3 | 6 | White silty sand | 2 | 13 |
| Yellow sand 5 | 11 | Yellow and white sand | 6 | 19 |
| Rock | 11 | Yellow sand | 1 | 20 |
| No water sample collected May 2 | • | White sand | 10 | 30 |

| Thickness Depth (feet) (feet) | Thickness Depth (feet) (feet) |
|---|--|
| | |
| Well 31Continued | Well 47 Grand bottoms S H Smith tract 61 |
| Gray sand 2 32 | Creek bottoms, S. H. Smith tract, $6\frac{1}{2}$ |
| Stiff yellow clay 1 33 | miles southwest of Kirvin. Brown sand 2 2 |
| Struck water at 30 feet. | |
| Mater sample collected. May 20, 1936. | provide production and a second |
| *** ** ** ** ** ** ** ** ** ** ** ** ** | liat a packed same |
| Well 32 | No water sample collected, Mar. 5, 1936 |
| Gentle slope, Ransom Stallworth tract, | ! } ; |
| 2-3/4 miles west of Kirvin. | <u>₩e11 50</u> |
| Brown surface sand 1 1 | Level, near Clay McKinney tract, on high- |
| Red clay and brown sand 1 2 | way 2,000 feet east of county line, 72 |
| Stiff red clay | miles southwest of Kirvin. |
| Red and yellow sandy clay 1 4 | Brown sand 2 2 |
| Yellow sand and clay 2 6 | Yellow clay 1 3 |
| Yellow sandy clay and soap- | Yellow sind and clay 3 6 |
| stone 6 12 | Coarse, light yedlew sand 5 11 |
| No water sample collected. Mar. 23, 1936 | Yellow sand 4 15 |
| Well 34 | Gray and yellow sand 8 23 |
| Gentle slope near draw, Alderman Bros. | Struck water at 15 feet. |
| tract, 3-3/4 miles west of Kirvin. | Water level, 11.7 feet below top of |
| Brown sandy clay 2 2 | ground, 2 hours after hole completed. |
| Brown packed sand 1 , 3 | Watersample collected. Mar. 3, 1936. |
| Yellow clay and sand 1 4 | Padel Asample Collected . Mat. 0, 1000. |
| | Well 54 |
| Yellow silty sand 3 7 | |
| Brown silty sand 2 9 | Gentle slope near draw, on State High- |
| White silty sand 5 14 | way No. 7, 72 miles southeast of Kirvin. |
| Yellow silty sand 5 19 | Brown sand 1 1 |
| Gray silty sand 3 22 Yellow silty sand 2 24 | Brown sandy clay 1 2 4 |
| Yellow silty sand 2 ! 24 Blue water sand 5 ! 29 | Yellow sandy clay 2 4 Yellow and red sandy clay 2 6 |
| Struck water at 24 feet. | Rock 6 |
| Water level, 22.5 feet below top of | No water sample collected. Feb. 20, 1936 |
| ground, $\frac{1}{4}$ hour after hole completed. | |
| Water sample collected. Mar. 10, 1936 | Well 55 |
| | Level land, on State Highway 7, 1.9 |
| Well 39 | miles east of county line, 7 miles south- |
| Creek bottoms, B. F. Robertson tract, 4 | west of Kirvin. |
| miles southwest of Kirvin. | Brown sand 1 1 |
| Brown sand 2 2 | Brown sand and gray clay 4 5 |
| Red and yellow sandy clay 1 ; 3 | Yellow clay and sand 2 7 |
| Stiff yellow clay 1 4 | Iron ore gravel 1 8 |
| | Coarse yellow sand 4 12 |
| Yellow iron ore gravel 3 9 | Coarse gray sand 1 13 |
| | Coarse yellow sand 6 19 |
| No water sample collected. Mar. 10, 1936 | |
| 77 3 7 40 | stone 7 28 |
| Well 42 | Fine yellow sand 3 29 |
| Level land, Kaiser Kuyaca tract, $5\frac{1}{2}$ miles | No water sample collected. Mar. 5, 1936 |
| southwest of Kirvin. | |
| Black gravel and sand 1 1 | Well 57 |
| Brown sand 1 2 | Hillside, M. C. Tyner tract, M. R. Als to |
| Red sandy clay 2 4 | Survey, la miles south of State Highway |
| Yellow sand and clay 2 6 | No. 7, 8 miles southwest of Kirvin. |
| Yellow packed sand 1 10 | Red and white sand and clay 3 3 |
| ÷ | Gray clay and sand 5 8 |
| Lard packed send | |
| Hard packed send 10 No water sample collected. Mar. 10, 1936 | Brown cley and sand 2 10 |

| Thicknes | s Depth | Thickness | Depth |
|---|----------|---|---------|
| (feet) | (feet) | | (feet) |
| | | | |
| Well 57Continued | | Well 69 | |
| Gray and yellow sand and | | Gentle slope, W. W. Ford tract, 4 | miles |
| clay 3 | 13 | south of Kirvin. | 1 17 |
| Gray and brown sand and soapstone 6 | 19 | Brown sand 3 Yellow sandy clay 1 | 3 4 |
| Soapstone 6 No water sample collected. June | | | 5 |
| to water Bampie Collected, other | 2000 | Gray and yellow sandy clay 2 | 7 |
| Well 58 | t | Gray sand 3 | 10 |
| Level land, Peter Beyer tract, I | Musick | Gray sandy clay | 11 |
| Survey, la miles northwest of Lin | nestone | Yellow sand 5 | 16 |
| Switch on T. & B. V. RR. 82 miles | | Brown sandy clay | 17 |
| of Kirvin. | | Soft gray clay | 18 |
| Stiff brown clay 3 | 3 | Soft purple clay | 19 |
| Brown sandy clay 4 | 7 | Gray send 1 | 20 |
| Yellow silty sand 6 | 13 . | Black clay | 20 |
| Gray sand | 14 | Struck water at 20 feet. | 1 |
| Brown clay and sand 13 | 27 | Water level, 19.3 feet below top of | |
| Gray silty sand 2 | 29 | ground, $\frac{1}{4}$ hour after hole complete | |
| Brown silty sand 1 Yellow sand 4 | 30 | Water sample collected. Mar. 9, 19 | 36. |
| Yellow sand 4 No water sample collected. June | 34 | Well 70 | |
| no water sample corrected, othe | 73 1900. | Level land, J. J. Ausley tract, 42 | - milee |
| Well 61 | ` | south of Kirvin. | |
| Gentle slope, near creek on High | vav No. | Brown sand 1 | 1 |
| 7, 7 miles south of Kirvin. | | Yellow sand | 2 |
| Brown sand 1 | 1 | Red and gray sandy clay 2 | 4 |
| Brown and gray sandy clay 3 | 4 | Gray sandy clay 4 | 8 |
| Gray sandy clay | 5 | Gray sand 7 | 15 |
| Gray and yellow sandy clay 2 | 7 | Coarse gray and yellow sand 3 | 18 |
| Coarse yellow sand 4 | 11 | Gray soapstone 3 | 21 |
| Gray sand 1 | 12 | Gray and yellow sandy soap- | |
| Yellow clay and sand 1 | 13 | stone 2 | 23 |
| Sandy clay 2 | 15 | Yellow silty sand 6 | 29 |
| Fine white sand 4 | 19 | No water sample collected. Mar. 7, | 1936 |
| Fine yellow silty sand 10 | 29 | 1 T 7 7 FC | |
| No water sample collected. Feb. | 1936 | Well 78 | |
| Well 66 | | Gentle slope near creek, side of cread, 32 miles north of Simsboro. | |
| Gentle slope, on county road opport | nsi te | yards west of B & R RR., 2-3/4 mil | |
| northeast corner of Cotton Gin C | | south of Kirvin. | 1 |
| 6 miles south of Kirvin. | , | Red and yellow sandy clay 2 | 2 |
| Brown sand and rock 2 | 2 | Yellow sandy clay 3 | 5 |
| Yellow sand 2 | 4 | Yellow clay and packed sand 3 | 8 |
| Yellow sandy clay 2 | 6 | Yellow silty sand 8 | 16 |
| Yellow sand 4 | 10 | Blue soapstone 1 | 17 |
| Yellow sand and gray soap- | | Iron ore rock | 17 |
| stone 1 | 11 | No water sample collected. Mar. 7. | 1936 |
| Gray soapstone 2 | 13 | | |
| Gray sand and soapstone 1 | 14 | Well 81 | |
| Yellow sand 4 | 18 | Gentle slope, A. P. Cater tract, 2 | miles |
| Brown iron ore sand 1 | 19 | southeast of Kirvin. | |
| White silty sand 4 | 23 | Yellow surface sand 2 Yellow sandy clay 2 | 2 |
| Yellow silty sand 6 | 29 | | 4 |
| No water sample collected. Mar. | 7990 | 'Gray, red, and yellow sandy | 5 |
| | | clay 1 Gray and red sandy clay 2 | 7 |
| | | (Continued on next page) | ' |
| | | (Approximen on neve bake) | ; |

| Thistman | Donth | Thickness Depth |
|---|--------------|--|
| Thickness (feet) | Depth (feet) | (feet) (feet |
| | (2000) | |
| Well 81Continued | | Well 89Continued |
| Gray and yellow sandy clay 8 | 15 | Yellow sandy clay 3 27 |
| Yellow sandy clay 2 | 17 | Purple and gray silty sand 2 29 |
| Cellow sand rock | 17 | Struck water at 28 feet. |
| Struck water at 6 feet. | | Water level, 24.8 feet below top of |
| To water sample collected. Mar. 20, | 1936 | ground, ½ hour after hole completed. |
| | | Water sample collected. Mar. 18, 1936. |
| Well 85 | | |
| Gentle slope, Tom Newman tract, on Field road, 23 miles east of Kirvin | Fair- | Well 91 |
| | | Gentle slope near creek, W. A. Davidson |
| Brown surface sand 2 | 2 | tract, in S. Park Survey, 8 miles south |
| Cellow sand | 3 | east of Kirvin. |
| Tellow sandy clay 2 | 5 | Brown sandy clay 2 2 |
| Brown and yellow sandy clay 1 | 6 | Gray and yellow sandy clay 3 5 |
| Gray and yellow sandy clay 3 | 9 | |
| ray sandy soaps tone | 10 | Stiff gray and yellow clay 2 8 |
| coarse gray sand 1 | 11 | Gray and yellow clay 3 11 |
| Coarse yellow sand 1 | 12 | Lignite and purple clay 1 12 |
| White silty sand 1 (ellow silty send 4 | 13 17 | Stiff purple clay 1 13 Gray and purple clay 2 15 Gray end sendy clay 1 16 Sandy clay 2 18 Yellow sandy clay 2 20 |
| Fray and yellow sendy clay 4 | ี่ 21 | Gray and purple clay 2 10 Gray and sandy clay 1 16 |
| Fray end yellow sand 2 | 23 | Sandy clay 2 18 |
| fellow sand 2 | 25 | Yellow sandy clay 2 20 |
| ray sand 6 | 31 | Gray sand 7 27 |
| Struck water at 29 feet. | | Yellow sand 1 28 |
| Water sample collected. Mar. 20, 1 | 1936. | Damp white sand 1 29 |
| | | No water sample collected. Feb. 19, 193 |
| Well 87 | | W 33 04 |
| Hilltop, Fred Carter tract, 31 mile | es | Well 94 |
| southeast of Kirvin. | | Gentle slope, John Wylie tract, a mile |
| Mellow surface sand 1 | 1 | north of State Highway No. 7, 8호 miles |
| Tellow clay and sand 1 | 2 | southeast of Kirvin. |
| Red and yellow clay and sand 1 | 3 | Yellow sand 5 5 |
| Red and white clay and sand 3 | 6 | Red and yellow sand 1 6 |
| Vellow packed sand 4 | 10 | Gray and yellow sand 4 10 |
| ray soapstone and yellow packed sand | 11 | Red, gray and yellow sand 5 15 Yellow and gray sand 8 23 |
| packed sand Thite silty sand 3 | 14 | Yellow and gray sand 8 23 Struck water at 20 feet. |
| Fray sand and soapstone | 15 | No water sample collected. Feb. 19, 193 |
| Coarse yellow sand | 16 | 10 He don bempie control deta 100 10 100 |
| ray silty sand 10 | 26 | Well 97 |
| rey and yellow silty sand l | 27 | Gentle slope near hilltop, near Jim |
| Tellow silty sand 2 | 29 | Short tract, on side road, 42 miles |
| o water sample collected. Mar. 20 | 1936. | north of Teague, $7\frac{1}{2}$ miles southeast of |
| | | Kirvin. |
| Well 89 | | Yellow sand 1 1 |
| Level land, Wm. Blakeney tract, 6호 | miles | Red and gray sandy clay 1 2 |
| southeast of Kirvin. | | Gray sandy clay 4 6 |
| Brown surface sand 2 | 2 | Gray and yellow sendy clay 1 7 |
| Red and yellow sandy clay 2 | 4 | White silty sand 14 21 |
| Yellow sandy clay 6 | 10 | White and yellow silty sand 1 22 |
| Frey send and soapstone 1 | 11 | Grey silty send 5 27 |
| ray silty sand 2 | 13 | Gray and yellow silty sand 2 29 |
| ~ · · · · · · · · · · · · · · · · · · · | 20 | No water sample colle cted. Feb. 13, 19 |
| Thite silty sand 7 | | The state of the s |
| | | |
| Wellow silty sand 3 | 23 | |
| | | |

| _ | | | | |
|--|------------------|----------------|---|----------------------|
| | Thickness | Depth | Thickness | |
| | (feet) | (feet) | (feet) | (feet) |
| Woll Do | | | Wall los Cautional | |
| Well 98 Hilltop, J. R. Sheffield | treat 2 | : m:10a | Well 105Continued | • |
| east of Simsboro, $6\frac{1}{2}$ mil | | | Gray and yellow clay and sand | 5 |
| Kirvin. | es sountes | 18 6 01 | | 7 |
| Orange sandy clay | 1 | 1 | Gray and red clay and sand 2 Gray and yellow sand 2 | 9 |
| Stiff orange clay | า | 1 2 | Gray sand 3 | 12 |
| Yellow sand and clay | i | 3 | Yellow sand | 13 |
| Gray soapstone | 2 | 5 | Gray and yellow clay and | 1 |
| Gray soapstone and decay | red | | sand 2 | 15 |
| vegetable matter | 1 | 6 | Yellow clay and sand 1 | 16 |
| Gray soapstone | ĺ | 7 | Gray sand 3 | 19 |
| Lignite | 1 | 8 | Gray clay and sand with de- | |
| Grap scapstone | 1 | 9 , | cayed vegetable matter 3 | 22 |
| Purple sand and soapston | ie 1 | 10 | Fine gray and yellow sand 5 | 27 |
| Purple packed sand | 1 | 11 | Coarse gray and yellow sand 1 | 28 |
| White packed sand | 2 | 13 | Yellow clay and sand 1 | 29 |
| Hard packed sand | | 13 | No water sample collected. Feb. | |
| No water sample collecte | ed. Mar. 18 | 1936. | ı | |
| Well 99 | | · | Well 108 | , |
| Hilltop, Charles Phillip | os tract, 2 | miles | Gentle slope, John Neece tract, | |
| east of Simsboro, 62 mil | es south c | of | east of railway, 8 miles south or | f Kirvin, |
| Kirvin. | 0 | | Yellow sand | 1 |
| Yellow sand Red and white sandy clay | 6 7 6 | 12 | Yellow and red sandy clay 3 | 4 6 |
| Coarse yellow sand | 4 | 16 | Red and gray sandy clay 2 Fine gray sand 2 | 8 |
| Damp white silty sand | ī | Ĩ7 | Gray sandy clay | 9 |
| Gray silty sand | 3 , | 20 | Gray sand | 10 |
| White sand and soapstone | 2 | 22 | Fine yellow sand 8 | 18 |
| Fine yellow sand Fine white sand | L i | 23 29 | Fine white sand | 21 22 |
| No water sample collecte | od. Mar. 18 | | Yellow sand 1 Coarse gray sandy clay 2 | 24 |
| | d, nai, ic | 1 2000 | Damp yellow sand 3 | $\tilde{2}\tilde{7}$ |
| Well 102 | | 1 | Gray end yellow sandy clay 1 | 28 |
| Level land, on county ronorth of Teague, 72 mile | oad 2-3/4 m | liles | Yellow sand | 29 |
| Kirvin. | es southeas | t or | No water sample collected. Feb. | 11, 1990 |
| Yellow sand | 1 | 1 | Well 110 | |
| Gray and red sandy clay | 2 | 3 ' | Gentle slope, on State Highway No | o. 7. |
| Yellow sandy clay | 2 | 5 | 3호 miles northwest of Teague, 7호 | miles |
| Gray sandy clay | ay 2 | 6 | south of Kirvin. | 7 |
| Gray and yellow sandy cl Gray sandy clay | ay 2 | 8 _[| Yellow sand 1 Yellow sandy clay 3 | 1 4 |
| Gray and yellow sandy cl | ay 7 | 16 | Gray and yellow sand | $\overline{7}$ |
| Gray clay | 1 | 17 | Red sand 2 | 9 |
| Gray sand and purple cla | $\mathbf{v} = 1$ | 18 | Gray and red sand 3 | 12 |
| Purple and gray sand | 2 | 20 | Struck water at 4 feet. | |
| Gray, yellow and purple | i | | No water sample collected. Feb. | 17 , 1936 |
| sandy clay | 1 8 | 21 (29 (| ארר בייזות | |
| Gray sand | ~ | 29 | Gentle slope, on county road, $6\frac{1}{2}$ | milog |
| Struck seep water near s | | 1076 | | WITTED |
| No water sample collecte | ous rens le | 1300 | south of Kirvin. Gray and yellow clay 2 | 2 |
| Well 105 | 5 | | Gray and yellow clay | 13 |
| Level land, near Helen K | | on side | Damp gray soapstone 2 | 15 |
| road near State Highway | | | Gray and yellow soapstone 4 | 19 |
| north of Teague, 82 miles | | | Gray soaps tone | 20 |
| Brown sand | 1 , | 1 | Gray sand and soapstone 4 | 24 |
| Yellow sand | 1 | 2 | (Continued on next page) | |
| LULION DOMA | - 1 | £, | Committee on neve bake | , |

| | | | n Frees cone Councy-Concinued | |
|--|----------|-------------|--|------------------------|
| | kness | Depth | | Depth |
| (1 | eet) | (feet) | (feet) (| feet) |
| Well 114Continu | 16d | | Well 127 | |
| Yellow sand and gray soap- | AG CL | | Level land, on county road, $\frac{1}{2}$ mile | west |
| stone | 4 | 28 | of Teague, 9 miles south of Kirvin | • |
| Gray sand and soapstone | ī | 29 | Brown sand 2 | 2 |
| No water sample collected. M | Mar. 3. | | Brown sandy clay | 3 |
| | | 1 | Gray and yellow sandy clay 2 | 5 |
| Well 119 | | i | Stiff yellow clay | 6 |
| Creek bottoms, on State High | iway No | . 7, | Gray and yellow clay 2 | 8 |
| 5 miles west of Teague, 72 m | niles s | outh | Gray soaps tone 2 | 10 |
| of Kirvin. | | 1 | Yellow silty sand 3 | 13 |
| Brown send | 2 | 2 | Yellow sandy clay | 14 |
| Gray and red sandy clay | 3 | 5 , | Gray silty sand | 15 |
| Gray and yellow sandy clay | 5 | 10 | Gray sandy clay | 16 |
| Purple and brown sand | 1 | 11 | Grey and yellow sand | 17 |
| Yellow sand | 2 | 13 | Gray sand and soapstone 1 | 18 |
| Gray and yellow sand | 2 | 15 | Yellow sand and gray soap- | 3.0 |
| Yellow sandy clay | 2 | 17 | stone | 19 |
| Gray sandy clay | 1 | 18 | Gray soapstone | 20 |
| Red and yellow sand | 3 | 21 | Purple silty sand 1 White silty sand 2 | 21 23 |
| Brown sand and lignite | 1 | 22 | | 25 25 |
| Lignite Blue shale | 1 2 | 23 25 | | 29 |
| Light blue sand and shale | 4 | 29 | Yellow silty sand 4 No water sample collected. Feb. 28 | |
| No water sample collected. H | _ | 1 | No water sample collected, reb. 20 | , 1000 |
| no water sample corrected; | - GD. LO | , 1000 | Well 200 | |
| Well 121 | | ļ | Flat, H. Carroll tract, at west ci | tv |
| Level land, 2,000 feet east | of Lim | estone | limits of Streetman, 1,000 feet so | |
| on county road, 9 miles sout | | | county line. | |
| Brown sand | 3 | 3 | Brown surface sand 1 | 1 |
| Grayish-yellow sand and clay | 7 2 | 5 | Yellow sendy clay | 2 |
| Grayish-yellow sandy clay | 3 | 8 | Stiff brown clay 1 | 3 |
| Coarse yellow sand | 5 | 13 | Gray sandy clay 3 | 6 |
| Stiff gray clay | 3 | 14 | Gray and yellow sandy clay 1 | 7 |
| Gray sandy clay | 2 | 16 | Coarse gray sand 1 | 8 |
| Yellow sand | 2 | 18 | Brown and yellow sandy clay 3 | 11 |
| Yellow sandy clay | 2 | 20 | Gray and yellow sandy clay 20 | 31 |
| Yellow packed sand | 3 | 23 | No water sample collected. May 21, | 1936 |
| No water sample collected. M | Mar. 6, | 1936 | 77. 37. 007 | |
| ##. 3.3 . 3.0.0 | | | Well 201 | 1 |
| Well 125 | L ol | * 7 | Gentle slope, 25 yards east of rai | |
| Hillside, P. L. Luckey tract | | | near Kirvin road on G. B. Speed tr | ** C C , |
| west of Teague, 9½ miles sou | _ | | 1 1 days miles south of Streetman. | 9 |
| Red and yellow sandy clay | 2 | 2 | Brown surface sand 2 | 2 |
| Red and gray sandy clay | 2 | 4 5 | Brown sand and clay 1 Stiff vellow sand and clay 2 | 3 5 |
| Gray sandy clay | 2 | t | 1 | 11 |
| Coarse yellow and gray sand Yellow sand | 1 | 7 8 | Yellow clay and sand 6 Coarse yellow sand 5 | 16 |
| Gray sand | 1 | 9 | Gray and yellow sandy clay 1 | 17 |
| Yellow sand | 14 | 23 | Stiff brown and yellow clay 1 | 19 |
| Stiff blue clay | 3 | 26 | Yellow silty sand 4 | 22 |
| Struck water at 17 feet. | • | | Gray and yellow silty sand 2 | 24 |
| Water level, 15.8 feet below | w top o | f | Yellow silty sand 3 | 27 |
| ground, $\frac{1}{4}$ hour after hole co | omple te | d. | No water sample collected. May 21, | |
| Water sample collected. Man | | | Managara and a second s | |
| | | | | |

| Thicknes | _ | Depth | Thickness | Depth |
|--|-------------------------|------------------------------------|---|--|
| (feet |) | (feet) | (feet) | (feet) |
| Well 202 | | | Well 209 | |
| Creek bottoms, Frank Coleman to | | | Hilltop, Mrs. M. D. Thurman tract | |
| Highway 75, 12 miles southeast | of S | Street- | i of Tehuacana Creek, 5 miles east | of |
| man. | 1 | | Streetman. | 1 |
| Brown clay and sand 2 | i i | 2 | Yellow clay and sand 1 | 1 |
| Yellow clay end sand 6 | ł | 8 | Gray and yellow sandy clay l | 2 |
| Yellow sandy clay and iron | | | Gray clay and sand | 3 |
| ore gravel | i | 9 | Yellow silty sand l | 4 |
| Brown sandy clay and iron | į | | Gray and yellow silty sand l | 5 |
| ore gravel | | 10 | Yellow silty sand 4 | 9 |
| Tellow clay and sand 2 | | 12 | Gray silty sand | 10 |
| Gray send and shale 1 | ì | 13 | Yellow silty sand l | 11 |
| Hard blue shale 6 | ļ | 19 | Gray silty packed send 5 | 16 |
| Rock | | 19 | ' Hard packed sand | 16 |
| Struck water at 17 feet. | i | | , No water sample collected. Apr. 1 | 5, 1936 |
| No water sample collected. Ap: | r. 6 | 1936 | 1 | |
| | | | Well 210 | |
| Well 203 | | | Hillside, Mrs. Emily Jackson trac | t near |
| Hillside, Lige Edwards tract ne | ear F | (irvin | Highway 75, 4-3/4 miles southeast | |
| road, 2-3/4 miles south of Stre | ee tma | an. | Streetman. | 1 |
| Red sandy clay 3 | | 3 | Brown surface sand 2 | 2 |
| Red clay and sand 3 | ĺ | 6 | Stiff brown clay 1 | 3 |
| Frown gravelly send 1 | - | 7 | Red and yellow sandy clay 3 | 6 |
| ray and yellow sandy clay 7 | 1 | 14 | Fine yellow sand | 7 |
| coarse orange sand 9 | 1 | 23 | Fine gray and yellow sand 6 | 13 |
| Fray and yellow sand and clay (| 8 | 31 | Fine orange sand 2 | 15 |
| Fray and yellow sandy clay 3 | , | 34 | Fine yellow sand 6 | 21 |
| No water sample collected. May | | | Brown and yellow silty sand 1 | 22 |
| The state of the s | ~ = , | | Yellow silty sand 6 | 28 |
| Well 204 | | ! | Yellow clay and sand | 29 |
| Hillside, Mrs. E. C. Deaklee to | rent | neer | Blue sandy shale | 30 |
| Highway 75, 24 miles southeast | | 11000 | Struck water seep at 29 feet. | 00 |
| Streetman. | 01 | Î | = | 1936 |
| Stiff red clay | | ۱ ۲ | Water semple collected. Apr. 6, | 1900 |
| Red sand and clay 2 | 1 | 1 ; | M-17 917 | |
| Red and yellow sandy clay | 1 | 3 | Well 211 | ٦ |
| Fine yellow sand 12 | i | 4 | Flat, Earl Easterling tract, 2 mi | |
| Fine brown and yellow sand 3 | | 16 | west of Highway 75, W. Carter Sur | vey, |
| Brown and gray sandy scapstone | 1 | 21 | 4\frac{1}{4} miles southeast of Streetman. | 1 |
| Yellow clay and sand | 4 | 22 | Red stiff clay 1 Stiff yellow clay 2 | 1 |
| | | 31 | ; | 3 |
| Vallass as later as not | | ; | Stiff gray clay 3 Stiff gray and yellow clay 2 | 6 |
| | i | 3000 | | 8 |
| | i | 1936 | | |
| lo water sample collected. Apr | i | 1936 | Gray clay and sand 2 | 10 |
| No water sample collected. Approximately Mell 205 | r. 6, | 1 | Gray clay and sand 2 Orange silty sand 2 | 10 12 |
| No water sample collected. Approximately App | r. 6, | n old | Gray clay and sand 2 Orange silty sand 2 White packed sand 4 | 10 12 16 |
| Well 205 Gentle slope, Ed. McMullen traceighway, 32 miles east of Street | r. 6, | n old | Gray clay and sand 2 Orange silty sand 2 White packed sand 4 Yellow packed sand 5 | 10 12 16 21 |
| Well 205 Sentle slope, Ed. McMullen trace sighway, 32 miles east of Street Nite surface sand | r. 6, | old | Gray clay and sand 2 Orange silty sand 2 White packed sand 4 Yellow packed sand 5 Gray and purple packed sand 1 | 10 12 16 21 22 |
| Well 205 Gentle slope, Ed. McMullen trachighway, 32 miles east of Streethite surface sand Stiff brown clay | r. 6, ct or etmar | n old | Gray clay and sand 2 Orange silty sand 2 White packed sand 4 Yellow packed sand 5 Gray and purple packed sand 1 Yellow packed sand 1 | 10 12 16 21 22 23 |
| Well 205 Gentle slope, Ed. McMullen trace ighway, 32 miles east of Street White surface sand 1 Stiff brown clay 3 tray sand and clay 1 Gray and yellow sandy clay 1 | r. 6, | 1 old 1 4 5 6 | Gray clay and sand 2 Orange silty sand 2 White packed sand 4 Yellow packed sand 5 Gray and purple packed sand 1 Yellow packed sand 1 Yellow clay and sand 1 | 10 12 16 21 22 23 24 |
| Well 205 Gentle slope, Ed. McMullen trace sighway, 32 miles east of Street white surface sand 1 stiff brown clay 3 tray sand and clay 1 tray and yellow sandy clay 1 tellow and brown sand 7 | r. 6, | 1 old 1 4 5 6 13 | Gray clay and sand 2 Orange silty sand 2 White packed sand 4 Yellow packed sand 5 Gray and purple packed sand 1 Yellow packed sand 1 | 10 12 16 21 22 23 24 25 |
| Well 205 Gentle slope, Ed. McMullen trace ighway, 32 miles east of Street White surface sand 1 stiff brown clay 3 fray sand and clay 1 fray and yellow sandy clay 1 fellow and brown sand 7 fine gray and yellow sand 6 | r. 6, | 1 old 1 4 5 6 13 19 | Gray clay and sand 2 Orange silty sand 2 White packed sand 4 Yellow packed sand 5 Gray and purple packed sand 1 Yellow packed sand 1 Yellow clay and sand 1 | 10 12 16 21 22 23 24 |
| Well 205 Gentle slope, Ed. McMullen trace highway, 32 miles east of Street Mhite surface sand 1 Stiff brown clay 3 Gray sand and clay 1 Gray and yellow sandy clay 1 Yellow and brown sand 7 Fine gray and yellow sand 6 Fine yellow sand 3 | r. 6, | 1 old 1 4 5 6 13 19 22 | Gray clay and sand 2 Orange silty sand 2 White packed sand 4 Yellow packed sand 5 Gray and purple packed sand 1 Yellow packed sand 1 Yellow clay and sand 1 Yellow packed sand 1 | 10 12 16 21 22 23 24 25 |
| Well 205 Gentle slope, Ed. McMullen trace highway, 32 miles east of Street white surface sand 1 Stiff brown clay 3 Gray sand and clay 1 Gray and yellow sandy clay 1 Yellow and brown sand 6 Fine gray and yellow sand 6 Fine yellow sand 7 Stine white sand 2 | r. 6, | 1 old 1 4 5 6 13 19 22 24 | Gray clay and sand 2 Orange silty sand 2 White packed sand 4 Yellow packed sand 5 Gray and purple packed sand 1 Yellow packed sand 1 Yellow clay and sand 1 Yellow packed sand 1 Gray sand and clay 1 | 10 12 16 21 22 23 24 25 26 |
| Well 205 Gentle slope, Ed. McMullen trace highway, 3½ miles east of Street Mhite surface sand 1 Stiff brown clay 3 Gray sand and clay 1 Gray and yellow sandy clay 1 Yellow and brown sand 7 Fine gray and yellow sand 6 Fine yellow sand 3 | r. 6, | 1 old 1 4 5 6 13 19 22 | Gray clay and sand 2 Orange silty sand 2 White packed sand 4 Yellow packed sand 5 Gray and purple packed sand 1 Yellow packed sand 1 Yellow clay and sand 1 Yellow packed sand 1 Yellow packed sand 1 Yellow packed sand 1 Yellow packed sand 1 Gray sand and clay 1 Yellow packed sand 1 | 10 12 16 21 22 23 24 25 26 27 |
| Well 205 Gentle slope, Ed. McMullen trachighway, 32 miles east of Streethie surface sand Stiff brown clay Gray sand and clay Gray and yellow sandy clay Yellow and brown sand Fine gray and yellow sand Fine yellow sand Fine white sand Gine yellow sand Fine yellow sand | r. 6, | 1 old 1 4 5 6 13 19 22 24 27 29 29 | Gray clay and sand 2 Orange silty sand 2 White packed sand 4 Yellow packed sand 5 Gray and purple packed sand 1 Yellow packed sand 1 Yellow clay and sand 1 Yellow packed sand 1 Gray sand and clay 1 Yellow packed sand 1 Brown packed sand 1 | 10 12 16 21 22 23 24 25 26 27 28 28 |

| Thickr (fee | | Depth (feet) | Thickne (feet | | epth feet |
|-------------------------------|--------------|---------------------------------------|--|-------------|--------------|
| | · · · | · · · · · · · · · · · · · · · · · · · | Fr. 11 210 | ستسبب دوستر | |
| Well 212 | | 100 | Well 219 Hillside, T. R. Bonner tract on | 6.50 | |
| Hillside, O. W. Young tract 2 | | | | | |
| west of Highway 75, H. Burles | | survey, | highway, 6½ miles east of Stree | Ciliatit. | 3 |
| S miles southeast of Streetms | an. | | Red clay and sand | į | 1 |
| Brown surface sand | 1 | 1 | Red and yellow sandy clay 2 | | |
| Stiff red clay | 1 | 2 . | Stiff yellow clay | | 4 |
| Stiff yellow clay | 2 | 4 | Red and gray sandy clay | 1 | Ę |
| Brown gravelly sand | 1 | 5 | Red and white sandy clay 3 | | 3 |
| Hard gray soapstone | 3 | 8 | Stiff gray clay 4 | | 12 |
| Fine yellow sand | 2 | 10 | Yellow silty sand | 1 | 13 |
| Fine white sand | 2 | 12 | Gray sand and clay | 1 | 14 |
| Tellow clay and sand | 1 | 13 | | | 17 |
| Fray packed sand | 5 | 18 | Yellow and white silty sand 2 | ; | 19 |
| Yellow packed sand | 1 | 19 | Gray and yellow silty sand 2 | . | 2] |
| Hard packed sand | | 19 ' | Gray silty sand | ; [| 23 |
| No water sample collected. A | or. | 20. 1936 ¹ | Gray and yellow silty sand 1 | | 24 |
| | · | | Iron ore rock | | 24 |
| Well 214 | | • | No water sample collected. Apr. | 15. | 1936 |
| Gentle slope, T. R. Bonner to | ract | near | | | |
| Highway 75, 6분 miles southeas | st o | f | Well 224 | | |
| Streetman. | 3 Q O. | • | Gentle slope, Ed. Watson tract, | James | 5 |
| | 7 | 7 | James Survey, 8 miles southeast | | J |
| Brown sandy clay | 2 | 3 | Streetman. | , 01 | |
| Stiff brown clay | | . 1 | | 1 | |
| Coarse gray sand | 1 | 4 | Yellow surface sand | | |
| Coerse gray and yellow send | 1 | 5 | Red and yellow sandy clay | | , |
| Gray and yellow sand | 2 | 7 | Red and white sandy clay | | (|
| White sand | 2 | 9 | Red and white sand | | { |
| Gray and yellow sand | 1 | 10 | Salmon colored sand | | 10 |
| Fine gray and yellow sand | 3 | 13 | Yellow sand | 7 | 12 |
| Fine yellow sand | 3 | 16 | White sand | | 2 |
| Fine brown sand | 1 | 17 | Yellow sand | ; | 2 |
| Fine gray and yellow sand | 3 | 20 | Yellow and white sand | ; | 29 |
| ine yellow sand | 2 | 22 | Yellow sand | , | 3: |
| Yellow sand and iron ore | 1 | | Yellow and white sand | _ | 3 |
| gravel | 1 | 23 | i . | 3 | 3! |
| Blue and gray sandy shale | 4 | 27 | Quicksand | ´ | 3. |
| No water sample collected. A | | 1 | Struck water at 32 feet. | ļ | |
| wo water sample collected, A | OT. | 0, 1330 | No water sample collected. Apr. | 1 1 | 036 |
| Well 218 | | i | No water sample corrected. Apr. | <u> </u> | 300 |
| Flat, J. R. Sessions tract, | 7 <u>1</u> m | 1100 | Well 225 | | |
| southeast of Streetman | 15 m | 1100 | Flat, W. M. McCarver trace on B | annan | |
| Yellow surface sand | 9 | . 9 | • | | |
| | 2 | - (| ville road, 8 miles east of Str | _ | |
| Stiff yellow clay | 3 | 5 | | <u></u> | |
| Yellow sandy clay | 1, | 6 | Orange clay and sand | | (|
| Fray and yellow sand, clay | 1 ! | 7 | Gray and red sand | - , | |
| Yellow clay end sand | 3 | 10 | Grey sand | 1 | 8 |
| Stiff gray clay | 1 , | 11 | Gray clay and sand | 3 | 10 |
| Fray silty sand | 2 | 13 | Gray sandy clay | . İ | 1 |
| Brown clay and sand | 2 | 15 | Black sandy clay | <u>.</u> | 12 |
| Purple clay and decayed veg- | į | | Gray sendy clay | 1 | 1 |
| etable matter | 1 | 16 | Yellow clay | - 1 | 2 |
| Thite silty sand | 1 ! | 17 | | 3 | 2 |
| | 1 | | | 1 | 3 |
| Yellow silty sand | 1 | 18 | J | , | Ð. |
| Iron ore rock | | 18 | Struck water at 9 feet. | 1000 | |
| No water sample collected. A | nr. | 14 1936! | Water sample collected. May 13, | 1936 | |

| T | nickness (feet) | Depth (feet) | Thickness (feet) | Depth (feet) |
|----------------------------|--------------------|-----------------|-----------------------------------|---------------------------------------|
| Well 226 | | | Well 230Continued | |
| Gentle slope, S. H. Bonner | r tract o | n Bon- | Fine yellow sand 1 | 12 |
| nerville road, 9 miles eas | | | Gray sandy clay 4 | 16 |
| Stiff black clay | 1 | . 7 | Gray sand 2 | 18 |
| Stiff gray and yellow clay | v 4 | 5 | Yellow sand 5 | 23 |
| Stiff yellow clay | 1 | 6 | Gray sand 6 | 29 |
| Brown gravelly clay | 2 | 8 | Yellow sand 9 | 38 |
| Yellow sandy clay | 3 | 11 | Blue sandy soapstone 1 | 39 |
| Iron ore rock | 1 | 12 | Brown and yellow sand | 40 |
| Rock | - | 12 | Purple sandy clay | 41 |
| No water sample collected | Merr 13 | , | Gray sand 2 | 43 |
| no water sample outloaded | may re- | 1000. | Struck water at 42 feet. | |
| Well 227 | | į | Water sample collected. May 14, | 1936. |
| Flat, C. H. and E. M. Wat | son tract | t on | na doi bambio doizo do da | |
| Winkler road, 92 miles ear | | | Well 231 | |
| Stiff red clay | 3 0 0 2 0 0 | 3 | Gentle slope, T. P. Watson Estate | e near |
| Stiff yellow clay | 1 | 4 | Wildcat road, 8 miles north of Fe | airfield. |
| Stiff red clay | ī | 5 | Yellow surface sand 1 | 1 |
| Yellow clay and sand | 2 | 7 | Yellow sandy clay | 2 |
| Yellow silty sand | 2 | 9 | Red and yellow sandy clay | 3 |
| Yellow clay and sand | ĩ | 10 | Stiff yellow clay | , 6 |
| Yellow silty sand | 2 | 12 | Gray and yellow sandy | |
| Gray sand and clay | ĩ | 13 | soapstone 14 | 20 |
| Yellow packed sand | 3 | 16 | Gray soapstone | 21 |
| Iron ore rock | Ü | 16 | Yellow packed sand | 22 |
| No water sample collected | May 14 | | Yellow packed sand and blue | |
| no water barpic ouries acc | way II | - 10000 | shale 1 | 23 |
| Well 229 | | i | Brown hard packed sand 2 | 25 |
| Hillside, W. R. Bonner tr | ect near | ^ *055¥ | Hard packed send | 25 |
| roads on Bonnerville road | | | No water sample collected. Apr. | |
| of Streetman. | , og maa | | TO WOOD BRIDE OF THE | |
| Yellow surface sand | 7 | 1 1 | Well 232 | |
| Gray and red sandy clay | 3 | 1 4 | Hillside, G. H. Watson tract nea | r old |
| Gray clay and sand | 3 | 7 | | ield. |
| Yellow clay and sand | 1 | 8 | Yellow surface sand 1 | 1 |
| Brown scaps tone | î | 9 | Yellow clay and sand | 2 |
| Gray and yellow soapstone | _ | 11 | Red clay and sand | 3 |
| Purple scaps tone | ī | 12 | | 5 |
| Gray and yellow somestone | | 14 | Salmon-pink sand 2 | 7 |
| Purple soapstone | 1 | 15 | r | 13 |
| Black sandy lignite | ī | 16 | Gray sand 3 | 16 |
| Purple sand and soapstone | | 18 | Yellow sand 6 | 22 |
| Blue and yellow soapstone | | 20 | Gray sand 10 | 32 |
| Blue soapstone | ī | 21 | No water sample collected. May 1 | į. |
| Black stone coal | ī | 22 , | To wa dol bemple obligation | · · · · · · · · · · · · · · · · · · · |
| Hard stone coal | 1. | 22 | Well 234 | |
| | Most 13 | | Hillside, G. H. Watson tract nea | r old |
| No water sample collected | · May 10 | , 1000. | highway, 6 miles north of Fairfi | |
| Well 230 | | | Coarse yellow send 7 | 7 |
| Hillside, T. R. Bonner tr | ant noon | I.eka : | Red clay and sand | 8 |
| Chapel road, 72 miles nor | | | Red and yellow sandy clay 2 | 10 |
| Stiff red sand | on or ra | ; 2 | Yellow sand 4 | 14 |
| | 1 | 3 | Yellow water sand 6 | 20 |
| Red sandy clay | 2 | 5 | Quicksand | 20 |
| Orange sand | 1 | 6 | Struck water at 17 feet. | |
| Brown gravelly sand | 1 | 7 | No water sample collected. Apr. | 14, 1936 |
| Yellow sand | 1 4 | 11 | no waser sombte correspect whit | , |
| White sand | 4 | 1 11 | | |

| | ickness (feet) | Depth (feet) | | mess et) | Depth (feet) |
|---|-------------------|-----------------|--|-------------|-----------------|
| Well 238 | | | Well 247Continu | ned. | |
| Hillside, Jim Frazier trace | t noon I | Hi mb | Yellow and white sand | 100 | 15 |
| | | | | Ţ | 15 |
| way 75, 6½ miles northwest | OI LETI | | White sand | 2 | 17 |
| Yellow surface sand | ک 4 | 2 | Yellow sand | 3 | 20 |
| Red clay and sand | . 4 | 6 | White sand | 4 | 24 |
| Fine red and gray packed sa | | 9 | Yellow sand | 4 | 28 |
| Fine yellow packed sand | 7 | 16 | Gray sand | 4 | 32 |
| Fine red and gray packed se | | 19 | Struck water at 29 feet. | | |
| Fine gray packed sand | 7 | 26 | Water le vel, 29.5 feet belo | | |
| Fine red and gray packed sa | and 2 | 28 | ground, 3 hours after hole of | | |
| Hard white sand | 4 | 32 | Water sample collected. Apr | 3, | 1936. |
| Caving | | 32 | 1 | | |
| Struck water at 31 feet. | | ŀ | Well 251 | | |
| No water sample collected. | Apr. 3, | 1936. | Gentle slope, M. L. Watson t | ract | on |
| Well 241 | | | Steward Mill road. J. N. Cla | ypool | Sur- |
| Hillside, J. Livingston tra | act, 3 n | niles | vey, $4\frac{3}{4}$ miles north of Fairf | dield. | |
| west of Highway 75 near Kin | | | Yellow sandy clay | 1 | 1 |
| miles northwest of Fairfie | | | Red and yellow sandy clay | 4 | 5 |
| Brown surface sand | 1 | 1 1 | Stiff yellow clay | 1 | 6 |
| Stiff red clay | 1 | 2 | Stiff gray clay | 1 | 7 |
| Red and yellow clay and sar | nd 2 | 4 | Gray sand and clay | 1 | 8 |
| Yellow clay and sand | 6 | 10 | Gray sandy clay | 1 | 9 |
| Brown sand and clay Brown sandy clay | 3 4 | 17 | Yellow sand Gray sand | i | 11 |
| Yellow clay and sand | i | 18 | Gray and yellow sand | 3 | 14 |
| Gray clay and sand | $\overline{4}$ | 22 | Yellow sandy clay | ĭ | 15 |
| Gray and yellow sendy clay | 2 | 24 | Gray sandy clay | 1 | 16 |
| Gray and yellow sand | 2 | 26 | Fine gray silty sand | 3 | 19 |
| Purple and yellow sand | 3 | 29 | Fine brown silty sand | 1 | 20 |
| Struck water at 14 feet. | | | Iron ore rock | | 20 |
| Water sample collected. Ap | pr. 16, | 1936. | No water sample collected. | Apr. 1 | 4 , 1936 |
| Well 243 | | | W-11 259 | | |
| | 1 <u>1</u> | 100 | Well 252 | ים מ | Enna |
| Hillside, M. J. Tate tract | | | Hilltop, W. E. Jones tract, | | |
| west of Highway 75 near Kin | | id, o | Survey, 4\frac{1}{22} miles north of Fa | - | _ |
| miles northwest of Fairfiel | _ | | Stiff brown clay | 1 | 1 |
| Red sandy clay | 4 | 4 | Stiff gray clay | 3 | 4 |
| Red and gray sand | 2 | | · Gray sendy clay | 3 | 7 |
| Yellow sand | 2 | 8 | Stiff gray clay | 2 | 9 |
| Yellow packed sand | 3 | 11 | White sand | 1 | 10 |
| Yellow sandy clay | 1 | 12 | Stiff brown sandy clay | 1 | 11 |
| Yellow packed sand | 4 | 16 | Yellow sandy clay | 3 | 14 |
| Yellow sand | 10 | 26 | Gray sandy clay | 3 | 17 |
| Yellow sandy clay | 3 | 29 | Stiff brown clay | 1 | 18 |
| No water sample collected. | Apr. 16 | 1936 | Stiff gray clay | 2 | 20 |
| | | , | Yellow packed sand | 7 | 27 |
| Well 247 | | | Gray clay and packed sand | 2 | 29 |
| Gentle slope, R. Tr. York to | ract nea | ar High- | | pr. 13 | 1936 |
| way 75, $4-3/4$ miles northw | | - 1 | | | |
| Fairfield. | | - | Well 258 | | |
| Yellow surface sand | 1 | 1 | Gentle slope, Carl Williford | i trac | t. |
| Brown sandy clay | î | 2 | 1,000 feet south of Lake Cha | | |
| Stiff red and gray clay | 3 | 5 , | near Ward Prairie road, 4-3 | | |
| Red and gray sandy clay | 2 | 7 | north of Fairfield. | _ 11144 | 1 |
| | ı 1 | 8 | 1 | 3 | 1 |
| Yellow sandy clay | 2 | į | Brown and walley sandy alay | i O | 1 3 |
| Coarse yellow sand | |) | Brown and yellow sandy clay | | 5 |
| White sand | 4 | 14 | Stiff brown and yellow clay | | 5 |
| | | | (Continued on next page | ge) | |
| | | | | | |

| Thickness | Depth | Thicknes (feet) | |
|--|-----------|---|-----------------|
| (feet) | (feet) | (Tee c) | (166.0) |
| Well 258Continued | i | Well 275 | |
| Yellow sandy clay 1 | 6 | Gentle slope, Martha Day tract, | 3을 miles |
| Stiff gray clay 2 | 8 | northeast of Fairfield. | ~ |
| Yellow sandy clay | 9 | Yellow surface sand 1 | 1 |
| Gray and yellow sand 5 | 14 | Stiff red and yellow clay 2 | 3 |
| Gray sand 6 | 20 | Red and gray sandy clay 2 Coarse vellow sand 2 | 5 |
| Yellow silty sand 3 | 23 | Coarse yellow sand 2 | 7 |
| Gray silty sand 1 | 24 | Fine gray clay and sand 6 | ₀ 13 |
| Yellow silty sand 1 | 25 | Yellow sandy clay | 14 |
| Blue and gray soapstone 3 | 28 | Gray silty sand 8 | 22 |
| Stone coal 1 | 29 | Yellow sandy clay | 23 |
| Struck water at 25 feet. | | Gray silty sand 6 | , 29 |
| Water sample collected. April 13 | . 1936 | Yellow sand 2 | 31 |
| | | No water sample collected. Apr. | 13, 1936 |
| Well 263 | | | |
| Gentle slope, T. R. Donaldson tre | act near | Well 281 | |
| Wildcat road, 62 miles north of 1 | Fairfield | Hilltop, J. L. Shanks tract, nor | |
| Brown surface sand 1 | , 1 | corner of H. Sheppard Survey, 3 | miles |
| Coarse yellow sand 2 | 3 | north of Fairfield. | _ |
| Yellow sandy clay 1 | i 1 | White surface sand | 1 |
| Red and yellow sandy clay 1 | 5 | Stiff yellow clay 3 | 4 |
| Red and white sandy clay 2 | 7 | Coarse brown yellow sand 2 | 6 |
| Yellow and white sand 2 | 9 | Gray and yellow sand 4 | |
| Yellow sand | 10 | Gray sand 3 | |
| Gray sand 16 Quicksand | 26 26 | Brown and gray sand 2 Gray and yellow soapstone 4 | |
| Struck water at 20 feet. | 20 | Gray and yellow soapstone 4 Gray soapstone 5 | 24 |
| Water sample collected. Apr. 23 | . 1936. | Blue soapstone 2 | 26 |
| | | Black soapstone 2 | |
| Well 265 | | Black packed sand | 29 |
| Hillside, Wallace McGuire tract | | Struck water seep at 25 feet. | |
| Young road, $5\frac{1}{2}$ miles northeast o | f Fair- | To water sample collected, Apr. | 13, 1936 |
| field. | | W 77 900 | |
| Coarse yellow sand 6 White quicksand 4 | 10 | Well 283 Gentle slope, R. N. Cannon trac | t near |
| Quicksand | 10 | Highway 75, 34 miles north of F | airfield. |
| Struck water at 6 feet. | 1 | Stiff red clay | į. |
| No water semple collected. Apr. | 23, 1936. | Stiff yellow clay 2 Coarse yellow sand 3 | 36 |
| Well 272 | | Coarse brown sand | 7 |
| Hillside, E. J. Folk tract near | Young | Gray and yellow sand 3 | |
| road, 4 miles northeast of Fairf | | Gray sand and soapstone 4 | |
| Yellow surface sand 1 | : 1 | Gray soapstone 3 | |
| Yellow sandy clay 2 | 3 | Yellow sand | 18 |
| Gray and red sand 4 | 7 | Gray scaps tone and yellow | 10 |
| Red sand 1 Gray and yellow sand 1 | 8 9 | send l White sand l | 19 20 |
| Gray and red sand 1 | 10 | Yellow sand 2 | 22 |
| Gray sand 2 | 12 | White sand 3 | |
| Sandy clay 2 | 14 | Yellow sand | 26 |
| Grey sandy clay 2 | 16 | Gray sandy clay 2 | 28 |
| Yellow sand 6 | 22 | Gray sand 3 | 31 |
| Gray sandy soapstone 3 | 25 | Struck water at 28.5 feet. | |
| Gray sandy clay | 26 | Water level, 26.7 feet below to | |
| Struck water at 25 feet. | | ground, 4 hours after hole comp | |
| Water sample collected. Apr. 23, | 1936. | Water sample collected. Apr. 3, | 1936. |

| Th | ickness De | epth | Thickness | Depth |
|----------------------------|------------------------|-------------|--|----------|
| | | reet) | (feet) | (feet) |
| Well 290 | | | W-13 207 Couting 3 | ! |
| Creek bottoms, J. W. Brown | tract ne | 2 14 | Well 297Continued Yellow silty sand 7 | 26 |
| Highway 75, 12 miles north | west of | , | Orange sand | 29 |
| Fairfield. | Mean or | | Struck water at 25 feet. | 1 20 |
| Stiff yellow clay | 3 | 7 | | ₽. |
| Gray and yellow sandy clay | | 3 6 | Water level, 24.5 feet below top of ground, $\frac{1}{4}$ hour after hole complete | |
| Brown silty sand | 1 , | | | |
| Gray soapstone | 3 | 7 10 | Water sample collected. Mar. 19, 1 | 900. |
| | 2 | | 187 | |
| Gray sandy clay | 8 | 12 | Well 301 | 00 |
| Gray silty sand | 5 | 20 | Gentle slope, Lofton Boyd tract, 1 | |
| Gray sand Iron ore rock | 5 | 25 25 | yards south of highway, 3-3/4 mile. | S |
| Struck water at 20 feet. | T Accessor | 20 | southwest of Fairfield. | |
| | | ! | Yellow sand 4 | 4 |
| Water level, 17.6 feet bel | _ | | Yellow sandy clay | 5 |
| ground, 6 hours after hole | - | | Gray and red sandy clay 2 | 7 |
| Water sample collected. A | pr. 3, 193 | 36. | Gray and yellow sandy clay 3 | 10 |
| tot 45 Co. | | 1 | Gray and yellow sand | 11 |
| Well 294 | , , , | ., | Gray and yellow sandy clay 5 | 16 |
| Creek bottoms, F. E. Hill | tract, Z r | nlies; | | 17 |
| northwest of Fairfield. | | . 1 | Gray and yellow sandy clay 4 | 21 |
| Brown surface sand | 4 | 4 | Yellow sandy clay 3 | 24 |
| Coarse yellow sand | 2 ; | 6 | Gray and yellow clay 4 | 28 |
| Brown sandy clay | 1 ; | 7 | Red and yellow sandstone 1 | 29 |
| Brown sand | 1 , | 8 | Struck seep water at 10 feet. | |
| Yellow silty sand | 5 | 13 | Struck water at 17 feet. | |
| Dark yellow silty sand | 1 , | 14 | Water level, 11.5 feet below top of | f |
| Yellow silty sand | 10 | 24 | ground, 3 hours after hole complet | ed. |
| Dark yellow silty sand | 1 ; | 25 ⊹ | Water sample collected. Feb. 1, 1 | 936 |
| Yellow silty sand | 4. | 29 | | , |
| Struck water at 17 feet. | | | Well 303 | |
| Water level, 16.3 feet bel | | | Gentle slope, Bill Nolan tract nea | r |
| ground, hour after hole | | | Highway 7, 2 miles southwest of Fa | irfield |
| Water sample collected. M | er. 19, 19 | 936. | Yellow surface sand 3 | , 3 |
| | | 1 | Red and yellow sandy clay 3 | 6 |
| Well 295 | _ | ŀ | Red and yellow sand | 7 |
| Hillside, N. W. Davis trac | t, $3\frac{1}{2}$ mile | es | Gray and yellow sand 2 | 9 |
| west of Fairfield. | | | Red and gray sand and clay 7 | 16 |
| Brown surface sand | 1 | 1 | Stiff gray and yellow sand | |
| Yellow sand | 2 | 3 | and clay 4 | 20 |
| Red and gray sandy clay | 3 | 6 | Stiff gray clay 2 | 22 |
| Orange sandy clay | 1 | 7 | Struck water at 8 feet. | <u> </u> |
| Orange sand | 1 | 8 ! | Water level, 4.9 feet below top of | , |
| Yellow packed sand | 5 | 13 | ground, 100 hours after hole compl | |
| White sand | 16 | 29 | No water sample collected. Mar. 26 | |
| No water sample collected. | Mar. 19. | | | |
| | | | Well 308 | |
| Well 297 | | į I | Gentle slope, W. E. Jones tract, 2 | · mile |
| Hillside, Moses Johns trac | t. 3-3/4 r | niles | west of Fairfield. | - |
| west of Fairfield. | , , | 1 | Brown surface sand 2 | 2 |
| Brown surface sand | 1 | 1 ; | Red and yellow sandy clay 2 | 4 |
| Red sandy clay | 2 | 3 | Stiff red and yellow clay | 5 |
| Coarse brown clay | ĩ | 4 | Yellow sandy clay 1 | 6 |
| Yellow silty sand | 2 | 6 | Yellow clay and gray sand 4 | 10 |
| Brown silty sand | 2 | 8 | Brown sand 2 | 12 |
| White silty sand | 3 | 11 | Gray sand and soapstone 2 | 14 |
| Gray silty sand | 8 | 19 | Gray and yellow sand | 15 |
| aral prince | 0 . | 10 | | 10 |
| | | | (Continued on next page) | |

| Thickness (feet) | Depth (feet) | Thicknes (feet) | |
|--|-----------------|---|----------------|
| Well 308Continued | | Well 323 | |
| Gray sand and soapstone 1 | 16 | Hilltop, Keeney and Hall tract, | south- |
| Gray and yellow sand 2 | 18 | west corner of Juan N. Acosta Su | |
| Gray and purple sand 1 | 19 | 4 miles northeast of Fairfield. | ı vey, |
| | | i | 3 |
| | 22 | Yellow surface sand 3 | |
| Yellow silty sand 1 | 23 | Yellow sandy clay | 4 |
| Brown silty sande 1 . | 24 | Red and white sandy clay 4 | |
| Gray sand and soapstone 1 | 25 | Yellow and white sandy clay 1 | |
| Yellow sand 2 | 27 | White sandy clay 2 | |
| Gray sand 4 | 31 | Yellow sandy clay | |
| Gray silty sand | 32 , | Gray sandy clay 4 | 16 |
| Gray and yellow sand 1 | 33 | Gray sand 1 | ; 17 |
| Struck water at 33 feet. | f | Purple and gray sand 1 | 18 |
| Water level, 32.1 feet below top b | of ' | Yellow sandy clay 3 | i i |
| ground, 96 hours after hole comple | | Yellow sandy soapstone | 22 |
| Water sample collected, Mar. 26, 1 | | Gray silty sand 2 | 24 |
| mater bample collected, mar. 20, 1 | , 200. | aray been some | |
| יים רו _י גווו און די די די די די די די די די די די די די | | No water sample collected. May 1 | , 1300 |
| Well 313 | í | 707 33 700 | |
| Gentle slope, W. L. Moody tract, r | | Well 326 | |
| northeast corner of Reunion Ground | | Hillside, McDonald and Huckaby t | |
| Highway 7, $l_4^{\frac{1}{4}}$ miles east of Fairfi | .eld. | north line of M. R. Palacios Sur | vey, |
| Yellow surface sand 1 . | 1 | 5 miles northeast of Fairfield. | |
| Yellow sandy clay | 2 | Brown sandy clay | 1 |
| Stiff yellow clay 1 | 3 ; | Stiff brown clay 2 | 3 |
| Gray and yellow sandy clay 2 | 5 | Brown sandy clay 2 | |
| Gray sandy clay 1 | 6 | Brown and yellow sandy clay 3 | |
| Gray and yellow sandy clay 1 | 7 | Gray and yellow sand 3 | • |
| Rock | 7 : | Gray and yellow said | 1 |
| 1 | 7026 | , | 1 |
| No water sample collected. Apr. 7, | 1930. | Gray sandy clay | í |
| W 15 mag | | Yellow sand | 1 |
| Well 320 | | Gray packed sand 2 | - - |
| Creek bottoms, J. M. Robinson trac | et, 1층 | No water sample collected. May 1 | <u>, 1936.</u> |
| miles northeast of Fairfield. | 1 | 1 | |
| Brown surface sand 1 | 1 | Well 407 | |
| Stiff red s andy clay 2 | 3 | Gentle slope, C. H. and E. M. Wa | tson |
| Stiff yellow clay 2 | 5 | tract, near Wildcat road in Tehu | |
| Gray and yellow sandy clay 1 | 6 | creek bottoms. 5 miles north of | |
| Gray silty send 13 | 19 | Brown silty send | |
| Gray sand 3 | 22 | 1 | 1 |
| 1 | 24 , | | 4 |
| • | | , , | i |
| White sand 3 | 27 | WILL OO BOILD | ! |
| Yellow sand | 28 | Yellow sand | |
| Gray sand and soapstone 1 | 29 | White sand | |
| No water sample collected. Apr. 7. | 1936. | Yellow sand 2 Stiff gray clay | |
| Well 321 | ı | Stiff gray clay Struck water at 19 feet. | . ω± |
| Gentle slope, Will Giles Estate ne | aer | Water sample collected. Apr. 24, | 1936 |
| Young road, $2\frac{1}{2}$ miles northeast of | | Bumple oblico odd. mpr. 24, | £000• |
| Fairfield. | , | Well 410 | |
| Brown surface sand 1 | 1 | Flat, Mack Cockrell tract near W | ildeet |
| | 4 | road, 4 miles northwest of Young | |
| Stiff black clay 3 Stiff gray clay 1 Gray and yellow sand 4 Gray and yellow silty sand 3 Yellow silty sand 8 | 5 | Yellow surface sand 1 | |
| Gray and yellow sand 4 | 9 † | Stiff red and brown clay | 12457 |
| Gray and yellow silty sand 3 | 12 | Stiff gray and yellow clay 2 | 4 |
| | 20 | Brown sandy clay | 5 |
| Gray silty sand 5 Gray and yellow sandy clay 4 | 25 | Yellow sand | 8 |
| Gray and yellow sandy clay 4 Struck water at 20 feet. | 29 | Yellow sandy clay | 16 |
| Water sample collected. Apr. 23, 1 | 936 | Fine yellow sand (Continued on next page) | |
| | | footintings of figure bake) | : |

| Logs of W. P. | A. tes | t wells i | n Freestone CountyContinued | | |
|---|----------|------------|--|----------|----------|
| | | Depth | | | Depth |
| | feet) | (feet) | (: | feet) | (feet) |
| Well 410Continue | eđ | | Well 422 | | |
| Brown sand, fine | ı | 17 | Gentle slope, F. E. Hill trad | t near | r |
| Fine yellow sand | 18 | 35 | Turlington road, 3/4 mile so | | |
| No water sample collected. | Apr. 2 | 4, 1936. | Young. | | |
| | | | Stiff red clay | 3 | 3 |
| Well 411 | | Į Į | Yellow sandy clay | 1 | 4 |
| Gentle slope, Marvin Watson | tract | near | Gray and yellow sand | 2 | 6 |
| Wildcat road, $3\frac{1}{4}$ miles north | hwest | of | Gray soapstone | 1 ' | 7 |
| Young. | _ | _ 1 | Yellow sandy clay | 1 , | 8 |
| Red sandy clay | 1 | 1 | Yellow sand | 9 | 17 18 |
| Stiff yellow clay Yellow sandy clay | 4 3 | 5 8 | Orange sand Yellow clay and sand | 2 1 | 20 |
| Yellow packed sand | 10 | 18 | Gray sand and soapstone | 1 . | 21 |
| Hard packed sand | | 18 | Yellow sand | 1 | 22 |
| No water sample collected. | Apr. 2 | 4, 1936. | Orange packed sand | 1 | 23 |
| Well 412 | | 1 | Yellow packed sand | 2 1 | 25 26 |
| Hillside, W. T. Cole tract, | 21 | l loc l | Gray sandy soapstone Yellow sand | 1 | 27 |
| northwest of Young. | rS III T | res | · Yellow sandy clay | 1 | 28 |
| Red sandy clay | 3 | 3 | Gray sandy soapstone | i | 29 |
| Yellow silty sand | 6 | 9 | Hard soapstone | _ | 29 |
| Gray silty sand | 1 2 | 10 | No water sample collected. M | ay 19, | 1936 |
| Gray silty sand | | 12 | | | |
| Yellow sandy clay | 2 | 14 | Well 423 | | |
| Blue shale | . 1 | 15 | Gentle slope, Brady Gunter to | ract n | ear |
| No water sample collected. | Apr. 2 | 4, 1936 | Fairfield road, 1-3/4 miles | southw | est |
| 187 - 3 3 A 3 E | | 1 | of Young. Coarse yellow | 6 | 6 |
| Well 415 | + | 7 1 | Red and yellow sand | 1 : | 7 |
| Gentle slope, H. P. Shields miles northwest of Young. | Grace | , 14 | Gray sand | 3 | 10 |
| Coarse blue sand | 1 | 1 | Red and yellow sand | 3 2 | 12 |
| Stiff brown clay | 2 | 3 | Gray sand | 5 | 17 |
| Stiff gray eley | 2 1 | 5 | Gray and yellow sand | 3 | 20 |
| Yellow sandy clay | 5 | 6 8 | Gray sand Yellow sand | 1 5 | 21 26 |
| Gray sandy clay Yellow sandy clay | î | 9 | Gray and yellow sand | 1 | 27 |
| Gray and yellow sandy clay | 2 | 11 | Yellow sand | 5 | 32 |
| Stiff gray clay | 3 | 14 | Struck water at 17 feet. | | |
| Yellow clay | 1 | 15 | Water sample collected. Apr. | 23, 1 | 936. |
| Gray and black silty sand | 1 | 16 | , | | |
| Black lignite | 1 | 17 | Well 427 | | |
| Stiff gray clay | 2 | 19 | Gentle slope, W. C. Gunter t | | |
| Blue soapstone | 1 | 20 | Cook's Ferry road, 1-3/4 mil | es sou | th of |
| Yellow sand | . 1 | 21 | Young. | | 7 |
| No water sample collected. | Apr. 2 | 4, 1936 | Yellow surface sand | 1 ! | i |
| 77. 33. 400 | | 1 | Yellow sandy clay | 2 | 3 6 |
| Well 420 | | | Stiff red and yellow clay | 3 1 ' | 7 |
| Flat, Boyd Henderson tract | | | | 3 | 10 |
| road, 1/4 mile southwest of | | 2 | Brown and yellow sandy clay | 1 | 11 |
| Yellow surface sand | 2 | 1 | Gray sandy sospstone | _ 1 | 13 |
| Red and yellow sandy clay | 1 | 3 : | Coarse brown and yellow sand | 4 | 17 |
| Stiff yellow clay | 1 3 | 4 9 | Gray sandy soapstone Brown sandy clay | 4 | 21 |
| Coarse gray and brown sand | ა 5 | 14 | Gray sandy soapstone | 1 | 22 |
| Yellow sand | 6 | 20 | Brown sandy clay | 2 | 24 |
| Thite sand | 2 | 22 | Gray sandy scaps tone | 2 | 26 |
| Gray and yellow sandy clay | 6 | 28 | Yellow sand | 2 | 28 |
| White sand Red and white sand | 3 | 20 31 | Brown sandy clay | 1 | 29 |
| No water sample collected. | - | | (Continued on next pa | `- | |
| na water Bampre corrected | | J. 2000 | /- orrestings or right ba | 5 7 | |

| Logs of W. P. | A. test | wells in | r Freestone CountyContinue | à | |
|---|------------------|----------|--|-------------------|--------|
| TI | ickness | | | ickness | |
| | (feet) | (feet) | | (feet) | (feet) |
| Well 427Contir | nued | \$ • | Well 431Conti | nued | 1 |
| Yellow sand | 1 | 30 | Gray sand | 1 | 20 |
| Gray sand | 2 | 32 | Gray sandy clay | 4 | 24 |
| Yellow sand | 1 | 33 | Yellow sandy clay | 2 | 26 |
| Brown sand | 1 | 1 | Yellow sand | 2 | 28 |
| Yellow sand | 1 | 35 , | Plue sand | 2 | 30 |
| Gray soapstone | 1 | 36 | Struck water at 14 feet. | | |
| No water sample collected. | May 19, | 1936. | Water sample collected. Ma | ay 1, 19 | 936. |
| Well 428 | | , i | Well 432 | 3 | |
| Gentle slope, H. Bullock tr | | | Hilltop, F. E. Hill tract, | 3克 mile | 8 |
| Cook's Ferry road, lঠ miles | southe | ast of | southeast of Young. | | 1 |
| Young. | | 1 | Stiff brown clay | 4 | 4 |
| Stiff yellow clay | 1 | 1 | Stiff yellow sandy clay | 2 | ; 6 |
| Stiff gray clay | 2 | 3 | Yellow sandy clay | 2 | 8 |
| Gray sandy clay | 3 | , 6 ii | Yellow sand | 1 | 9 |
| Gray and yellow sandy clay | 8 | 14 | Brown sand | 2 | 11 |
| Yellow sand | 2 | 16 | ™hite sand | 1 | 12 |
| Gray and yellow sandy clay | 2 | 18 | Brown sand | 1 | 13 |
| Yellow sand | 12 | 30 | Yellow sand | 10 | 23 |
| No water sample collected. | May 1, | 1936. | Gray sand | 2 | 25 |
| | | | Yellow sand | 2 | 27 |
| Well 429 | | | No water sample collected. | May 1, | 1936 |
| Flat, F. E. Hill tract near | · Cook's | Ferry | | | |
| road, 3 miles east of Young | | 1 | Well 423 | | |
| Brown surface sand | 2 | 2 | Creek bottoms, F. E. Hill | tract n | ear |
| Coarse brown sand | 2 | 4 | Pine Bluff road, $4\frac{1}{4}$ miles | southea | st of |
| Yellow sand, water | 2 | 6 | Young. | | |
| Red gray sandy clay | 2 | 8 | Brown clay and sand | 10 | . 10 |
| Yellow sandy clay | 11 | 19 | Brown yellow clay and sand | 2 | 12 |
| Yellow sand | 1 | 20 | Yellow clay and sand | 5 | 17 |
| Yellow sandy clay | 2 | 22 | Brown sand | 2 | 19 |
| Yellow sand | 3 | 25 | Orange sand | 1 | 20 |
| Struck water at 5 feet. | | | Purple sand | 1 | 21 |
| Water sample collected. Mag | y 19, 19 | 36. | Yellow sand | 3 | 24 |
| *************************************** | | | Brown clay and sand | 1 | 25 |
| Well 430 | | | Yellow sand | 2 | 27 |
| Hillside, F. E. Hill tract | near Tu | rling- 🕌 | Yellow clay and sand | 1 | 28 |
| ton road, 3 miles southeas | | | Yellow sand | 2 | 30 |
| Yellow sandy clay | 2 | 2 | Yellow clay and sand | 1 | 31 |
| Stiff red clay | 1 | 3 | Gray sand | 3 | 34 |
| Red sandy clay | 2 | 5 | Gray and yellow sandy clay | | 35 |
| Salmon colored sandy clay | 1 | 6 | Gray sandy clay | ī | 36 |
| Yellow sand | 11 | 17 | Gray sand | ī | 37 |
| Yellow packed sand | î | 18 | Struck water at 33 feet. | - | 3, |
| Iron ore rock | _ | 18 | Water sample collected. M | av 19 | 1936- |
| No water sample collected. | May 1, | 1 11 | dor dampio dollod dod. m | <i>y</i> <u>*</u> | |
| | | | Well 434 | , – | |
| Well 431 | , . | - | Hilltop, P. D. C. Ball tra | ct on P | ıne |
| Creek bottoms, J. M. Miller | | | Bluff road, $5\frac{1}{2}$ miles south | east of | |
| N. Accsta Survey, 3-3/4 mil | le s sout | h of | Young. | . | |
| Young. | | | Coarse yellow sand | 10 | 10 |
| Yellow sand | 1 | 1 | Yellow quicksand | 2 | 12 |
| Yellow sandy clay | 1 | 2 | Quicksand | | 12 |
| Gray and red sandy clay | 8 | 10 , | Struck water at 10 feet. | | İ |
| Gray sandy clay | 7 | 17 | Ma water semple palleated | Morr 10 | 1936 |
| Yellow sandy clay | 2 | 19 | No water sample collected. | may 10 | 1000 |

| Well 455 Billside, T. E. Fichardson tract near Blount School, 4¢ miles southeast of Young. Brown surface send 1 1 1 Coarse yellow sand 4 11 STOWN surface send 1 2 Yellow send end clay 1 3 Salmon colored send 1 16 White and yellow send 4 16 Store yellow sand 1 16 White and yellow send 1 16 White and yellow send and 1 17 White sand yellow send and 1 18 White and yellow send white send 1 18 White and yellow send white send 1 18 White and yellow send white send 1 18 White and yellow send 4 18 Struck water at 6 feet. Well 458 Hillside, F. E. Hill tract near Turling-ton road, 9 miles south of Young. Yellow surface send 2 2 2 Yellow sund 1 1 16 White and yellow send 4 1 16 White and yellow send 4 18 White and yellow send 4 18 White and yellow send 4 18 Yellow send 4 1 | Thickness Depth (feet) (feet) | Thickness Depth (feet) (feet) |
|--|--|--|
| Hillside, T. H. Fichardson tract near Blount School, 42 miles southeast of Young. From Surface send 1 1 1 Coarse gray and yellow send 4 11 South School and 1 2 Yellow send and 1 2 Yellow send and 1 2 Yellow send and 1 2 Yellow send and 1 1 2 Yellow send and 1 1 2 Yellow send and 1 1 2 Yellow send and 1 1 16 White and yellow send and 1 16 White and yellow send and 1 16 White send yellow send and 1 18 White send yellow send and 1 18 White send yellow send and 1 18 White send yellow send and 1 18 White send yellow send and 1 18 White send yellow send and 1 18 White send yellow send and 1 18 White send yellow send and 1 18 White send yellow send and 1 18 White send yellow send and 1 18 Yellow surface send 3 3 8 Red psoked send 1 14 Iron one reach 1 14 Iron one reach 1 14 Iron one reach 1 14 Iron one reach 1 14 Iron one reach 1 14 Iron one reach 1 14 Iron one reach 1 14 Iron one reach 1 16 White send yellow send 1 1 16 White send yellow send the send 1 14 Iron one reach 1 14 Iron one reach 1 14 Iron one reach 1 14 Iron one reach 1 14 Iron one reach 1 14 Iron one reach 1 14 Iron one reach 1 16 White send yellow send 1 1 16 White send yellow send 1 1 16 White send yellow send to 1 14 Iron one reach 1 14 Iron one reach 1 14 Iron one reach 1 14 Iron one reach 1 14 Iron one reach 1 14 Iron one reach 1 16 White send yellow send 1 1 16 White send yellow send 1 1 16 White send yellow send 1 1 16 White send yellow send 1 1 16 White send yellow send 1 1 16 White send yellow send 1 1 16 White send yellow send 1 1 16 White send yellow send 1 1 16 White send yellow send 1 1 16 White send yellow send 1 1 16 White send yellow send 1 1 16 White send yellow send 1 1 16 Iron one reach 1 16 White send yellow send 1 1 16 Iron one reach 1 16 White send yellow send 1 1 11 Iron send yellow send 1 1 11 Iron send yellow send 1 1 11 Iron send yellow send 1 1 11 Iron send yellow send 1 1 11 Iron send yellow send 1 1 | (reec) (reec) | (leet) (leet) |
| Hillside, T. H. Fichardson tract near Blount School, 42 miles southeast of Young. From Surface send 1 1 1 Coarse gray and yellow send 4 11 South School and 1 2 Yellow send and 1 2 Yellow send and 1 2 Yellow send and 1 2 Yellow send and 1 1 2 Yellow send and 1 1 2 Yellow send and 1 1 2 Yellow send and 1 1 16 White and yellow send and 1 16 White and yellow send and 1 16 White send yellow send and 1 18 White send yellow send and 1 18 White send yellow send and 1 18 White send yellow send and 1 18 White send yellow send and 1 18 White send yellow send and 1 18 White send yellow send and 1 18 White send yellow send and 1 18 White send yellow send and 1 18 White send yellow send and 1 18 Yellow surface send 3 3 8 Red psoked send 1 14 Iron one reach 1 14 Iron one reach 1 14 Iron one reach 1 14 Iron one reach 1 14 Iron one reach 1 14 Iron one reach 1 14 Iron one reach 1 14 Iron one reach 1 16 White send yellow send 1 1 16 White send yellow send the send 1 14 Iron one reach 1 14 Iron one reach 1 14 Iron one reach 1 14 Iron one reach 1 14 Iron one reach 1 14 Iron one reach 1 14 Iron one reach 1 16 White send yellow send 1 1 16 White send yellow send 1 1 16 White send yellow send to 1 14 Iron one reach 1 14 Iron one reach 1 14 Iron one reach 1 14 Iron one reach 1 14 Iron one reach 1 14 Iron one reach 1 16 White send yellow send 1 1 16 White send yellow send 1 1 16 White send yellow send 1 1 16 White send yellow send 1 1 16 White send yellow send 1 1 16 White send yellow send 1 1 16 White send yellow send 1 1 16 White send yellow send 1 1 16 White send yellow send 1 1 16 White send yellow send 1 1 16 White send yellow send 1 1 16 White send yellow send 1 1 16 Iron one reach 1 16 White send yellow send 1 1 16 Iron one reach 1 16 White send yellow send 1 1 11 Iron send yellow send 1 1 11 Iron send yellow send 1 1 11 Iron send yellow send 1 1 11 Iron send yellow send 1 1 11 Iron send yellow send 1 1 | Well 435 | Well 501Continued |
| Blount School, 4c miles southeest of Young, Sunon colored sand 4 11 | | |
| Young. Salmon colored send 4 15 15 15 15 15 15 15 | Blount School, $4\frac{1}{6}$ miles southeast of | 1 |
| Brown surface send 1 | Young. | |
| Brown clay and sand | Brown surface sand 1 1 | Coarse gray and yellow sand 4 15 |
| Stiff yellow clay | | |
| Crey silty sand 5 | | White and yellow sand and |
| Yellow silty sand 5 16 No water sample collected. Apr. 27, 1936 | The state of the s | |
| No water sample collected, Apr. 27, 1936. Clay 2 20 | we will all the second of the | 1 |
| Well 458 | | White and yellow sand and |
| Well 438 | No water sample collected. Apr. 27, 1936. | • |
| Blue sendy clay 9 32 | | |
| Young-Turlington road, 4½ miles south of Young. Yellow surface sand 3 3 Red packed sand 10 13 Red and yellow packed sand 1 14 Iron ore rock 14 No water sample collected. Apr. 27, 1936. Well 439 Hillside, F. E. Hill tract near Turlington road, 5½ miles south of Young. Yellow surface sand 2 2 2 Yellow sandy clay 3 5 5 Red sand yellow sandy clay 4 10 Red and yellow sandy clay 1 11 Brown sandy clay 2 13 Iron ore rock 15 Iron ore rock 15 Iron ore rock 15 Iron ore rock 16 Iron ore rock 17 Iron ore rock 17 Iron ore rock 18 Iron ore rock 18 Iron ore rock 18 Iron ore rock 19 Iron ore gravel 19 Iron ore gravel | | • |
| Water sample collected, May 12, 1936. | Variation F. E. Hill tract near new | |
| Yellow surface sand 10 13 13 14 1502 14 1502 15 15 15 15 15 15 15 1 | | 1 |
| Red packed sand 10 | 77 77 | water sample collected. May 12, 1936. |
| Red and yellow packed sand 14 | | IV-33 EOO |
| Tron ore rock 14 Bluff road, 9 miles northwest of Butler. No water sample collected. Apr. 27, 1936. Coarse yellow sand 1 11 11 11 11 11 12 12 | | |
| No water sample collected. Apr. 27, 1936 | | |
| Well 439 | | Charge wellow cand |
| Well 459 Hillside, F. E. Hill tract near Turlington road, 5½ miles south of Young. Yellow surface sand 2 2 Yellow sandy clay 3 5 Red and yellow sandy clay 1 6 Red and yellow sendy clay 1 11 Brown sandy clay 2 13 Iron ore rook 13 Struck water seep at 13 feet. No water sample collected. Apr. 27, 1936 Gentle slope, F. E. Hill tract near Young road, 9 miles northwest of Butler. Yellow sand 2 2 2 Yellow sand 2 2 2 Yellow sandy clay 1 1 1 Yellow clay and sand 3 24 Coarse yellow and white sand 6 30 Caving 4 1 1 Carse yellow and white sand 6 30 Caving 30 Caving 30 Caving 30 Caving 30 Caving 30 Caving 30 Caving 4 1 Carse yellow sand 3 24 Carse yellow sand 1 16 Carse yellow sand 1 16 Carse yellow sand 1 16 Carse yellow sand 1 16 Carse yellow sand 1 16 Carse yellow sand 1 16 Carse yellow sand 1 16 Carse yellow sand 1 16 Carse yellow sand 1 16 Carse yellow sand 1 15 Carse yellow sand 1 16 Carse yellow sand 1 16 Carse yellow sand 1 16 Carse yellow sand 1 16 Carse yellow sand 1 16 Carse yellow sand 1 16 Carse yellow sand 1 16 Carse yellow sand 1 16 Carse yellow sand 1 16 Carse yellow sand 1 16 Carse yellow sand 1 16 Carse yellow sand 1 16 Carse yellow sand 1 16 Carse yellow sand 1 | The state of the s | |
| Hillside, F. E. Hill tract near Turlington road, 5½ miles south of Young. Yellow surface sand 2 2 Yellow surface sand 2 2 Yellow sandy clay 3 5 Red end yellow sandy clay 1 6 Red andy ellay 4 10 Red and yellow sendy clay 1 11 Brown sandy clay 2 13 Tron ore rock 13 Tron ore rock 13 Tron ore rock 13 Tron ore rock 13 Tron ore rock 13 Tron water sample collected. Apr. 27, 1936 Gentle slope, F. E. Hill tract near Young road, 9 miles northwest of Butler. Yellow sand 2 2 Red and yellow sendy clay 1 4 Yellow sand 2 2 Tron ore gravel 1 7 Yellow sand 2 1 4 Yellow sandy clay 1 4 Yellow sandy clay 1 4 Yellow sandy clay 2 6 Red sand and clay 1 7 Bray and brown sandy clay 1 8 Gray and yellow sendy clay 1 12 Yellow packed sand 2 14 No water sample collected. Apr. 27, 1936 White clay and sand 4 21 Coarse yellow and white sand 1 21 Coarse yellow and white sand 6 20 Quicksand 30 Ceving 30 Struck water at 25 feet. Water sample collected. May 12, 1936. Hillside, P. D. G. Ball tract near Fine Bluff road, 9 miles northwest of Butler. Yellow sandy clay 1 3 Coarse yellow sand 1 7 Red gravel and sand 4 11 Coarse yellow sand 1 12 Iron ore gravel 1 12 No water sample collected. May 12, 1936 Hillside, P. D. G. Ball tract near Pine Bluff road, 8 miles northwest of Butler. Coarse yellow sand 6 6 Red gravel and sand 2 8 Red gravel and sand 2 8 Red gravel and sand 2 8 Red gravel and sand 6 6 Red gravel and sand 6 6 Red gravel and sand 6 6 Red gravel and sand 9 2 8 Red gravel and sand 9 1 12 Red gravel and sand 9 1 12 Red gravel a | Well 439 | · · |
| ton road, $5\frac{1}{2}$ miles south of Young. Yellow surface sand 2 2 2 Coarse white sand 3 24 Yellow sandy clay 3 5 Coarse yellow and white sand 3 24 Yellow sandy clay 1 6 Coarse yellow and white sand 3 24 Coarse yellow and white sand 6 30 Red sandy clay 4 10 Red sandy clay 1 11 Struck sandy clay 2 13 Tron ore rock 13 Tron ore rock 13 Tron ore rock 13 Tron ore rock 15 Truck water sample collected. Apr. 27, 1936 Hillside, F. D. C. Ball tract near Fine Buff road, 9 miles northwest of Butler. Yellow sand 2 2 Red and yellow clay and sand 3 6 Coarse yellow sand 1 7 Red gravel and sand 4 11 Yellow sendy clay 1 4 Tron ore gravel 1 12 Tron o | | |
| Yellow surface sand 2 | ton road. 52 miles south of Young. | • |
| Yellow sandy clay 3 5 Coarse yellow and white sand 6 30 Red and yellow sandy clay 4 10 Red and yellow sandy clay 1 11 Brown sandy clay 2 13 From ore rock 13 Struck water seep at 13 feet. No water sample collected. Apr. 27, 1936 Water sample collected. May 12, 1936. Well 500 Water sample collected. Apr. 27, 1936 Hillside, P. D. C. Ball tract near Fine Bluff road, 9 miles northwest of Butler. Yellow sand 2 2 Red and yellow clay and sand 3 6 Yellow sandy clay 1 4 Fine ore gravel 12 Frown sandy clay 2 6 Red and yellow clay and sand 4 11 Fine ore gravel 12 Frown sandy clay 1 4 Fine ore gravel 12 Fine ore gravel 13 Fine ore gravel 14 Filltop, P. D. C. Ball tract near Fine Stiff gray and white clay 3 18 Fine ore gravel and sand 2 8 Fine ore gravel and sand 2 8 Fine ore gravel and sand 2 8 Fine ore gravel and sand 3 2 1 Fine ore gravel and sand 3 2 | | • |
| Red and yellow sandy clay | | 1 i |
| Red sandy clay 4 10 Red and yellow sendy clay 1 11 Brown sandy clay 2 13 Struck water at 25 feet. Water sample collected. May 12, 1936. Well 500 Gentle slope, F. E. Hill tract near Young road, 9 miles northwest of Butler. Yellow sand 2 2 Red and yellow clay and sand 3 6 Brown sandy clay 1 4 Yellow sandy clay 2 6 Brown sandy clay 1 4 Yellow sendy clay 2 6 Red sand end clay 1 7 Bray end brown sandy clay 1 8 Gray snd yellow sendy clay 1 12 Stiff gray clay 1 12 Well 501 Water sample collected. May 12, 1936. Well 503 Hillside, F. D. C. Ball tract near Fine Bluff road, 9 miles northwest of Butler. Yellow sandy clay 2 6 Red gravel and sand 4 11 Coarse orange sand 1 12 Iron ore gravel 12 No water sample collected. May 12, 1936 Well 501 Hillside, P. D. C. Ball tract near Pine Bluff road, 8 miles northwest of Butler. Coarse yellow sand 6 6 White packed sand 2 14 No water sample collected. Apr. 27, 1936 Well 501 Hillside, P. D. C. Ball tract near Pine Bluff road, 8 miles northwest of Butler. Coarse yellow sand 6 14 Coarse yellow sand 2 8 Red gravel and sand 2 8 Red gravel and sand 2 8 Red gravel and sand 2 8 Coarse red sand 6 14 Coarse yellow sand 3 21 Stiff gray and white clay 3 18 Coarse yellow sand 3 21 Hillside, P. D. C. Bell tract near Pine Bluff road, 8 miles northwest of Butler. Stiff gray and white clay 3 18 Coarse yellow sand 3 21 Gray and yellow packed sand 4 25 | The state of the s | |
| Brown sandy clay Iron ore rock Struck water seep at 13 feet. No water sample collected. Apr. 27, 1936 Well 500 Gentle slope, F. E. Hill tract near Young road, 9 miles northwest of Butler. Yellow sand 2 2 2 Brown sendy clay Brown sendy clay I 3 3 Red and yellow clay and sand I 7 Red gravel and sand I 10 Gray and yellow sendy clay I 1 4 Bray end brown sandy clay I 1 2 Bray end brown sandy clay I 1 2 Bray end brown sandy clay I 1 2 Well 504 Hillside, P. D. C. Ball tract near Pine Bluff road, 9 miles northwest of Butler. Yellow sandy clay and sand I 7 Red gravel and sand I 1 7 Bray end brown sandy clay I 1 7 Bray end brown sandy clay I 1 12 Well 504 Hillside, P. D. C. Ball tract near Pine Bluff road, 8 miles northwest of Butler. Yellow sandy clay I 1 12 Bluff road, 9 miles northwest of Butler. Vellow sand I 7 No water sample collected. May 12, 1936. Well 500 Coarse yellow sand I 10 Stiff gray and white clay I 10 Coarse yellow sand I 15 Stiff gray and white clay I 10 Coarse yellow sand I 15 Stiff gray and white clay I 1 15 Stiff gray and white clay I 1 15 Stiff gray and white clay I 1 15 Stiff gray and white clay I 1 15 Coarse yellow sand I 15 Stiff gray and white clay I 10 Coarse yellow sand I 15 Stiff gray and white clay I 10 Coarse yellow sand I 15 Stiff gray and white clay I 10 Coarse yellow sand I 15 Stiff gray and white clay I 10 Coarse yellow sand I 10 Coarse yellow sand I 15 Stiff gray and white clay I 10 Coarse yellow sand I 10 Coarse yellow sand I 10 Coarse yellow sand I 10 Coarse yellow sand I 10 Coarse yellow sand I 10 Coarse yellow sand I 10 Coarse yellow sand I 10 Coarse yellow sand I 10 Coarse yellow sand I 10 Coarse yellow sand I 10 Coarse yellow sand I 10 Coarse yellow sand I 10 Coarse yellow sand I 10 Coarse yellow sand I 10 Coarse yellow sand I 10 Coarse yellow sand I 10 Coarse yellow sand I 10 Coarse yellow sand I 1 | Red sandy clay 4 10 | |
| Iron ore rock Struck water seep at 13 feet. No water sample collected. Apr. 27, 1936 Gentle slope, F. E. Hill tract near Young road, 9 miles northwest of Butler. Yellow sand 2 2 Red and yellow clay and sand 3 6 Coarse yellow sand 1 7 Yellow sendy clay 1 4 Iron ore gravel 12 Yellow sandy clay 2 6 No water sample collected. May 12, 1936 Gray and brown sandy clay 1 7 Bray and brown sandy clay 1 8 Gray and yellow sendy clay 3 11 Stiff gray clay 1 12 Hillside, P. D. C. Ball tract near Pine Bluff road, 9 miles northwest of Butler. Yellow sand 2 2 Red and yellow clay and sand 3 6 Coarse yellow sand 4 11 Coarse orange sand 1 12 No water sample collected. May 12, 1936 Hillside, P. D. C. Ball tract near Pine Bluff road, 8 miles northwest of Butler. Yellow sandy clay 1 7 Bray end brown sandy clay 1 8 Gray and yellow sendy clay 3 11 Stiff gray clay 1 12 Hilltop, P. D. C. Ball tract near Pine Stiff gray clay 1 12 Bluff road, 9 miles northwest of Butler. Yellow sand 2 1 12 No water sample collected. May 12, 1936 Coarse yellow sand 6 6 White packed sand 2 14 No water sample collected. Apr. 27, 1936. Well 501 Hillside, P. D. C. Ball tract near Pine Bluff road, 9 miles northwest of Butler. Yellow sand 3 11 To Coarse yellow sand 6 6 Coarse yellow sand 6 12 Coarse yellow sand 1 15 Stiff gray and white clay 3 18 Coarse yellow sand 3 21 Gray and yellow packed sand 4 25 | | Struck water at 25 feet. |
| Struck water seep at 13 feet. No water sample collected. Apr. 27, 1936 Well 500 Gentle slope, F. E. Hill tract near Yellow sand, 9 miles northwest of Butler. Yellow sand, 9 miles northwest of Butler. Yellow sand 2 2 Red and yellow clay and sand 3 6 Coarse yellow sand 1 7 Yellow sendy clay 1 4 Iron ore gravel and sand 4 11 Yellow sendy clay 2 6 No water sample collected. May 12, 1936 Red sand and clay 1 7 Bray and brown sandy clay 1 8 Gray and yellow sendy clay 2 6 No water sample collected. May 12, 1936 Red sand sand clay 1 8 Hilltop, P. D. C. Ball tract near Pine Stiff gray clay 1 12 Bluff road, 8 miles northwest of Butler. Yellow packed sand 2 14 Coarse yellow sand 6 6 Miles northwest of Butler. Yellow packed sand 8 22 Red gravel and sand 2 8 Coarse yellow sand 6 14 Coarse yellow sand 6 14 Coarse yellow sand 6 14 Coarse yellow sand 6 14 Coarse yellow sand 6 14 Coarse yellow sand 7 21 Stiff gray and white clay 3 18 Coarse yellow sand 3 21 Stiff gray and white clay 3 18 Coarse yellow sand 3 21 Hillside, P. D. C. Ball tract near Pine 6 Gray and yellow packed sand 9 21 Red gravel and sand 1 15 Stiff gray and white clay 3 18 Coarse yellow sand 3 21 Red gravel sand 3 21 Red gravel sand 3 21 Red gravel and sand 3 21 Red gravel s | Brown sandy clay 2 13 | Water sample collected. May 12, 1936. |
| Mell 500 Gentle slope, F. E. Hill tract near Yellow sandy clay and sand 3 6 Young road, 9 miles northwest of Butler. Yellow sand 2 2 Red and yellow sand 1 7 Yellow sand 1 3 Coarse yellow sand 1 12 Brown sandy clay 2 6 No water sample collected. May 12, 1936 Gray and brown sandy clay 1 8 Gray and yellow sand 2 14 Hillsop, P. D. C. Ball tract near Pine Stiff gray clay 1 12 Bluff road, 8 miles northwest of Butler. Yellow sand 1 12 Sluff road, 8 miles northwest of Butler. Yellow sandy clay 1 8 Hilltop, P. D. C. Ball tract near Pine Stiff gray clay 1 12 Bluff road, 8 miles northwest of Butler. Yellow packed sand 2 14 Coarse yellow sand 6 6 White packed sand 8 22 Red gravel and sand 2 8 Coarse red sand 6 14 Coarse yellow sand 1 15 Stiff gray and white clay 3 18 Stiff gray and white clay 3 18 Stiff gray and white clay 3 18 Stiff gray and white clay 3 18 Stiff gray and white clay 3 18 Stiff gray and white clay 3 18 Stiff gray and white clay 3 18 Stiff gray and white clay 3 18 Stiff gray and white clay 3 18 Stiff gray and white clay 3 21 Gray and yellow packed sand 4 25 | Iron ore rock | |
| Well 500 Gentle slope, F. E. Hill tract near Young road, 9 miles northwest of Butler. Yellow sand, 9 miles northwest of Butler. Yellow sand Yellow sand 2 2 Red and yellow clay and sand 3 6 Yellow sand Yellow clay end send 1 3 Coarse orange sand 1 12 Brown sandy clay 1 4 Iron ore gravel 12 Yellow sandy clay 2 6 No water sample collected. May 12, 1936 Red sand and clay 1 7 Bray end brown sandy clay 1 8 Gray end yellow sendy clay 3 11 Stiff gray clay 1 12 Yellow packed sand 2 14 White packed sand 8 22 Red gravel and sand 6 6 White packed sand 8 22 Red gravel and sand 6 6 Red gravel and sand 2 8 Well 501 Well 501 Hillside, P. D. C. Bell tract near Pine Gray and white clay 3 18 Gray and white clay 3 18 Gray and yellow packed sand 4 25 | | |
| Gentle slope, F. E. Hill tract near Young road, 9 miles northwest of Butler. Yellow sand 2 2 2 Red gravel and sand 3 6 Coarse yellow sand 4 11 Yellow clay and send 1 3 Coarse orange sand 1 12 Brown sandy clay 1 4 Iron ore gravel 1 2 No water sample collected. May 12, 1936 Red sand and clay 1 7 Bray and brown sandy clay 1 8 Gray and yellow sendy clay 1 1 2 Bluff road, 8 miles northwest of Butler. Yellow packed sand 2 14 Coarse yellow sand 6 6 Red gravel and sand 7 Well 504 Hilltop, P. D. C. Ball tract near Pine Bluff road, 8 miles northwest of Butler. Coarse yellow sand 6 6 Red gravel and sand 7 Well 504 Rilltop, P. D. C. Ball tract near Pine Red and yellow clay and sand 1 7 Red and yellow clay and sand 1 12 No water sample collected. May 12, 1936 Well 501 Red gravel and sand 2 14 Coarse yellow sand 6 6 Red gravel and sand 7 Coarse yellow sand 6 6 Red gravel and sand 7 Coarse yellow sand 8 22 Red gravel and sand 9 Coarse yellow sand | No water sample collected. Apr. 27, 1936 | |
| Gentle slope, F. E. Hill tract near Young road, 9 miles northwest of Butler. Yellow sand 2 2 2 Red gravel and sand 4 11 Yellow clay and sand 5 Coarse yellow sand 7 Red and yellow clay and sand 7 Red gravel and sand 7 Red gravel and sand 7 Red gravel and sand 7 Red gravel and sand 7 Red gravel and sand 7 Red gravel and sand 7 Red gravel and sand 7 Red gravel and sand 7 Red gravel and sand 7 Red gravel and sand 7 Red gravel and sand 7 Red gravel and sand 7 Red gravel and sand 8 Red gravel and sand 9 Red | W. 17. 500 | |
| Young road, 9 miles northwest of Butler. Coarse yellow sand 1 7 Yellow sand 2 2 Red gravel and sand 4 11 Yellow clay and sand 1 3 Coarse orange sand 1 12 Brown sandy clay 1 4 Iron ore gravel 12 Yellow sandy clay 2 6 No water sample collected. May 12, 1936 Red sand and clay 1 7 Bray and brown sandy clay 1 8 Fig. 1504 Gray and yellow sendy clay 3 11 Hilltop, P. D. C. Ball tract near Pine Stiff gray clay 1 12 Bluff road, 8 miles northwest of Butler. Yellow packed sand 2 14 Coarse yellow sand 6 6 White packed sand 8 22 Red gravel and sand 2 8 Hard packed sand 2 Coarse red sand 6 14 No water sample collected. Apr. 27, 1936. Coarse yellow sand 1 15 Stiff gray and white clay 3 18 Coarse yellow sand 3 21 Hillside, P. D. C. Bell tract near Pine Gray and yellow packed sand 4 25 | | |
| Yellow sand 2 2 Red gravel and sand 4 11 Yellow clay and send 1 3 Coarse orange sand 1 12 Brown sandy clay 1 4 Iron ore gravel 12 Yellow sandy clay 2 6 No water sample collected. May 12, 1936 Red sand and clay 1 7 Bray and brown sandy clay 1 8 Vell 504 Gray and yellow sendy clay 3 11 Hilltop, P. D. C. Ball tract near Pine Stiff gray clay 1 12 Bluff road, 8 miles northwest of Butler. Yellow packed sand 2 14 Coarse yellow sand 6 6 White packed sand 8 22 Red gravel and sand 2 8 Hard packed sand 22 Coarse red sand 6 14 No water sample collected. Apr. 27, 1936. Well 501 Hillside, P. D. C. Bell tract near Pine Gray and yellow packed sand 4 25 | | |
| Yellow clay and send 1 3 Coarse orange sand 1 12 Brown sendy clay 1 4 Iron ore gravel 12 Yellow sendy clay 2 6 No water sample collected. May 12, 1936 Red sand and clay 1 7 Bray and brown sandy clay 1 8 7 Gray and yellow sendy clay 3 11 Hilltop, P. D. C. Ball tract near Pine Stiff gray clay 1 12 Bluff road, 8 miles northwest of Butler. Yellow packed sand 2 14 Coarse yellow sand 6 6 White packed sand 8 22 Red gravel and sand 2 8 Hard packed sand 2 Red gravel and sand 6 14 No water sample collected. Apr. 27, 1936. Well 501 Hillside, P. D. C. Bell tract near Pine Gray and yellow packed sand 4 25 | 77 7 7 | |
| Brown sandy clay Yellow sandy clay Red sand and clay Bray and brown sandy clay Gray and yellow sandy clay I 1 2 8 8 8 8 11 8 8 8 8 11 8 8 8 8 8 8 8 | | |
| Yellow sandy clay 2 6 No water sample collected. May 12, 1936 Red sand and clay 1 7 Bray and brown sandy clay 1 8 | | and the contract of the contra |
| Red sand and clay 1 7 Bray and brown sandy clay 1 8 Gray and yellow sandy clay 3 11 Hilltop, P. D. C. Ball tract near Pine Stiff gray clay 1 12 Bluff road, 8 miles northwest of Butler. Yellow packed sand 2 14 Coarse yellow sand 6 6 White packed sand 8 22 Red gravel and sand 2 8 Hard packed sand 22 Coarse red sand 6 14 No water sample collected. Apr. 27, 1936. Coarse yellow sand 1 15 Stiff gray and white clay 3 18 Coarse yellow sand 3 21 Hillside, P. D. C. Ball tract near Pine Gray and yellow packed sand 4 25 | | 9 |
| Bray end brown sandy clay 1 8 "Tell 504 Gray end yellow sendy clay 3 11 Hilltop, P. D. C. Ball tract near Pine Stiff gray clay 1 12 Bluff road, 8 miles northwest of Butler. Yellow packed sand 2 14 Coarse yellow sand 6 6 White packed sand 8 22 Red gravel and sand 2 8 Hard packed sand 22 Coarse red sand 6 14 No water sample collected. Apr. 27, 1936. Coarse yellow sand 1 15 Stiff gray and white clay 3 18 Well 501 Coarse yellow sand 3 21 Hillside, P. D. C. Bell tract near Pine Gray and yellow packed sand 4 25 | | No water sample coffeeted. May 12, 1930 |
| Gray and yellow sendy clay 3 11 Hilltop, P. D. C. Ball tract near Pine Stiff gray clay 1 12 Bluff road, 8 miles northwest of Butler. Yellow packed sand 2 14 Coarse yellow sand 6 6 White packed sand 8 22 Red gravel and sand 2 8 Hard packed sand 22 Coarse red sand 6 14 No water sample collected. Apr. 27, 1936. Coarse yellow sand 1 15 Stiff gray and white clay 3 18 Coarse yellow sand 3 21 Hillside, P. D. C. Ball tract near Pine Gray and yellow packed sand 4 25 | | Tall 504 |
| Stiff gray clay Yellow packed sand White packed sand Hard packed sand No water sample collected. Apr. 27, 1936. Well 501 Hillside, P. D. C. Bell tract near Pine Bluff road, 8 miles northwest of Butler. Coarse yellow sand Coarse yellow sand Coarse yellow sand Stiff gray and white clay Coarse yellow sand | • | |
| Yellow packed sand 2 14 Coarse yellow sand 6 6 White packed sand 8 22 Red gravel and sand 2 8 Hard packed sand 22 Coarse red sand 6 14 No water sample collected. Apr. 27, 1936. Coarse yellow sand 1 15 Stiff gray and white clay 3 18 Coarse yellow sand 3 21 Hillside, P. D. C. Bell tract near Pine Gray and yellow packed sand 4 25 | | |
| White packed sand 8 22 Red gravel and sand 2 8 Hard packed sand 22 Coarse red sand 6 14 No water sample collected. Apr. 27, 1936. Coarse yellow sand 1 15 Stiff gray and white clay 3 18 Well 501 Coarse yellow sand 3 21 Hillside, P. D. C. Ball tract near Pine Gray and yellow packed sand 4 25 | | |
| Hard packed sand 22 Coarse red sand 6 14 No water sample collected. Apr. 27, 1936. Coarse yellow sand 1 15 Stiff gray and white clay 3 18 Well 501 Coarse yellow sand 3 21 Hillside, P. D. C. Bell tract near Pine Gray and yellow packed sand 4 25 | <u>.</u> | · · · · · · · · · · · · · · · · · · · |
| No water sample collected. Apr. 27, 1936. Coarse yellow sand Stiff gray and white clay Well 501 Hillside, P. D. C. Bell tract near Pine Gray and yellow packed sand Gray and yellow packed sand Event Stiff gray and yellow packed sand Gray and yellow packed sand | | |
| Well 501 Stiff gray and white clay 3 18 Coarse yellow sand 3 21 Hillside, P. D. C. Bell tract near Pine Gray and yellow packed sand 4 25 | - | . [|
| Well 501 Coarse yellow sand 3 21 Hillside, P. D. C. Bell tract near Pine Gray and yellow packed sand 4 25 | | |
| Hillside, P. D. C. Bell tract near Pine Gray and yellow packed sand 4 25 | | |
| | Hillside, P. D. C. Bell tract near Pine | Gray and yellow packed sand 4 25 |
| Bluff road, 8g miles northwest of Butler! No water sample collected. May 12, 1936. | Bluff road, $8\frac{1}{2}$ miles northwest of Butler | No water sample collected. May 12, 1936. |

| | kness | | Thicknes | |
|--|--------|---------------------|---|---------|
| (1 | feet) | (feet) | (feet) | (feet) |
| Well 505 | | | Well 509Continued | 1 |
| Gentle slope, F. E. Hill tra | act. 1 | - mile | Yellow sand 4 | 22 |
| south of Trinity school near | | | Purple yellow clay | 23 |
| road, 7 miles northwest of E | | | Purple and yellow sand | 24 |
| Coarse yellow sand | 6 | . 6 | Purple sand 2 | 26 |
| Coarse orange sand | 5 | 111 | : Yellow sand | 27 |
| Coarse yellow sand | 3 | 14 | Rock | 27 |
| Yellow clay and sand | 1 | 15 | | ; 6, |
| Coarse white sand | 1 | 16 | Struck water at 15 feet. | 0 1076 |
| Coarse orange and white sand | | 17 | No water sample collected. June 2 | 9, 1900 |
| Coarse yellow send | 1 | 18 | Well 510 | |
| Gray silty sand | 3 | 21 | , | w Prono |
| Coarse yellow sand | 1 | 22 | Hillside, P. D. C. Ball tract near | |
| White sand | 6 | : | Lake road, 3 miles northwest of E | _ |
| | 5 | . 28 | Brown surface sand | 1 |
| Coarse yellow sand | Ð | 33 | Yellow clay and sand 5 | 6 |
| Struck water at 31 feet. | r 30 | 3070 | Yellow and white sandy clay 2 | 8 |
| No water sample collected. M | lay 12 | , 1936. | Yellow clay and sand 2 | 10 |
| W 13 COS | | | Red clay and sand 4 | 14 |
| Well 507 | | 2.3 | Red and white sandy clay 2 | 16 |
| Gentle slope, P. D. C. Ball | tract | , 6 ਨ ੂੰ | Yellow and white sandy clay 2 | 18 |
| miles north of Butler. | | _ | Yellow clay and sand 2 | 20 |
| Brown surface sand | 2 | 2 | Iron ore gravelly sand | 21 |
| Stiff red clay | 3 | 5 | Yellow sand | 22 |
| Orange sand | 5 | 10 | Red sand 2 | 24 |
| Yellow clay and sand | 1 | 11 | Brown sand | 25 |
| Gray soapstone | 1 | 12 | Yellow sand | 26 |
| Yellow scapstone | 1 | 13 | Brown send | 27 |
| Yellow and white sand and | | | Yellow and white sandy clay 4 | 31 |
| clay | 2 | 15 | Yellow clay and sand | 32 |
| Yellow sand | 9 | 24 | Iron ore sand 2 | 34 |
| Yellow clay and sand | 1 | 25 | Iron ore rock | 34 |
| Struck water at 14 feet. | | | No water sample collected. May 5, | 1936. |
| No water sample collected. | June 2 | 9, 1936 | | · |
| 777 3 3 7 0 0 | | | Well 511 | |
| Well 508 | - | - | Flat, P. D. C. Ball tract, 3 mile | |
| Hillside, F. E. Hill tract | | | of Red's Lake, $3\frac{1}{4}$ miles northwest | or |
| Farm road, 5\frac{1}{2} miles north of | _ | | Butler. | , |
| Yellow surface sand | 2 | , 2 | Yellow surface sand | 1 |
| Yellow sand | 6 | 8 | Yellow clay and sand Red and white and sandy clay 2 | 4 |
| Yellow clay and sand | 3 2 | 11 | | 6 |
| Yellow send | | 13 | · · · · · · · · · · · · · · · · · · · | 8 |
| Black and yellow sand | 2 | 15 | Fine brown send | 9 |
| Yellow sand | 7 | 22 | Fine red sand | 10 |
| Grey send | 10 | 32 | Fine orange sand 2 | 12 |
| Struck water at 23 feet. | | | Yellow packed sand 4 | 16 |
| No water sample collected. | June 2 | 9, 1936. | | 18 |
| | | | Fine yellow packed sand 2 | 20 |
| Well 509 | | | Fine white packed sand 4 | 24 |
| Hillside, C. E. Childs tract | | | Fine yellow packed sand 3 | 27 |
| Lake road, $3\frac{1}{2}$ miles north of | Butl | | No water sample collected. May 6, | 1936. |
| Brown cley and sand | 3 | 3 | | |
| Red and yellow sand and clay | 7 3 | 6 | Well 512 | |
| Orange silty sand | 1 | 7 | Edge of draw, G. T. Gilpin tract | near |
| Red and white sandy clay | 2 | 9 | old West Point road, 52 miles nor | thwest |
| Orange clay and sand | 3 | 12 | of Butler. | i |
| Brown sand | 1 | 13 | Brown surface sand | 1 |
| Grav and vellow sandy clay | 5 | 7.8 | (Continued on next nace) | |

Gray and yellow sandy clay

5

18

(Continued on next page)

| Thickness | | . Thickness Dep | |
|--|--|---|------------------|
| (feet) | (feet) | (feet) (fe | et) |
| Well 512Continued | | י י יייי יייי איני איני איני איני איני | |
| 77 - 4 | 4 | Well 516 | |
| Teliow clay and sand 3 Coarse yellow sand 2 | 4 | Hilltop, J. B. Daniel tract near Red' | S |
| | i | Lake, 3 miles west of Butler. | - |
| Coarse red and yellow sand | 9 | Yellow surface sand | 1 |
| Red and white sandy clay 2 Yellow and white sand 3 | 11 | Yellow sand and clay 2 | 3 |
| White sand | 14 15 | Gray and yellow sandy clay 1 White sand 2 Brown and yellow sand | 4 |
| Yellow sand | 16 | Brown and yellow sand | 4 6 7 |
| White send 3 | 19 | Red iron ore sand | 8 |
| Yellow and white packed sand 2 | 21 | Iron ore rock | `8 |
| No water sample collected. May 4, | 1936. | No water sample collected. Apr. 9, 19 | } 36. |
| Well 513 | | Well 519 | |
| Hillside, P. D. C. Ball tract near | r Hill | Hilltop, T. J. Ferguson tract near Pi | ine |
| road, Jose Ignacio Aquilera Surve | | Top School, 12 miles north of Butler. | |
| miles northwest of Butler. | , , | Stiff red clay | 1 |
| Brown surface sand 1 | , 1 | Red gravel and clay 2 | 3 |
| | 6 | Red sand and clay | 4 |
| Red and yellow sand 2 | 8 | Fine red sand 2 | 6 |
| Red clay and sand 4 | 12 | Yellow clay and sand | 7 |
| Orange clay and sand 2 Yellow sand rock | 14 | Fine yellow sand | 8 |
| Hard packed sand | 14 | Fine yellow sand 1 Yellow clay and sand 2 Fine yellow packed sand 2 Brown clay and sand 1 | 10 12 |
| No water sample collected. May 4, | | Brown clay and sand | 13 |
| | | Yellow packed sand 1 | 14 |
| Well 514 | | Iron ore rock | 14 |
| Hilltop, J. B. Daniels tract near | High- | No water sample collected. May 5, 193 | 6. |
| way 7, $4\frac{1}{8}$ miles west of Butler. | i | | |
| Yellow surface sand 1 | 1 | Well 520 | |
| Yellow clay and sand 3 | 4 | Gentle slope, W. E. McDaniel tract ne | ar |
| Red and yellow sand 4 | 8 | Highway 7, $1\frac{1}{4}$ miles west of Butler. | |
| Red and white soapstone 4 | 12 | Yellow surface sand 2 | 2 |
| Rock | 12 | Red and gray sandy clay 4 | 6 |
| Struck water at 9 feet. | i | Gray sand and soapstone 2 | 8 |
| Water level, 5.4 feet below top of | | Coarse yellow sand | 9 |
| ground, 25 hours after hole comple | | Red and white sand | 10 |
| Water sample collected. Apr. 9, 19 | 936 | Brown and white sand | 11 |
| | | Fine yellow sand 2 | 13 |
| Well 515 | | Brown sand | 14 |
| Hillside, P. D. C. Bell trect, 2 m | | Gray sand | 15 |
| south of Highway 7, 4 miles west | of | Brown sand and soapstone 1 | 16 |
| Butler. | | Black sandy soapstone 3 | 19 |
| Coarse orange sand 1 | 1 | Blue and green sand 6 | 25 |
| Red send and clay | 2 | Black sand and soapstone 1 | 26 |
| Red sand 1 | 3 | Rock | 26 |
| Orange silty sand 3 | 6 | Struck water at 21 feet. | |
| Yellow and white sand 6 | 12 | Water level, 19.2 feet below top of | |
| Yellow and white sandy clay 1 | 13 | ground, 24 hours after hole completed | 1. |
| Gray sand 1 | 14 | , Water sample collected. Apr. 9, 1936. | , |
| Yellow sand 3 | 17 | | |
| Purple soapstone 2 | 19 | Well 523 | |
| Black soapstone 10 | 29 | Hilltop, W. P. Telbot tract near Oak- | - |
| Purple soaps tone 1 | 30 | wood road, W. P. Powell Survey, 22 mi | |
| Brown clay and sand 1 | 31 | west of Butler. | - |
| White packed sand 1 | 32 | Yellow surface sand 3 | 3 |
| Yellow packed sand 1 | 33 | Coarse yellow sand 2 | 5 |
| Yellow sand rock | 33 | Red gravelly sand 4 | 9 |
| No water sample collected. May 6, | | Rock | 9 |
| | ······································ | No water sample collected. June 1, 19 | 36. |
| | | | |

| | kness eet) | Depth (feet) | | | cness eet) | Depth (feet) |
|---------------------------------|---------------|-----------------|----------|--|---------------|---------------------------------------|
| | 000) | (1000) | 1 | (1) | | (1000) |
| Well 526 | | | 1 | Well 532 | | |
| Hillside, H. M. Johnson and N | . C. | Grider | 1 | Hillside, Mrs. M. Killough to | | |
| tract, T. Dowie Survey, 4 mil | es so | outh- | ' | Highway 7, $\frac{1}{4}$ mile southeast of | of But | tler. |
| west of Butler. | | | | Coarse red sand | 2 | 2 |
| Yellow clay and sand | 2 | 2 | 1 | Red clay and sand | 3 | 5 |
| Coarse gravelly sand | 1 | 3 | | Red gravelly sand | 2 | 7 |
| Red sandy clay | 2 | ; 5 | | Red clay and sand | 6 | 13 |
| Red and white sandy clay | 1 | i 6 | | Struck water at 8 feet. | | |
| Orange clay and sand | 1 | 7 | | Water level, 6.8 feet below t | top of | |
| White scaps tone | 1 | 1 8 | | ground, 21 hours after hole | comple | ted. |
| Red sand | 2 | 10 | | Water sample collected. Apr. | 9, 19 | 936. |
| Gray sand and soapstone | 2 | 11 | | | | |
| Coarse sand | 2 | 13 | | Well 533 | | |
| Gray and purple scapstone | 1 | 14 | | Hillside, Mrs. A. W. Parsons | tract | near |
| Red sand | 1 | 15 | ' | Oakwood road, la miles southe | | |
| Yellow sand | 1 | 16 | | Butler. | | |
| Brown sand and soapstone | 2 | 18 | | Yellow sand | 7 | 7 |
| Coarse brown sand | 1 | 19 | 1 | Yellow quicksand | 3 | 10 |
| Brown sand and clay | 3 | 22 | ' | Struck water at 7 feet. | | |
| Struck water st 15 feet. | | | | No water sample collected. Ju | une 2'. | 1936. |
| Water sample collected. June | 1, 1 | .936. | | | | · · · · · · · · · · · · · · · · · · · |
| | | *** | | Well 534 | | |
| Well 529 | | | ١ | Hilltop, P. M. McGeorge trace | t near | • |
| Hillside, Geo. E. Dilley trac | t nea | ır | | Highway 7, $2\frac{1}{2}$ miles east of 1 | | |
| Buffalo road, 4 miles southwe | st of | • | | Gray surface sand | 2 | 2 |
| Butler. | | | | Gray and yellow sand | 1 | 3 |
| Red sandy clay | 3 | 3 | , ' | Gray and yellow sandy clay | 1 | 4 |
| Orange clay and sand | 3 | 6 | | Gray and yellow sand | 3 : | 7 |
| White sand | 2 | 8 | , | Gray and red sand | 2 | 9 |
| Yellow sand | 2 | 10 | 1 | Gray and yellow sand | 2 | 11 |
| Salmon-colored sand | 2 | 12 | ł | Gray and red sand | 2 | 13 |
| Yellow sand | 1 | 13 | - | Gray and yellow sand | 6 | 19 |
| Yellow gravelly sand | ī | 14 | , | Gray and yellow sandy clay | 6 | 25 |
| Yellow sand and clay | 3 | 17 | 1 | Struck water at 8 feet. | | 20 |
| Gray and yellow sendy clay | 1 | 18 | į | Water level, 5.4 feet below t | ton of | , |
| Stiff purple clay | 4 | 22 | | ground, 3 hours after hole co | | |
| Struck water at 14 feet. | - | ~ ~ ~ | ł | Water semple collected. Apr. | _ | |
| Water sample collected. June | 1. 19 | 36. | 1 | we der sample dolled ded. Apri- | 10, 1 | .000 |
| | -, | | • ' | Well 536 | | |
| Well 531 | | | ì | Gentle slope, W. C. Gorman tr | ract n | ear |
| Hillside, Thos. H. Lee tract | near | Oak- | | Cakwood road, 2-3/4 miles sou | utheas | tof |
| wood roed, $3-3/4$ miles southw | est o | f | | Butler. | | |
| Butler. | | ļ | 1 | Yellow surface sand | 1 | 1 |
| Brown surface sand | 1 | 1 | <i>t</i> | Yellow clay and sand | 3 | 4 |
| Red sand and clay | 4 | 5 | ì | Red and white clay and sand | 1 ' | 5 |
| Orange sand and clay | 4 | 9 | 1 | Red and white sandy clay | 3 | 8 |
| Yellow silty sand | 1 | 10 | İ | Red clay and send | ĺ, | 9 |
| Orange clay and sand | 1 | 11 | | Gray clay and sand | ī | 10 |
| Orange and white silty sand | 4 | 15 | 1 | Orange clay and sand | 4 | 14 |
| White sand | ī | 16 | | Yellow clay and sand | 2 | 16 |
| Yellow sand | 3 | 19 | 1 | Purple sandy soapstone | 1 | 17 |
| Iron ore gravel | 3 | 22 | | Yellow clay and sand | 2 | 19 |
| Rock | • | 22 | | Purple and yellow sandy clay | í | 24 |
| No water sample collected. Ju | ne 3. | | ļ | Brown sand and soapstone | 1 | 25 |
| | | | • | Green and brown sand | 5 | 30 |
| | | <u>}</u> | | Struck we ton et 29 feet | J . | 50 |

Struck water at 28 feet.

Water sample collected. June 2, 1936.

| Logs of W. P. A | • tes | t wells | in Freestone CountyContinued | |
|--|---------|-----------------|--|------------|
| | | Depth (feet) | Thickness (feet) | |
| | 666) | (1660) | | (166.0) |
| Gentle slens B Well 539 | | | Well 549Continued | 1 |
| Gentle slope, B. B. Kimbell | tract | near | Yellow and white silty sand 4 | 13 |
| Oakwood road, 3 miles south | _ | _ | Gray and yellow sand 3 | 16 |
| Yellow clay and sand | 1 | 1 | Purple sandy clay | 17 |
| Yellow sandy clay | 2 | 3 | Brown and yellow sand 2 | 19 |
| Red and white sandy clay | 3 | 6 | Struck water at 13 feet. | |
| Yellow and white slick clay Yellow and white clay and | 4 | 10 | Water sample collected. June 3, 1 | 936. |
| sand | 3 | 13 | Well 550 | |
| Stiff brown clay | 4 | 17 | Hillside, J. W. Anders tract near | |
| Stiff black clay | 7 | 24 | wood road, 5 miles southeast of Bu | |
| Struck water at 12 feet. | | | Yellow clay and sand 2 | 2 |
| Water sample collected. June | e 3, | 1936. | Red and white sandy clay 4 | 6 |
| | | | Yellow and white sandy clay 4 | 10 |
| Well 542 | | | Yellow sand | 11 |
| Hilltop, Ben Cannon tract nes | | \mathtt{nely} | Red and yellow sandy clay 3 | 14 |
| road, 4 miles south of Butle: | r. | | Yellow sand 2 | 16 |
| Yellow surface sand | 1 | 1 | Red clay | 17 |
| Orange clay and sand | 2 | 3 | Gray clay and sand | 18 |
| Red clay and sand | 3 | 6 | Gray and yellow sandy clay 2 | 20 |
| Red and white sandy clay | 2 | 8 | Orange colored sand 2 | 22 |
| Red packed sand | 2 | 10 | Yellow sandy clay | 23 |
| Hard packed sand | | 10 | Gray and yellow sand 3 | 26 |
| No water sample collected. Ju | une 3 | 1936. | White sand | 27 |
| | ···· | | Gray and yellow sand 3 | 30 |
| Well 545 | | | Yellow quicksand 2 | 32 |
| Hilltop, E. Guess tract near | Oakwo | ood | Quicksand | 32 |
| road, $4\frac{1}{4}$ miles southeast of I | Butle: | r. | Struck water at 30 feet. | |
| Yellow surface sand | 2 | 2 | No water sample collected. June 30 | 1936. |
| Yellow clay and sand | 1 | 3 | | |
| Red and yellow sandy clay | 1 | 4 | Well 551 | |
| Red and white sandy clay | 2 | 6 | Flat, Childress and Challacombe to | act |
| Yellow silty sand | 2 | 8 | near Highway 7, $4\frac{1}{4}$ miles east of H | utler. |
| Red and yellow silty sand | 2 | 10 | Stiff black clay 4 | 4 |
| Orange colored sand | 1 | 11 | Stiff green clay | 5 |
| Yellow sand | 3 | 14 | Stiff yellow clay 5 | 10 |
| Orange colored sand | 3 | 17 | Stiff brown and gray clay 6 | 16 |
| Brown gravelly sand | 1 | 18 | Stiff yellow and gray clay 3 | 19 |
| White silty sand | 2 | 20 | Yellow and gray sandy clay 2 | 21 |
| Gray and yellow sand | 5 | 25 | Stiff brown and gray clay | 22 |
| White clay and sand | 1 | 26 | Yellow sand 4 | 26 |
| Gray sand | ī | 27 | Orange sand 1 | 27 |
| Yellow sand | 2 | 29 | Damp yellow sand 2 | 29 |
| Brown and gray sandy clay | ī | 30 | Gray and yellow sand 3 | 32 |
| Yellow sand | i | 31 | Quicksand | 32 |
| Brown and gray sand | i | 32 | | 32 |
| Brown and | 5 | 37 | Struck water at 32 feet. | 1026 |
| Struck water at 35 feet. | J | 1 01 | No water sample collected. June 30 | , 1900. |
| Water sample collected. June | 9 10 | 226 | Woll 552 | |
| ha del Sample Collected, odne | ، ۱ و ۲ | 300. | Well 552 | . III ah |
| Well 549 | | | Hillside, J. H. Jackson tract near | . 111 g11- |
| | a+ ~~ | n | way 7, 5 miles east of Butler. | 77 |
| Hillside, J. L. Crawford tracewood road, $5\frac{1}{2}$ miles southeas | o net | ar Vak- | | 3 |
| | _ | _ | Gray and yellow sandy clay 3 | 6 |
| Brown surface sand | 1 | 1 | Gray and yellow sand 3 | 9 |
| Red and yellow sandy clay | 3 | 4 | Yellow sand 2 | 11 |
| Red and yellow sand | 2 | 6 | Gray and yellow sand 2 | 13 |
| Red and white clay and sand | 3 | 9 | (Continued on next page) | |
| | | 1 | | <u> </u> |

| | CT TO T | n Freestone CountyContinued | |
|---------------------------------------|----------------|--|----------|
| Thickness Do | epth feet) | Thicknes (feet) | |
| Well 552Continued | | Well 608Continued | |
| Yellow sand | 14 | Yellow silty sand 2 | . 14 |
| Gray and yellow sand 2 | 16 | Gray silty sand 2 | 16 |
| Gray sand 5 | 21 | Brown silty sand | 17 |
| Quicksand | 21 | Gray and yellow silty sand 2 | 19 |
| Struck water at 20 feet. | ~1 | Brown silty sand | 21 |
| No water sample collected. Apr. 10. | 1076 | | 23 |
| no wood Sample Collected, Apr. 10. | 1990* | Yellow sand | 30 |
| Well 553 | | 1011011 | 31 |
| | 000 | | 91 |
| River bottoms, O. L. Gregg tract, 1,0 | 000 | Struck water at 30 feet. | 1 7000 |
| feet south of Highway 7 junction at | River | No water sample collected. Apr. | 25, 1936 |
| crest, 6 miles east of Butler. | | 1 | |
| Brown surface sand 4 | 4 | Well 612 | |
| Red clay and sand 2 | 6 | Hillside, Franklin Glazener trac | |
| Red send 1 | 7 | Highway 7, 8 miles northeast of | Dew. |
| Yellow sand 3 | 10 | Yellow sandy clay | 1_ |
| Yellow and white send 3 | 13 | Stiff yellow clay 2 | 3 |
| Yellow quicksand 2 | 15 | Yellow sandy clay 3 | 6 |
| Struck water at 12 feet. | | Stiff gray clay 2 | 8 |
| No water sample collected. Apr. 10, | 1936. | Gray sandy clay | 1 9 |
| | | Yellow sand and clay 5 | ! 14 |
| Well 600 | | Gray sandy clay 2 | 16 |
| Gentle slope, Mrs. Burta Davis tract | $5\frac{1}{2}$ | Gray and yellow clay and | 1 |
| miles northwest of Dew. | | sand 2 | 18 |
| Brown sand 1 | 1 | Fine white sand | 19 |
| Red sandy clay 4 | 5 | Fine yellow sand | 20 |
| Reddish-yellow sand and clay 2 | 7 | Yellow sand and clay | 21 |
| Yellow sand 2 | 9 | Gray sandy clay 4 | 25 |
| Yellow sand and clay 4 | 13 | Blue shale 3 | 28 |
| Gray soapstone | 14 | Lignite 1 | 29 |
| Yellow sand 2 | 16 | 'No water sample collected. Apr. | |
| Yellow sand and soapstone 1 | 17 | NO Waller Bampie Collected at hir | 7, 1000 |
| Rock | 17 | Well 615 | |
| No water sample collected. Mar. 12, | | Hillside, Silas Dockery tract, 1 | mile |
| no wa der Sampre Collected, Mar. 15. | 1300. | north of Highway 7, 82 miles nor | |
| Well 605 | | of Dew. | oneas o |
| Gentle slope, J. R. B. Cain tract new | o m | Stiff red clay | 1 |
| Highway 75, 7 miles north of Dew. | ar | • • • • • • • • • • • • • • • • • • • | 4 |
| | 7 | , v | 3 |
| Stiff red clay 3 | 3 | | 6 |
| Red sendy clay 4 | 7 | Orange colored sand | 7 |
| Red and yellow clay | 8 | Yellow sand 5 | 12 |
| Brown and gray sand 9 | 17 | Gray and yellow sand and | |
| Yellow send | 18 | clay 2 | 14 |
| Brown sand 4 | 22 | Yellow sand 7 | 21 |
| Struck water at 16 feet. | | Yellow sandy clay 3 | 24 |
| Water sample collected. Mar. 26, 1930 | 6. | Purple and gray sand 3 | 27 |
| | Ì | Gray sand 5 | 32 |
| <u>Well 608</u> | | No water sample collected. May 4 | , 1936. |
| Gentle slope, W. L. Moody tract, R. (| Gainer | , | |
| Survey, 7 miles north of Dew. | | Well 617 | |
| Brown surface sand 1 | 1 | Hillside, A. Hendry tract near T | urling- |
| Yellow and red sandy clay 2 | 3 | ton road, $10\frac{1}{2}$ miles northeast of | |
| Brown clay 2 | 5 | Yellow surface sand 3 | 3 |
| Gray and red sandy clay 3 | 8 | Red and yellow sand and | į |
| Coarse brown sand 1 | 9 | clay 3 | 6 |
| Coarse gray and yellow sand 1 | 10 | Red and white sandy clay | 7 |
| Coarse gray sand 2 | 12 | (Continued on next page) | |
| 5 v | , , | (1 - 1 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - | |

| Thickness Depth | Logs of W. P. | A. tes | t wells : | in Freestone CountyContinued | | |
|--|-----------------------------|--------|-----------|--|---------------|----------|
| White sandy clay | | | | | _ | |
| Red and white sendy clay 1 8 Red and grey send 4 22 22 23 24 24 25 24 25 24 25 24 25 25 | | | (2007) | | | |
| Red and white sendy clay | | 1 | 8 | | . | 22 |
| Red and white sand 1 | | 2 | | | | • |
| Red gravel and clay | | ĩ | : | 1 | | 4 |
| Stiff gray clay 1 13 Stiff gray clay 2 15 Stiff gray clay 4 19 Stiff gray clay 4 19 Stiff gray clay 4 19 Stiff gray clay 1 20 Elack spongy lignite 2 22 Furple sendy clay 5 27 Struck water at 22 feet. Water sample collected. Apr. 27, 1936. Well 623 Flat, Joe McAdems treat near Highway 7, 8 miles northeest of Dew. Struck water at 22 feet. Well 619 From read of Lay 2 5 Struck water at 22 feet. Well 619 From read of Lay 2 5 Struck water at 28 feet. Mo water sample collected. Apr. 27, 1936. Hillside, N. L. Richerdson tract near Turkington road, 9 miles northeast of Dew. Stiff gray clay 1 6 Gray and yellow sand and clay 2 2 5 Stiff gray clay 2 4 5 Gray sandy clay 1 6 Gray sandy clay 1 6 Gray sandy clay 1 6 Gray sandy clay 1 6 Gray sandy clay 1 6 Gray sand 2 10 Fine gray sand 3 19 Gray sandy clay 1 6 Fine gray sand 3 19 Gray sandy clay 1 6 Fine gray sand 3 19 Gray sandy clay 1 20 Fine brown sand 2 20 Fine gray sand 3 19 Gray sandy clay 1 20 Fine gray sand 3 | | ī | 1 | I . | - | ſ |
| Stiff yellow clay | | 1 | 1 | 4 | - | , |
| Stiff gray clay 4 19 19 10 10 10 10 10 10 | | 2 | | • | r. 9. | 1936 |
| Stiff purple clay | | | . 1 | 1.0 1.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 | | |
| Black spongy lighte | | | 3 | Well 623 | | |
| Furple sendy clay | | | | | Highwa | ay 7. |
| Struck water at 22 feet. Wait sample collected. Apr. 27, 1936. | | | 1 | | U | • |
| ### Semple collected. Apr. 27, 1936. Well 619 | - • | | 1 | | 1 | , l |
| Well 619 Hillside, N. L. Richardson tract near Turlington road, 9 miles northeast of Dew. Yellow sandy clay 1 1 1 1 1 1 1 1 1 | | . 27. | 1936. | 1 | | 1 |
| Well 619 | | | | | 2 | 5 |
| ## ## ## ## ## ## ## ## ## ## ## ## ## | Well 619 | | 1 | | 1 | 6 |
| Clay | Hillside, N. L. Richardson | tract | near | | | <u> </u> |
| Dew. | | | | | 4 | 10 |
| Yellow sandy clay | | | | 1 | 2 | 12 |
| Red sandy clay | Yellow sandy clay | 1 | 1 | | 1 | 13 |
| Stiff red clay 2 | Red sandy clay | 1 | 2 | · • | 2 | 15 |
| Stiff yellow clay | Stiff red clay | | 4 | | 1 | 16 |
| Fine brown sand 1 20 20 20 20 20 20 20 | • | 1 | 5 | | 3 | 19 |
| Yellow sendy clay | Gray sandy clay | 1 | 6 | | 1 | 20 |
| Gray sandy clay | | 1 | 7 | Fine gray sand | 8 | 28 |
| Yellow sand and clay | | 1 | 8 | 1 | | |
| No water sample collected. Apr. 7, 1936. No water sample collected. Apr. 7, 1936. Yellow sand and clay | Yellow sand and clay | 1 | 9 | | 1 | 29 |
| Yellow sand and clay 3 13 | | 1 | 10 | No water sample collected. Ap | r. 7, | 1936. |
| Yellow silty sand 1 | Yellow sand and clay | 3 | 13 | | | |
| Mountain | | 5 | 18 | Well 628 | | _ |
| No water sample collected. Apr. 27, 1936 east of Dew. | Gray silty sand | 1 | 19 | Hilltop, E. and O. Emmons tra | ct, 1 | 1 |
| Well 620 Stiff red clay 2 2 2 2 2 3 3 4 4 4 4 4 4 4 4 | | | | miles south of Highway 7, 6 m | iles : | north- |
| Nell 620 Stiff yellow clay 2 4 | No water sample collected. | Apr. 2 | 7, 1936 | east of Dew. | | , |
| Side of draw, H. H. Wooldridge tract near Humble Pump Station road, 10 miles northeast of Dew. Yellow sand and clay 3 | | | 1 | Stiff red clay | 2 | 2 |
| Near Humble Pump Station road, 10 miles Yellow sand and clay 3 8 | | | 1 | Stiff yellow clay | | |
| No water sample collected. May 4, 1936 Hilltop, Mrs. S. A. Roberts tract, on Sugar Hill 8½ miles northeast of Dew. Well 621 Hilltop, Mrs. S. A. Roberts tract, on Sugar Hill 8½ miles northeast of Dew. Red and yellow sand | Side of draw, H. H. Wooldri | dge tr | act ; | Yellow sandy clay | 1 | |
| Brown gravelly sand 4 | near Humble Pump Station ro | ad, 10 | miles | Yellow sand and clay | | |
| Red clay and sand 3 7 Gray silty sand 6 22 Red gravelly sand 1 8 Blue sandy clay 1 23 Brown clay and sand 2 10 Black spongy lignite 1 24 Yellow sand 2 12 Brown clay and packed sand 2 26 Yellow sand 1 14 Yellow sand packed sand 2 26 Yellow sand rock 14 Yellow sand rock 14 Yellow sand collected. May 4, 1936 Gentle slope, Leonard Emmons tract near Highway 7, 7½ miles north of Dew. Yellow surface sand 2 2 Red and yellow sandy clay 2 2 Hilltop, Mrs. S. A. Roberts tract, on Sugar Hill 8½ miles northeast of Dew. Red and yellow sandy clay 2 4 Brown surface sand 2 2 2 Red and yellow clay and 2 4 Red clay and sand 4 6 Gray and yellow sand 3 9 Fine red sand 2 8 Gray sand 2 1 Fine yellow sand 4< | | | | Gray silty send | | 1 |
| Red gravelly sand 1 | • | 4 | 4 | Yellow silty sand | | 1 |
| Brown clay and sand 2 10 Black spongy lignite 1 24 24 26 26 26 26 27 29 29 29 29 29 29 20 29 20 20 | Red clay and sand | 3 | 7 | Gray silty sand | 6 | , |
| Yellow silty sand 2 12 Brown clay and packed sand 2 26 Yellow sand 1 13 No water sample collected. Apr. 29, 1936 Gray and yellow sand rock 14 Well 632 Well 632 No water sample collected. May 4, 1936 Gentle slope, Leonard Emmons tract near Highway 7, 7½ miles north of Dew. Yellow surface sand 2 2 Hilltop, Mrs. S. A. Roberts tract, on Sugar Hill 8½ miles northeast of Dew. Red and yellow sandy clay 2 4 Sugar Hill 8½ miles northeast of Dew. Red and yellow clay and 2 6 Red clay and sand 4 6 Gray and yellow sand 3 9 Fine red sand 2 8 Gray sand 2 11 Fine yellow sand 4 12 Yellow packed sand 5 16 White silty sand 3 15 Gray clay and sand 4 20 Red and yellow sand 1 21 Brown clay and sand 1 21 Yellow sand 3 15 Gray clay and sand 1 21 | = * | | | · · · · · · · · · · · · · · · · · · · | 1 | i |
| Yellow sand 1 | | | i | Black spongy lignite | _ | |
| The stand of the | - | | 1 ! | | | |
| Yellow sand rock No water sample collected. May 4, 1936 Well 632 Gentle slope, Leonard Emmons tract near Highway 7, 72 miles north of Dew. Yellow surface sand 2 2 Hilltop, Mrs. S. A. Roberts tract, on Sugar Hill 82 miles northeast of Dew. Brown surface sand 2 2 8 Red and yellow sandy clay 2 4 Red clay and sand 4 6 Gray and yellow sand 3 9 Fine red sand 2 8 Gray sand 2 11 Fine yellow sand 4 12 Yellow packed sand 5 16 White silty sand 3 15 Gray clay and sand 4 20 Red and yellow sand 1 21 Yellow sand 1 18 Gray clay and sand 1 21 Yellow sand 1 18 Gray clay and sand 1 22 | | _ | 1 | No water sample collected. Ap | r. 29 | , 1.936 |
| No water sample collected. May 4, 1936 Well 621 Hilltop, Mrs. S. A. Roberts tract, on Sugar Hill 8½ miles northeast of Dew. Brown surface sand 2 2 Red and yellow sandy clay and Brown surface sand 4 6 Gray and yellow sand Fine red sand 2 8 Gray sand 5 16 Fine yellow sand 4 12 Yellow packed sand 5 16 White silty sand 7 2 8 Brown clay and sand 8 2 1 8 Gray clay and sand 9 2 1 1 8 Gray clay and sand 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | | 1 | 1 1 | | | |
| Highway 7, 7½ miles north of Dew. | | | 1 1 | | | |
| Well 621 Hilltop, Mrs. S. A. Roberts tract, on Sugar Hill 8½ miles northeast of Dew. Brown surface sand Brown surface sand Brown surface sand Brown surface sand Brown surface sand Brown surface sand Brown surface sand Brown surface sand Brown surface sand Brown surface sand Brown surface sand Brown surface sand Brown surface sand Brown surface sand Brown surface sand Brown surface sand Brown sand Brown sand Brown sand Brown sand Brown sand Brown clay and sand Brown clay and sand Brown clay and sand Brown sand Br | No water sample collected. | May 4, | 1936 | | | near |
| Hilltop, Mrs. S. A. Roberts tract, on Sugar Hill 8½ miles northeast of Dew. Red and yellow sandy clay and Brown surface sand 2 2 sand 2 6 Red clay and sand 4 6 Gray and yellow sand 3 9 Fine red sand 2 8 Gray sand 2 11 Fine yellow sand 4 12 Yellow packed sand 5 16 White silty sand 3 15 Gray clay and sand 4 20 Red and yellow sand 2 17 Brown clay and sand 1 21 Yellow sand 1 18 Gray clay and sand 1 22 | | | į | | _ : | ' ^ |
| Sugar Hill $8\frac{1}{2}$ miles northeast of Dew. Red and yellow clay and Brown surface sand 2 sand 2 6 Red clay and sand 4 6 Gray and yellow sand 3 9 Fine red sand 2 8 Gray sand 2 11 Fine yellow sand 4 12 Yellow packed sand 5 16 White silty sand 3 15 Gray clay and sand 4 20 Red and yellow sand 2 17 Brown clay and sand 1 21 Yellow sand 1 18 Gray clay and sand 1 22 | | | | • | | |
| Brown surface sand 2 sand 2 6 Red clay and sand 4 6 Gray and yellow sand 3 9 Fine red sand 2 8 Gray sand 2 11 Fine yellow sand 4 12 Yellow packed sand 5 16 White silty sand 3 15 Gray clay and sand 4 20 Red and yellow sand 2 17 Brown clay and sand 1 21 Yellow sand 1 18 Gray clay and sand 1 22 | | | | • | ટ | 4 |
| Red clay and sand 4 6 Gray and yellow sand 3 9 Fine red sand 2 8 Gray sand 2 11 Fine yellow sand 4 12 Yellow packed sand 5 16 White silty sand 3 15 Gray clay and sand 4 20 Red and yellow sand 2 17 Brown clay and sand 1 21 Yellow sand 1 18 Gray clay and sand 1 22 | | _ | | <u> </u> | ~ | |
| Fine red sand 2 8 Gray sand 2 11 Fine yellow sand 4 12 Yellow packed sand 5 16 White silty sand 3 15 Gray clay and sand 4 20 Red and yellow sand 2 17 Brown clay and sand 1 21 Yellow sand 1 18 Gray clay and sand 1 22 | | | 1 | • | | |
| Fine yellow sand 4 12 Yellow packed sand 5 16 White silty sand 3 15 Gray clay and sand 4 20 Red and yellow sand 2 17 Brown clay and sand 1 21 Yellow sand 1 18 Gray clay and sand 1 22 | | | 1 | * | | |
| White silty sand 3 15 Gray clay and sand 4 20 Red and yellow sand 2 17 Brown clay and sand 1 21 Yellow sand 1 18 Gray clay and sand 1 22 | | | , | | | |
| Red and yellow sand 2 17 Brown clay and sand 1 21 Yellow sand 1 18 Gray clay and sand 1 22 | • | | 1 | - | | |
| Yellow sand 1 18 Gray clay and sand 1 22 | • | | i 1 | - · · · · · · · · · · · · · · · · · · · | 1 | |
| | | | | The state of the s | _ | |
| (Continued on next page) | Yellow sand | 1 | 18 | | 7 | 22 |
| | | | <u> </u> | (Continued on next pa | ge) | |

| | | | In Frees tone CountyContinued | |
|------------------------------|-------------------|--------------|--|---------------|
| | kness 'eet) | Depth (feet) | Thickness D (feet) (| epth feet) |
| Well 632Continu | | 1 | Well 643 | 1000/ |
| Yellow clay and sand | leu , | 23 | Creek bottoms, Ben Baker tract, J. M | |
| Gray clay and sand | 7 | 26 | Hallmark Survey, $3\frac{1}{4}$ miles north of D | |
| Brown clay and sand | 3 | 29 | 1 | _ |
| No water sample collected. A | | | Red sandy clay | 1 3 |
| No water sample collected. F | ipr. | 1930. | Red and white sandy clay 2 | |
| W-3.3 CV4 | | | Brown silty sand 3 | 6 |
| Well 634 | 1 - 1 | D | Gray and yellow silty sand 1 | 7 |
| Gentle slope, W. W. Riley Es | | | Brown silty sand 1 | 8 |
| Holtzclaw Survey, 5 miles no | _ | _ | Coarse yellow sand 2 | 10 |
| Yellow surface sand | 1 | 1 | Coarse brown and yellow sand 2 | 12 |
| Red and white sandy clay | 5 | 6 | Coarse brown sand 4 | 16 |
| Gray and yellow silty sand | 3 | 9 | Coarse gray sand 10 | 26 |
| Yellow silty sand | 5 | 14 | Struck water at 15 feet. | |
| Gray soapstone | 2 | 16 | Water sample collected. Apr. 25, 193 | 6. |
| Gray sandy soapstone | 2 | 18 | | |
| Coarse gray sand | 4 | 22 | Well 645 | |
| Coarse yellow sand | 3 | 25 | Hillside, side of Highway 75, 12 mil | es |
| Gray sendy scapstone | 1 | 26 | north of Dew. | |
| Gray packed sand | 1 | 27 | Blue sandy clay 3 | 3 |
| Hard packed sand | | 27 | Yellow sandy clay | 4 |
| No water sample collected. A | pr. 25 | , 1936 | Gray and yellow sandy clay | 5 |
| | | | Coarse gray sand | 6 |
| Well 636 | | | Brown sand | 7 |
| Hillside, Sim Chavers tract | near H | ighway | Gray and yellow sandy clay 5 | 12 |
| 75, 5 miles north of Dew. | | | Brown and purple silty sand 1 | 13 |
| Brown sandy clay | 2 | 2 | Damp black sendy clay | 14 |
| Red sendy clay | 3 | 5 | Brown soapstone 1 | 15 |
| Red clay and sand | 1 | 6 | Gray and yellow silty sand 1 | 16 |
| Red and gray sand | 2 | 8 | Gray sandy soapstone 1 | 17 |
| Gray water sand | 3 | 11 | Gray silty sand 1 | 18 |
| Yellow clay and sand | 1 | 12 | Yellow silty sand 2 | 20 |
| Brown clay and sand | 1 | 13 | Gray joint clay | 21 |
| Yellow sandy clay | 3 | 16 | Struck w ater at 20 feet. | |
| Gray joint clay | 1 | 17 | Water level, 13.6 feet below top of | |
| Struck water at 10 feet. | | | ground, 100 hours after hole complet | ed. |
| Water level, 7.6 feet below | top of | | Water sample collected. Mar. 27, 193 | |
| ground, 5 hours after hole c | _ | | | |
| Water sample collected. Mar. | | | Well 646 | |
| | | | Hilltop, Oscar Johnson tract between | |
| Well 639 | | | Dew Highway and Highway 75, 2 miles | |
| Hilltop, side of Highway 75, | $3\frac{1}{4}$ mi | les | northwest of Dew. | |
| north of Dew. | , O4 | | Yellow surface sand 2 | 2 |
| Red sandy clay | 3 | 3 | Stiff yellow sandy clay 2 | 4 |
| Red and yellow sandy clay | 1 | .4 | Gray clay and sand 4 | 8 |
| Yellow clay and sand | 2 | 6 | Gray sandy clay 4 | 12 |
| Brown clay and sand | 1 | 7 | Yellow silty sand 4 | 16 |
| Gray and yellow send | 3 | 10 | Purple silty sand | 17 |
| | 2 | 12 | | 22 |
| Iron ore gravel | 1 | 1 | | |
| Gray and yellow sand | 4 | 16 | No water sample collected. Mar. 24, | 7390 |
| Gray send and iron ore grave | 1 | 18 | W 33 CFO | |
| Gray silty sand | 2 | 20 | Well 652 | |
| Iron ore gravel | 6 | 26 | Gentle slope, J. A. Harrison tract | |
| Struck water at 22 feet. | 30 - | 086 | near Highway 75, $\frac{1}{2}$ mile south of Dew | _ |
| Water sample collected. Mar. | 12, 1 | 936. | Red and yellow sandy clay 2 | 2 |
| | | | Stiff red and yellow clay 1 | 3 |
| | | 1 | Stiff yellow clay 1 | 4 |
| | | 1 | Yellow clay and sand | 5 |
| | | | (Continued on next page) | |

| C . | | | THE TOOL COME OF CONTROL |
|-------------------------------------|-----------------|--------------|---|
| | ckness feet) | Depth (feet) | Thickness Depth (feet) (feet) |
| | | (reec) | |
| Well 652Continue Gray clay and sand | _ | | Well 658Continued Coarse white sand 2 32 |
| Stiff brown clay | 1 | . 6 7 | · · · · · · · · · · · · · · · · · · · |
| Stiff purple clay | 1 | 8 | Iron ore gravel 2 34 No water sample collected. Apr. 29, 193 |
| Gray clay and sand | 3 | 11 | No water sample collected, Apr. 23, 130 |
| Coarse yellow sand | 3 7 | 18 | Well 659 |
| Red sand rock | , | . 18 | Hillside, E. E. Williford tract, $4\frac{1}{2}$ mil |
| No water sample collected. M | or 27 | | northeast of Dew |
| ind the total deliptic dollars the | 018 01 | 1000 | Coarse yellow sand 4 4 |
| Well 656 | | | Red and white silty sand 1 5 |
| Hillside, Mrs. Black tract, | J. M. | Hall- | Red and white sandy clay 3 8 |
| mark Survey, 1-3/4 miles nor | | | Coarse red sand 2 10 |
| Dew. | 0110012 0 | • | Iron ore rock |
| Yellow surface sand | 1 | 1 | No water sample collected. Apr. 29, 193 |
| Yellow sandy clay | ī | 2 | |
| Yellow clay and sand | 4 | 6 | Well 660 |
| Iron ore gravel | ĩ | 7 | Hillside, E. Millican tract near High- |
| Coarse yellow sand | 8 | 15 | way 7, 9 miles northeast of Dew. |
| Coarse white sand | 5 | 20 | Yellow surface sand 1 1 |
| Coarse brown sand | 2 | 22 | Yellow clay and sand 5 |
| Brown packed sand | 2 | 24 | Red and yellow clay and sand 2 8 |
| Hard packed sand | | 24 | Red and white soaps tone 5 11 |
| No water sample collected. A | pr. 25 | | Gray soaps tone 2 13 |
| | | | Iron ore rock |
| Well 657 | | | No water sample collected. Apr. 9, 1936 |
| Side of draw, M. A. Black tra | a ct ne | ar | |
| Lanely road, 1-3/4 miles nor | thea s t | of | Well 661 |
| Dew. | | ! | Gentle slope, P. D. C. Ball Estate, 12 |
| Yellow surface sand | 3 | 3 ; | miles south of Highway 7, 8 miles north |
| Red sandy clay | 2 | 5 | east of Dew. |
| Red and white sandy clay | 1 | 6 | Coarse yellow sand 8 . 8 |
| Coarse yellow sand | 4 | 10 | Coarse orange sand 5 13 |
| Coarse brown sand | 1 | , 11 | Coarse yellow and white sand 2 15 |
| Coarse white sand | 3 | 14 | Orange packed sand 3 18 |
| Coarse yellow sand | 7 | 21 | Red packed sand 6 24 |
| Coarse white sand | 4 | 25 | Coarse salmon colored sand 5 29 |
| Coarse yellow sand | 7 | 32 | Struck water (seep) at 7 feet. |
| Gray sandy scapstone | 1 | 33 | Struck water at 25 feet. |
| No water sample collected. A | pr. 25 | , 1936 | No water sample collected. May 6, 1936 |
| Well 658 | | | Well 664 |
| Gentle slope, B. M. Burgher | tract. | 3 | Hillside, G. J. Weaver tract, 32 miles |
| miles south of Highway 7, 52 | | | south of Highway 7, 7 miles northeast |
| northeast of Dew. | | | of Dew. |
| Stiff red clay | 1 | . 1 | Yellow surface sand 8 8 |
| Red and yellow clay | 2 | : 3 | Coarse yellow white sand 1 9 |
| Stiff yellow clay | 1 | 4 | Coarse brown and white sand 6 15 |
| Coarse yellow sand | 5 | 9 | Brown sand 12 27 |
| Coarse gray sand | 2 | 11 | Coarse quicksand 27 |
| Coarse gray and yellow sand | 1 | 12 | No water sample collected. May 6, 1936. |
| Coarse gray sand | 1 | 13 | |
| Gray and yellow sandy clay | 4 | 17 | Well 666 |
| Gray clay and sand | ī | 18 | Hillside, L. R. Boyd tract near Turling |
| Coarse gray and yellow sand | 4 | 22 | ton road, 4-3/4 miles east of Dew. |
| Coarse yellow sand | 2 | 24 | Brown surface sand 2 2 |
| Coarse gray sand | 4 | 28 | Brown sandy clay 2 4 |
| Coarse gray and yellow sand | 2 | 30 | Coarse yellow sand 10 14 |
| - • | | , | (Continued on next page) |
| | | | , |

| rogs of w. r. A. tes | r Meliz i | n Freestone CountyContinued | |
|---|----------------|---|-----------------|
| Thickness (feet) | | Thickness (feet) | Depth (feet) |
| Well 666Continued | | Well 673Continued | |
| Coarse white sand 14 | 28 | Fine yellow sand 1 | 8 |
| Coarse yellow and white sand 1 | 29 | Fine orange sand | , 9 |
| No water sample collected. Apr. 2 | | Red sandy clay | 10 |
| | , 2000 | Yellow sandy clay | 11 |
| Well 669 | | Orange sandy clay 2 | 13 |
| Side of draw, A. C. Anderson trac | t near | Fine brown and yellow sand 4 | 17 |
| Lanely road, $3\frac{1}{4}$ miles east of Dew | | Brown gravelly sand | 18 |
| Coarse yellow sand 1 | 1 | Coarse white sand 13 | 31 |
| Coarse orange sand 1 | 2 | Coarse yellow sand 3 | 34 |
| Red clay and sand | 3 | Coarse yellow and white sand 5 | 39 |
| Red and white sandy clay | 4 | Coarse orange sand | 40 |
| Red sandy clay | 5 | Coarse yellow sand 5 | 45 |
| Yellow sandy clay 4 | 9 | No water sample collected. May 18 | |
| Purple sandy clay 2 | 11 | No water sample collected; May 10 | , 1000 |
| Iron ore rock | 11 | Well 674 | |
| No water sample collected. Apr. 29 | 1 | Hillside, O. W. Killian tract nea | * |
| No waster Sample Collected, Apr. 5. | 1300 | Buffalo road, 4-3/4 miles east of | |
| Well 671 | | Yellow gravel and sand | _ |
| Hillside, M. E. Gehrels tract near | m 014 | Red clay and sand 2 | 1 3 |
| Buffalo road, 3 miles east of Dew | | | 4 |
| | 1 - | I di più dia, chi bana | 11 |
| Coarse yellow sand 1 Yellow sandy clay 1 | 1 2 | Yellow clay and sand 7 Fine salmon colored sand 1 | 12 |
| Stiff yellow clay | 3 | | 15 |
| v | 1 | V | 17 |
| • • | 8 | | 18 |
| | 10 | 1 200 00 00 00 00 | : |
| | 14 | Salmon colored silty sand 1 | 19 |
| Gray joint clay | 15 | Yellow and white silty sand 3 | 22 |
| Black soapstone | 16 | White clay and sand 2 | 24 |
| Gray sandy clay 5 | 21 | Yellow clay and sand | 25 |
| Hard red sand rock | 21 | Yellow silty sand 4 | 29 |
| No water sample collected. May 18 | 1936 | White clay and sand 1 | 30 |
| | | Yellow silty sand 1 | 31 |
| Well 672 | | White clay and sand 1 | 32 |
| Hillside, G. Parrish tract near H | ighwa y | Struck water (seep) at 18 feet. | |
| 75, 2 miles south of Dew. | 1 _ | Struck water at 20 feet. | |
| Yellow surface sand 1 | 1 | No water sample collected. Apr. 2 | 9, 1936 |
| Red sandy clay 2 | 3 | | |
| Red and yellow sandy clay 2 | 5 | Well 678 | |
| Red clay and sand 1 | 6 | Edge of draw, E. Goodwin tract ne | |
| Coarse yellow sand 8 | 14 | Cakwood road, 6 miles east of Dew | • |
| Black yellow sand 2 | 16 | Brown surface sand 1 | , 1 |
| Gray sandy soaps tone 2 | 18 | Coarse red sand 3 | 4 |
| Yellow sand and gray soapstone l | 19 | Red gravel and sand 5 | 9 |
| Gray soapstone 1 | 20 | Red clay and sand 4 | 13 |
| Gray and yellow soapstone 1 | 21 | Caving | 13 |
| Gray cley and sand 2 | 23 | Struck seep water at 7 feet. | i |
| Iron ore rock | 23 | Water sample collected. Apr. 30, | 1936 |
| No water sample collected. Apr. 2 | , 1936 | | |
| | | Well 680 | |
| Well 673 | | Hillside, J. B. Parker tract nea | r Oak- |
| Hillside, F. E. Hill tract near of | ld | wood road, $9\frac{1}{2}$ miles east of Dew. | |
| Buffalo road, $4\frac{1}{4}$ miles southeast | of Dew. | Brown surface sand 1 | 1 |
| Orange sandy clay 3 | 3 | Coarse yellow sand 1 | 2 |
| Red clay and sand | 4 | Yellow clay and sand 1 | 3 |
| Red and yellow sandy clay 2 | 6 | Red sandy clay 2 | 5 |
| Orange sand 1 | 7 | Red clay and sand 1 | 6 |
| . | | (Continued on next page) | |
| | | (- allowither at Hour back) | |

| | | | n Freestone CountyContinue | | |
|---|----------------|--------------|--|-------------------|-------------------|
| | kness Ceet) | Depth (feet) | Tn | icknes: (feet) | s Depth (feet) |
| Well 680continue | d | | Well 689Contin | ued | |
| Orange clay and sand | 5 | . 11 | Coarse yellow sand | 5 | 25 |
| Brown clay and sand | 6 | 17 | Coarse gray sand | 9 | 34 |
| Coarse red sand | 1 | 18 | No water sample collected. | June 4 | |
| Brown clay and sand | ì | 19 | | | |
| Coarse brown and yellow sand | 1 | 20 | Well 690 | | |
| Coarse black and yellow sand | 2 | 22 | Flat, J. H. Johnson tract | near B | uffalo |
| Coarse black and brown sand | 1 | 23 | road, $5\frac{1}{2}$ miles east of Dew | | |
| Black sandy shale | 4 | 27 | Brown surface sand | 2 | 2 |
| Hard shale | | 27 | Yellow silty sand | 1 | 3 |
| No water sample collected. Ju | ine 3. | , | Red and yellow sandy clay | ì | 4 |
| | | | Red and yellow silty sand | 2 | 6 |
| Well 684 | | • | Red sandy clay | 4 | 10 |
| Flat, L. Jordan tract near Os | kwood | road. | Red and white sandy clay | 2 | 12 |
| 8 miles east of Dew. | | | Stiff yellow and white cla | | 13 |
| White surface sand | ı ' | 1 | Coarse white sand | 1 | 14 |
| Stiff red clay | 2 | 3 | Coarse orange sand | ī | 15 |
| Stiff yellow clay | 1 | 4 | Yellow and white sandy cla | | 17 |
| Yellow sandy clay | 3 | 7 | Thite sandy clay | , | 18 |
| Gray and yellow sandy clay | 3 | 10 | Yellow sandy clay | ī | 19 |
| Gray silty sand | 3 | 13 | Gray sandy clay | 3 | 22 |
| Gray water sand | i | 14 | Coarse yellow sand | ĺ | 23 |
| Purple and yellow silty sand | 2 | 16 | Purple and yellow silty se | | 25 |
| Gray clay and sand | 3 | 19 | Gray and yellow silty sand | | 26 |
| Stiff blue clay | 3 | 22 | Purple and yellow silty sa | | 29 |
| Blue sandy clay | 3 | 25 | Coarse yellow sand | 1 | 30 |
| Struck water at 14 feet. | - ! | | No water sample collected. | Apr. | |
| Water sample collected. Apr. | 30. 1 | 936 | | | |
| | | | Well 694 | | |
| Well 685 | | | Gentle slope, E. E. Willif | | |
| Flat, Jim Jones tract, H. C. | Stagn | er | Buffalo road, 6 miles sout | heast (| of Dew. |
| Survey, 8 miles east of Dew. | į | | Red sandy clay | 1 | 1 |
| Coarse brown sand | 7 | 7 | Stiff red clay | 1 | 2 |
| Orange sandy clay | 4 | 11 | Stiff gray clay | 3 | 5 |
| Coarse yellow sand | 4 | 15 | Coarse yellow sand | 2 | 7 |
| Coarse white sand | 4 | 19 | Yellow sandy clay | 1 | 8 |
| Coarse yellow sand | 2 | 21 | Coarse yellow sand | 1 | 9 |
| Coarse white sand | 2 | 23 | Gray sandy clay | 2 | 11 |
| Coarse yellow sand | 10 | 33 | Gray clay and sand | 1 | 12 |
| Struck water at 31 feet. | : | | Purple sandy clay | 1 | 13 |
| Water sample collected. June | 4, 19 | 36 | Coarse gray sand | 4 | 17 |
| | | | Purple and yellow sandy cl | ay l | 18 |
| Well 689 | | 1 | Coarse purple and brown sa | nd 2 | 20 |
| Gentle slope, C. Q. Johnson t | ract, | 7 | Struck water at 15 feet. | | |
| miles east of Dew. | | 1 | Water sample collected. Ap | r. 30, | 1936 |
| Yellow surface sand | 1 : | 1 | | | |
| Red and yellow sandy clay | 2 | 3 | Well 695 | | |
| Stiff red and yellow clay | 1 | 4 | Hillside, E. L. Smith trac | t near | High- |
| Stiff red clay | 2 | 6 | way 75, 4 miles south of I | ew. | _ |
| Red and white sandy clay | 5 | 11 | Brown surface sand | 3 ; | 3 |
| Gray sandy clay | 1 | 12 | Coarse yellow sand | 4 | 7 |
| Brown clay and sand | 1 | 13 | Coarse white sand | 1 | 8 |
| | | 14 | Yellow quicksand | 8 | 16 |
| | 1 | الخسفسا | | | |
| Orange clay and sand | 1 | 15 | Struck water at 85 feet. | | |
| Orange clay and sand Coarse yellow sand | 1 3 | 1 | Struck water at $8\frac{1}{2}$ feet. No water sample collected. | Apr. | 2, 1936 |
| Orange clay and sand Coarse yellow sand Brown clay and sand | 1 | 15 | Struck water at $8\frac{1}{2}$ feet. No water sample collected. | Apr. | 2, 1936 |
| Orange clay and sand Coarse yellow sand | 1 3 | 15 18 | | Apr. | 2, 1936 |

| | | Depth (feet) | Thickness Dep (feet) (fe | _ |
|--|---------------|-----------------|---|---|
| | · · · · · | (1000) | | <u>,c </u> |
| Hillside, W. D. Stafford trac | . 1 | | Well 700 | • |
| south of Morehr Craims Coni | U 4 | mire | Hilltop, D. Brown tract, W. L. Bensor | i |
| south of Marshy Springs, 6 mileast of Dew. | tes s | outn- | Survey, 9 miles southeast of Dew. | 3 6 |
| | - | | Coarse yellow sand | 15 |
| Yellow surface sand | 1 | 1 | Red and yellow sand 8 | 23 |
| Red clay and sand | 4 | 5 | Yellow sand | 24 |
| Coarse yellow sand | 2 | 7 | Red and yellow sand 3 | 27 |
| Coarse gray sand | 11 | 18 | Coarse red sand 7 | 34 |
| Fine white sand | 1 | 19 | No water sample collected. June 4, 19 |) 36 |
| Fine yellow sand | 4 | 23. | | |
| Fine white sand | 6 | 29 | Well 701 | |
| No water sample collected. Apr | r. 2, | 1936 | Hillside, J. S. Graham tract, near | |
| | | | Buffalo road, 8 miles southeast of De | ew |
| Well 697 | | | White surface sand 1 | 1 |
| Gentle slope, N. Ezell tract, | 를 mi | le | Gray sandy clay 2 | 3 |
| east of Highway 75, 62 miles | | | Gray and red sandy clay 2 | 5 |
| of Dew. | | • | Gray and yellow sandy clay 2 | 7 |
| Brown surface sand | 1 | 1 | Gray sandy clay | 8 |
| Orange clay and sand | ī | 2 | Brown sandy clay 3 | 11 |
| Red sandy clay | ī | 3 | Yellow clay and sand 3 | 14 |
| Orange clay and sand | 2 | 5 | Yellow silty sand | 15 |
| Coarse orange sand | 5 | 10 | Brown gravel and sand 1 | 16 |
| Coarse brown sand | 8 | 18 | Yellow silty sand | 17 |
| Brown gravel and sand | 4 | 22 | | 18 |
| ~ | | 1 | | 19 |
| Yellow gravel and sand | 2 | 24 | Gray gravel and sand 1 Coerse vellow sand 1 | |
| Brown gravel | 1 | 25 | | 20 |
| Grey water sand | 2 | 27 | Iron ore rock | 20 |
| Struck water et 23 feet. | | | No water sample collected. Apr. 30, 1 | 1936 |
| Water sample collected. May 18 | 3 , 19 | 36 | | |
| | | | Well 702 | _ |
| Well 698 | | | Hilltop, T. M. Goodson tract, 1/2 mil | |
| Hilltop, T. E. Bently tract ne | | uffalo | north of county line near Highway 75, | , |
| road, 7 miles southeast of Dev | v . | | 8 miles southeast of Dew. | |
| Brown surface sand | 1 | : 1 | Stiff yellow clay 2 | 2 |
| Stiff red clay | 2 | 3 | Gray and yellow sandy clay 2 | 4 |
| Yellow sandy clay | 2 | 5 | Coarse yellow sand | 5 |
| Yellow clay and sand | 3 | ! 8 | Coarse white sand 5 | 10 |
| Yellow silty sand | 3 | 11 | Brown iron ore sand | 11 |
| White and yellow silty sand | 7 | 18 | Yellow clay and sand 2 | 13 |
| White packed sand | 5 | 23 | Fine yellow sand 2 | 15 |
| White and yellow packed sand | ì | 24 | Fine red and gray sand 5 | 20 |
| Hard packed sand | - | 24 | Fine gray and yellow send 1 | 21 |
| - | - ZO | | Coarse brown sand | 22 |
| No water sample collected. App | r. 30 | , 1900 | | 23 |
| FT. 33 COO | | | | |
| Well 699 | | _21 - | Fine yellow sand | 24 25 |
| Gentle slope, Franz Thiele tre | | | Brown iron ore sand 1 | |
| north of county line, T. C. Ri | k. Su | rvey, | Fine white sand | 26 |
| $8\frac{1}{2}$ miles east of Dew. | _ | | Fine yellow sand | 27 |
| Coarse yellow sand | 6 | 6 | Fine brown sand | 28 |
| Coarse white sand | 2 | 8 | Fine yellow sand | 29 |
| White quicksand | 2 | 10 | No water sample collected. Mar. 27, 1 | 1936 |
| Ceving | | 10 | | |

Struck water at 9 feet.

No water sample collected. June 4, 1935

| m) - January Down | h Thickness Depth |
|--|---|
| Thickness Dept (feet) (fee | |
| | |
| Well 800 | Well 804 |
| Gentle slope near hilltop, E. Mixon | Level land, near creek bottoms, J. |
| tract, 3-3/4 miles west of Teague. | Hagans tract, 1-3/4 miles west of |
| Red clay and sand 2 | 2 Teague. |
| Red and gray clay | 3 Yellow sand 5 5 |
| Gray and yellow sandy clay 1 Gray soapstone 2 | 4 Yellow and gray clay 4 9 6 Yellow sand 2 11 |
| | 7077011 00770 |
| 77 | |
| ** | No water sample collected. Mar. 6, 1936 |
| - · · · · · · · · · · · · · · · · · · · | 4 |
| No water sample collected. Feb. 28, 19 | Well 805 |
| no water sample collected, Feb. 20, 19 | 36 Gentle slope, 3/4 mile from R. R. tracks in Teague, 25 yards east of city limits |
| Well 801 | on highway to Dew, 1-3/4 miles east of |
| Creek bottoms, A. Dobbins tract, 3-3/4 | On algaway to bew, 1-5/4 miles east of |
| miles southwest of Teague. | Teague. Brown sand 1 1 |
| The same of the sa | |
| | l Red and yellow sandy clay 1 2 2 3 3 3 3 |
| | 4 Grayish-yellow sandy clay 2 5 |
| | 4 Gray and yellow sandy clay 2 7 |
| Struck water at 5 feet. | Gray and yellow sand 1 8 |
| No water sample collected. Feb. 28, 19 | |
| The state of the s | Gray and yellow sand 4 13 |
| Well 802 | Gray and yellow clay and |
| Level land, L. Davis tract, 2 miles | sand 1 14 |
| southwest of Teague. | Yellow clay and sand 1 15 |
| | l Purplish-yellow clay and |
| Gray and yellow sand | 2 sand 3 18 |
| Gray sandy clay 2 | 4 Gray and yellow sandy clay 2 20 |
| Gray clay | 5 Purple and yellow sandy clay 2 22 |
| Gray sandy clay | 6 Gray and yellow sandy clay 3 25 |
| Yellow clay and sand 6 1 | |
| | 3 Struck water at 20 feet. |
| | 6 Water level, 19.1 feet below top of |
| Yellow silty sand 6 2 | 2 ground, $\frac{1}{4}$ hour after hole completed. |
| | 4 No water sample collected. Feb. 19, 1936 |
| Gray silty sand 5 2 | 9 |
| Struck water at 26 feet. | Well 807 |
| Water level, 20.2 feet below top of | Gentle slope, Jim Roger tract, on side |
| ground, 24 hours after hole completed. | |
| Water sample collected. Feb. 27, 1936 | miles east of Teague. |
| | Yellow sand 1 1 |
| Well 803 | Yellow and gray sandy clay 2 3 |
| Hilltop, on side of county road, 1-3/4 | |
| miles southwest of Teague. | Gray and brown sandy clay 1 6 |
| Gray sand | 1 Gray and yellow sandy clay 9 15 |
| Brown sandy clay | 2 Gray packed sand 3 18 |
| Gray sandy clay 2 | 4 White sand 1 19 |
| Yellow sand | 5 Yellow sand and gray clay 1 20 |
| Yellow elay and sand | 6 Yellow and gray sand 3 23 8 Gray clay and sand 4 27 |
| Gray soapstone 2 | |
| Rock | - I |
| No water sample collected. Feb. 27, 19 | No water sample collected. Feb. 3, 1936 |

| 2000 01 11 1 1 | , 001 | , 00118 | 11008 00110 0 | ouncyconstitue | · · | |
|---|----------------|-----------|------------------------------|-----------------|----------|--------|
| | | Depth | | Tì | hickness | |
| (f | eet) | (feet) | | | (feet) | (feet) |
| Well 809 | | | | Well 818 | _ | |
| Edge of draw, on side of roas | 100 | yards | Level land, | Tex Hullum tra | ct, 4글 m | iles |
| north of Highway 7, w miles i | north | neast of | east of Teag | ue. | | |
| Teague. | | | Brown sand | | 2 | 2 |
| Red and gray clay | 1 | 1 | Yellow sand | | 1 | 3 |
| Gray and yellow sandy clay | 3 | 4 | Yellow clay | | 1 | 4 |
| Gray clay | 2 | E | | ow sandy clay | 2 | 6 |
| Yellow clay | 1 | 7 | Yellow and g | ray sand | 4 | 10 |
| Gray clay | 1 | 8 | Yellow sand | 77 3 | 1 | 11 12 |
| Sticky gray and yellow clay Stiff and sticky gray clay | 5 | 13 | Brown and ye | | 1 3 | 15 |
| Gray and yellow sandy clay | 5 | 18 | Yellow silty | | 1 | 16 |
| Gray clay | 3 1 | 21 22 | Gray silty s Yellow silty | | 7 | 23 |
| Brown and red clay | 1 | 23 | Rock | sanu | r | 23 |
| Lignite and water | i | 24 | | at 12 feet. | | 50 |
| Water level, 13.3 feet below | | | | 12.0 feet bel | ow top o | f |
| ground, 23 hours after hole | | | ground \frac{1}{2} ho | ur after hole | complete | d. |
| Water sample collected. Feb. | נקוונט. ר ו | 936 | Water sample | collected. Ma | r. 13. 1 | 936 |
| | | | Water Bampre | OOTTOO OOG Pea | | |
| Well 812 | | , | | Well 819 | | , |
| Hilltop, C. D. Lindsey tract | , 3~3 | 3/4 mile: | | R. French tra | ct, 2-3/ | 4 |
| northeast of Teague. | _ | 1 | miles east o | f Teague. | _ | 1 _ |
| Black sandy soil | 1 | 1 | Yellow sand | _ | 5 | 5 |
| Yellow and sticky sandy clay | 2 | 3 | Red and yell | | 2 | 7 |
| White and red clay and sand | 2 | 5 | Gray and red | sand | 1 | 8 |
| White and yellow sandy clay | 2 | 7 | Yellow sand | | 2 | 10 |
| Fine, dry, white sand | 2 2 | 9 | Gray sand | | 1 | 15 |
| Fine, dry, yellow sand | | 11 | Yellow sand | ۹ | 4 1 | 16 |
| Dry white send and clay | 1 3 | 12 15 | Gray sandy c | • | 4 | 20 |
| Fine, dry, yellow sand Red, yellow, and white sandy | ð | 15 | Gray clay an Stiff yellow | | 5 | 25 |
| clay | 2 | 17 | Struck water | • | Ū | ~0 |
| Damp gray sand | ĩ | 18 | | 7.1 feet below | w ton of | . ! |
| Damp gray sandy clay | î | 19 | ground 1 ho | ur after hole | complete | d. |
| Gray and yellow sand | ī | 20 | | collected. Ma | | |
| Gray and yellow sendy clay | 3 | 23 | | | | |
| Yellow silty micaceous sand | 1 | 24 | | Well 822 | | |
| Gray and yellow sandy clay | 2 | 26 | Edge of draw | W. A. McKee | tract, 2 | 0 |
| Gray sand and clay | 2 | 28 | yards north | of highway cul | vert, on | road |
| Gray and yellow silty sand | 6 | 34 | | iles east of T | | |
| Water level, 26.2 feet below | top | of | Brown sandy | clay | 2 | 2 |
| ground, 3 hours after hole co | | | Brown clay a | nd sand | 1 | 3 |
| Mater sample collected. Jan. | 31, | 1936. | | ray sandy clay | | 6 |
| | | | Coarse gray | | 3 | 9 |
| <u>Well 816</u> | | , | | low sandy clay | | 16 |
| Gentle slope, on side of High | hway | 7,4章 | Gray and yel | | 6 | 22 |
| miles northeast of Teague. | _ | i _ | Gray silty s | | 7 | 29 |
| Yellow clay and sand | 2 | 2 | | at 24 feet. | | |
| Stiff grey sandy clay | 5 | 7 | | 23.8 feet bel | | |
| Yellow clay and sand | 1 | 8 | | ours after hol | _ | |
| Gray sandy clay | 2 | 10 | water sample | collected. Fe | D. 5, 19 | ან. |
| Gravel and yellow clay | 6 | 16 | | MI-11 000 | | |
| Yellow sandy clay | 1 | 17 | Contlo ales- | Well 823 | ood 21 | mil.~ |
| Gray and yellow sandy clay | 10 2 | 27 29 | Gentie slope southeast of | , on side of r | oeu, 24 | mrres |
| Gray and sand Yellow sandy clay | 1 | 30 | Yellow sand | ıcague• | 1 | 1 |
| Struck water at 27 feet. | T | 30 | | llow sandy clay | . 1 | 2 |
| Water level, 20,2 feet below | ton | of | Red and gray | | 3 | 5 5 |
| ground, 19 hours after hole | | | Red and gray | | 7 | 12 |
| Tater sample collected. Jan. | | | , | nued on next p | | ±~ |
| - sor bembro dorreo den dans | U⊥ . | # U U U | (001101 | made on none p | ~no; / | |

| Thick | ness | Depth | Thickne | ss Dept |
|-------------------------------|-------|-------------|--|---------|
| | et) | (feet) | (feet |) (fee |
| Well 823Continue | đ | • | Well 832 | |
| Gray and yellow sand | _1 | 13 | Gentle slope near hilltop, on ro | ad to |
| Silty gray water send | 11 | 24 | Cedar, 4 miles south of Teague. | |
| Stiff, purple sandy clay | 5 | 29 | Yellow sandy clay 2 | t |
| Struck water at 12 feet. | | • | Gray clay 2 | 1 |
| No water sample collected. Fe | b. 1 | 0.1936 | Gray sandy clay | |
| | | | Decayed vegetation 1 | |
| Well 825 | | | Gray sandy clay 1 | |
| Creek bottoms, H. C. McMichae | l tr | act. | Yellow clay and sand 1 | |
| 21 miles south of Teague. | | l | Yellow sand 5 | 1 |
| Yellow sand | 5 | 5 | Yellow clay and sand 2 | 1 |
| Yellow quicksand | 6 | 11 | Gray and yellow clay 1 | 1 |
| Quicksand | | 11 | Gray soapstone 3 | 1 |
| Struck water at 6 feet. | | | Gray sandy soapstone 5 | 2 |
| No water sample collected. Fe | b. 1 | 0. 1936 | Yellow soapstone and sand 1 | 2 |
| | | | Yellow sands tone 1 | 2 |
| Well 826 | | | No water sample collected. Feb. | 27, 193 |
| Edge of shallow draw, on side | of | roed | | |
| to Donie, la miles south of T | 'eagu | €₄ | Well 834 | |
| Brown sand | 1 | 1 | Gentle slope, near hilltop, on s | ide of |
| Brown clay and sand | 1 | 2 | $ r$ cad to Donie, $4\frac{1}{4}$ miles south of | Teague |
| Gray sandy clay | 2 | 4 | Brown sand | |
| Gray and yellow sandy clay | 2 | 6 | Yellow clay and sand 1 | |
| Purple and yellow sandy clay | | | Gray sandy clay 1 | i |
| lignite | 1 | 7 | Gray and yellow sandy clay 3 | 1 |
| Gray sandy clay | 1 | 8 | Yellow sand 1 | 1 |
| Gray and yellow sandy clay | 3 | 11 | Gray clay and sand 3 | ' 1 |
| Gray and yellow sand | 4 | 15 | 'Gray and yellow sand 3 | 1 |
| Gray silty sand | 6 | 21 | Yellow clay and sand 3 | 1 |
| Yellow sand | 1 | 22 | Rock | 1 |
| Purplish-brown clay and sand | 1 | 23 | Struck water at 12 feet. | |
| Black packed sand | 2 | 25 | Water level, 13.7 feet below top | of |
| Struck water at 12 feet. | | | ground, 🕯 hour after hole comple | |
| Water level, 7.2 feet below t | op o | f | :Water sample collected. Feb. 21, | 1936 |
| ground, 48 hours after hole c | ompl | eted. | | |
| Water sample collected. Feb. | 21, | 1936 | Well 838 | |
| | | | Gentle slope, J. B. Washburn tra | ct on |
| Well 831 | | 1 | side rode, 300 yards east of RR. | |
| Gentle slope near hilltop, on | sid | e of | 3-3/4 miles south of Teague. | |
| road to Donie, 3 miles south | of T | eague. | Yellow sand | f |
| Brown sand | 1 | 1 | Yellow clay and sand 2 | † |
| Red and yellow clsy and sand | 3 | 4 | Red and gray sandy clay 5 | |
| Red and gray clay and sand | 2 | 6 | Gray and yellow sand 6 | 1 |
| Gray and yellow sand | 2 | 8 | Gray quicksand 12 | 2 |
| Gray and yellow sandy clay | 5 | 13 | Struck water at 14 feet. | |
| Gray and yellow sand | 2 | 15 | Water le vel, 13.2 feet below top | |
| Gray silty sand | 1 | 16 | ground, 48 hours after hole comp | |
| Gray and yellow sand | 4 | 20 | Water sample collected. Feb. 10, | 1936 |
| Fine yellow sand | 3 | 23 | | |
| Gray clay and sand | 1 | 24 | Well 840 | |
| Gray packed sand | 1 | 25 | Gentle slope, J. B. Washburn tra | et, |
| Fine yellow sand | 4 | 29 | 3-3/4 miles southeast of Teague. | (|
| | h 2 | 1. 1936 | Stiff dark brown and red sandy | į |
| No water sample collected. Fe | U. a. | 1000 | Dozza dosta or our time to a control | , |
| No water sample collected, re | υ• ω. | 1, 1000 | clay 2 | i |

| Thickness Dept (feet) (fee | |
|--|--|
| Well 840Continued | Well 848Continued |
| Brown sandy clay 2 | Yellow sand 2 6 |
| Gray and yellow sandy clay 3 | Gray sand 2 8 |
| Fine brown sand | Gray clay and sand 5 13 |
| 179 · | Gray sand 1 14 |
| Fine yellow sand 20 2 | |
| No water sample collected. Feb. 11, 193 | Gray silty sand 1 17 |
| | Purple sand 2 19 |
| Well 843 | Gray water sand 10 29 |
| Creek bottoms, T. G. Blackman, 31 miles | Struck water at 20 feet. |
| southeast of Teague. | Water level, 13.0 feet below top of |
| Yellow sand | ground, $\frac{1}{4}$ hour after hole completed. |
| Red and gray sandy clay 2 | Water sample collected. Mar. 13, 1936 |
| ~ • • | 5 |
| Silty gray sand 14 1 | |
| Purplish-gray sand 1 2 | |
| Gray silty sand 5 2. | 11 |
| Struck water at 6 feet. | Brown sand 1 1 |
| Water level, 4.2 feet below top of | Red sandy clay 2 3 |
| ground, 17 hours after hole completed | Red clay 1 4 |
| No water sample collected. Feb. 10, 1930 | |
| | Orange sand 1 7 |
| Well 845 | Fine yellow sand 12 19 |
| Gentle slope, E. O. Cassin tract, 4 mile | s Yellow sand and iron ore |
| east of Teague. | gravel 2 21 |
| | Yellow sandy clay 1 22 |
| | Yellow water sand 7 29 |
| Yellow sand 6 1 | 1 1 |
| Gray sand 1 1. | |
| Fine yellow sand 15 2 | 110 |
| Struck water at 25 feet. | Water semple collected. Mar. 12, 1936 |
| Water level, 22.8 feet below top of | |
| ground, 48 hours after hole completed. | Well 856 |
| Water sample collected. Feb. 11, 1936 | Gentle slope, D. Daniels tract, 25 |
| ** ** * * * * * * * * * * * * * * * * * | yards north of Dew highway, 5½ miles |
| Well 846 | east of Teague. |
| Gentle slope, near edge of draw, on sid | |
| of highway, 3-3/4 miles east of Teague. | Stiff gray and yellow sandy |
| | clay 1 5 |
| | Gray and yellow sandy clay 11 16 |
| , | Gray sandy clay 3 19 |
| Gray and yellow sandy clay 4 1 | 1 1 |
| Gray and yellow silty sand 4 1 | |
| Gray and yellow sandy clay 2 1 | 1) |
| Black and yellow sandy clay 3 2 | |
| Gray and yellow sandy clay 4 2 | |
| Struck water at 14 feet. | ground, 3 hours after hole completed. |
| Water level, 2.2 feet below top of | Water sample collected. Feb. 7, 1936 |
| ground, 48 hours after hole completed. | W 17 OFF |
| Water sample collected. Feb. 5, 1936. | Well 857 |
| | Gentle slope, corner at intersection |
| ₩ell 848 | at side road and highway, 7 miles east |
| Hillside, R. A. Pickett tract, 4-3/4 | of Teague. |
| miles east of Teague. | Yellow sand 1 1 |
| | Yellow sandy clay 3 4 |
| Red sandy clay | Gray and yellow sandy clay 2 6 |
| , | |
| · · · · · · · · · · · · · · · · · · · | Gray and yellow sand and clay 3 9 (Continued on next page) |

| | | Depth | t contract the second contract to the second | ss Depth |
|--|---------------------|----------|---|--|
| (1 | eet) | (feet) | (feet |) (feet) |
| Well 857Continu | aed | i | Well 868Continued | |
| Gray sandy clay | 1 | 10 | Brown clay and sand 1 | _ 11 |
| Gray and yellow sandy clay | 2 | 12 | Gray clay and sand 3 | 14 |
| Yellow clay and sand | 1 | 13 | Gray sandy ccapstone 2 | 16 |
| Gray and yellow sandy clay | 3 | 16 | Gray and brown soapstone 2 | 18 |
| Sticky brown sand | 1 | 17 | Brown sandy soapstone | 19 |
| Spongy lignite | 1 | , 18 | Gray clay and sand 2 | 21 |
| Brownish-purple clay | 1 | 19 | Coarse yellow sand | |
| Gray silty sand | 9 | 28 | Coarse brown sand | 26 |
| Struck water at 24 feet. | | | Gray and yellow sand 8 | 34 |
| Water level, 21.0 feet below | , top o | oi' | Struck water at 30 feet. | 1020 |
| ground, 48 hours after hole | compre | eted. | Water sample collected. May 11, | 1936. |
| Water sample collected. Feb. | , /, 1 | 136. | Well 869 | |
| Well 862 | | | | '/ milo |
| Gentle slope, Bill Moore tra | at D | Amond | Hilltop, J. E. Gregory tract, 1/east of county line, 32 miles we | |
| Survey, 7 miles east of Teag | tuo | . HASH C | Freestone. | 80 01 |
| Brown surface sand | 3 1 | 1 | Stiff red cley | , 1 |
| Stiff yellow sandy clay | 2 | 3 | Red sandy clay | |
| Brown sandy clay | 2 | 5 | Fine salmon-colored sand 2 | 1 |
| Brown and yellow sand and cl | | 6 | Fine yellow sand 4 | 1 |
| Coerse yellow sand | | 11 | Gray sandy clay | į. |
| Gray silty sand | 5 | 16 | Yellow sandy clay | 1 |
| Gray clay and sand | 2 | 18 | Gray soapstone 10 | i |
| Damp, sticky, gray clay | 5 | 23 | Black soapstone 2 | |
| Black soapstone | 2 | 25 | Blue packed sand 2 | 30 |
| No water sample collected. M | Mar. 24 | | Hard packed sand | ' 30 |
| 4 | | | No water sample collected. May 1 | 1, 1936 |
| Well 864 | . 7 | | | |
| Hillside, B. L. Seely tract, | , 4 4 mi | iles | Well 870 | |
| southeast of Teague. | _ | 1 - 1 | Hillside, C. J. Martin Estate ne | |
| Brown sand | 1 | 1 | Providence road, J. L. Chavert S | |
| Red sandy clay | 2 | 3 | 2½ miles southwest of Freestone. | |
| Yellow sandy clay | 2 | 5 | Red sandy clay Salmon-colored clay and sand 2 | , |
| Gray sandy clay Yellow sand | 1 5 | 6 | | |
| White silty sand | 1 | 11 12 | | |
| Yellow sand | 6 | 18 | Coarse yellow sand 1 Coarse gray and yellow sand 5 | 1 |
| Brown clay and sand | 3 | 21 | Yellow sand 5 | 1 |
| Purple sandy clay | ı | 22 | Gray soapstone 1 | i |
| Yellow clay and sand | 4 | 26 | Hard soapstone | 19 |
| Yellow sand | ž | 28 | Struck water at 10 feet. | 20 |
| Blue soapstone | ž | 30 | Water sample collected. May 11. | 1936. |
| Struck water at 28 feet. | ~ | | madel Bample Bolled Boat 122 g | |
| Water level, 28.8 feet below | v top | of | Well 871 | |
| ground, \frac{1}{4} hour after hole co | | | Flat, M. Savage tract, 12 miles | west of |
| Water sample collected. Mar. | | | Freestone. | |
| | | | Red sandy clay 4 | 1 4 |
| Well 868 | | | Dark brown sand 2 | 6 |
| Hilltop, Lee Carter tract, I | R. B. 0 | Filliam | Light brown sand 1 | 7 |
| Survey, $5\frac{1}{2}$ miles south of Te | eague. | | Yellow silty sand 11 | 18 |
| Red and white sandy clay | 3 | 3 | Gray silty sand 8 | 26 |
| Coarse gray and yellow sand | 2 | 5 | Gray and yellow sand 3 | 29 |
| Coarse brown sand | 1 | 6 | Struck water at 27 feet. | 1 |
| Coarse yellow sand | 1 | 7 | Water level, 26.4 feet below top | of |
| Brown gravel and sand | 1 | 8 | ground, 5 hours after hole compl | |
| Gray clay and sand | 2 | 10 | Water sample collected. Feb. 24, | |
| • | | | | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, |

| _ | | | In Frees tone County-Continued | | |
|--|--------------|-------------------|-----------------------------------|---------------|-----------------|
| _ | | s Depth (feet) | | kness eet) | Depth (feet) |
| Well 876 | | ! | Well 886Contin | ued | ; |
| Creek bottoms, John Epps tra | ct. | 를 mile ' | Coarse brown sand | 1 | 6 |
| northeast of Freestone. | , | ~ | Gray clay and sand | 1 | 7 |
| Brown sand | 2 | 2 | Coarse yellow sand | ī | 8 |
| Yellow sand | 1 | 3 | Fine gray sand | 2 | 1 10 |
| Red and yellow clay and sand | | 6 | Fine yellow sand | 2 | 12 |
| Gray and yellow sand | 1 | 7 | Brown sand | 1 | 13 |
| White silty quicksand | 9 | 16 | Brown clay and iron ore | - | |
| Yellow quicksand | 1 | 17 | gravel | 1 | 14 |
| Struck water at 8 feet. | - | | Fine yellow sand | 4 | 18 |
| Water level, 5.4 feet below | ton | of | Fine gray sand | 2 | 20 |
| ground, $\frac{1}{4}$ hour after hole co | mnle | ted | Coarse gray sand | 5 5 | 25 |
| Water sample collected. Mar. | | | Gray sand and soaps tone | 1 | 26 |
| ma der Bampre Gorrec ded. Mar | *** | 1300 | Coarse white sand | 3 | 29 |
| Well 880 | | , | 1 | 4 | 33 |
| Hillside, W. J. Shelley trac | <u>.</u> | m*1 | Coarse yellow sand | _ | |
| northeast of Freestone. | τ, δ | miles | No water sample collected. Ma | r. 25 | , 1930 |
| Brown sand | 77 | 7 | Wr-11 900 | | |
| | 3 2 | 3 | Well 889 | 4 | |
| Red and yellow sandy clay | | 5 | Hillside, Gilliam Poindexter | | |
| Gray sandy clay | 1 | 6 | H. C. Cook Survey, 6 miles ea | St OI | rree- |
| Coarse yellow sand | 2 | 8 | stone. | - | |
| Coarse gray sand | 1 | 9 | Brown surface sand | 1 | 1 1 |
| Gray and yellow sand | 4 | 13 | Coarse yellow sand | 1 | 2 |
| Gray silty sand | 3 | 16 | Yellow sandy clay | 2 | 4 |
| Brown silty sand | 3 | 19 | Red and yellow sandy clay | 4 | 8 |
| Gray sand | 4 | 23 | Yellow sandy clay | 2 | 10 |
| Yellow sand | 2 | 25 | Yellow sand | 9 | 19 |
| Struck water at 19 feet. | | _ | Gray sandy clay | 1 | 20 |
| Water level, 14.1 feet below | | | Yellow silty sand | 4 | 24 |
| ground, $\frac{1}{4}$ hour after hole co | | | Yellow sand and blue soap- | _ | 1 |
| Water sample collected. Mar. | 11, | 1936. | stone | 1 | 25 |
| | | | Blue sand | 1 | 26 |
| Well 883 | | | Blue sandy clay | 2 | 28 |
| Gentle slope, Al Philpott tr Moffett Survey, 32 miles nor | act, thea | J. F. st of | No water sample collected. Ma | r. 25 | , 1936 |
| Freestone. | | | Well 890 | | |
| Brown sandy clay | 2 | 2 | Hilltop, Wm. Oliver tract nea | r Bufi | falo |
| Stiff yellow clay | 2 | 4 | road, 3-3/4 miles east of Fre | estone | 9 • |
| Stiff light brown clay | 1 | 5 | Coarse yellow sand | 7 | · 7 |
| Gray and yellow sandy clay | 3 | 8 | Coarse red and yellow sand | 1 | 8 |
| Gray and yellow soapstone | 1 | 9 | Salmon-colored sand | 1 | 9 |
| Gray soapstone | 6 | 15 | Coarse red and white sand | 7 | 16 |
| Gray and yellow sandy soap | | | Coarse yellow sand | 1 | 17 |
| stone | 3 | 18 | Coarse red and yellow sand | 1 | 18 |
| Coarse yellow sand | 7 | 25 | Damp yellow sand | 3 | 21 |
| Coarse brown sand | 1 | 26 | Gray and yellow sand | 4 | 25 |
| Blæk soapstone | 2 | 28 | Brown and gray sand | ī | 26 |
| No water sample collected. M | | 1 | Damp gray sand | 6 | . 32 |
| No water Bampre Collected a | cci . | 21, 2000 | Gray clay | 1 | 33 |
| Well 886 | | 1 | No water sample collected. Ma | τ. Ř † | |
| Hilltop, Mm. Franklin tract, | H. | G. Cook | 20 ad 301 Benipto Cotton docts me | <i>y</i> | |
| Survey, 5 miles east of Free | | ! | Well 891 | | |
| Brown surface sand | - | | Hillside, J. A. Tucker tract | ทอลห | |
| | 1 | 2 | Buffalo road, 22 miles east o | | actone |
| Coarse yellow sand | 2 | 4 | Stiff red clay | | - |
| Red and yellow sandy clay | ۵ | ± : | • | ן י | 2 |
| Stiff yellow clay and gray | י | | Stiff yellow clay | 7 | 3 |
| sand | 1 | 5 | Stiff red and yellow clay | ` | ð |
| | | | (Continued on next page | 1 | |

| part . | 1 | | | |
|---|--|-----------------|---|--------------|
| | kness I | Depth (feet) | Thickness (feet) | Depth (feet) |
| | | (1690) | | (1860) |
| Well 891Continu | | _ | Well 896Continued | |
| Stiff gray clay Gray and yellow sand | 2 | 5 | Stiff bluish-gray sandy clay 1 | 29 |
| Fine gray sand | 1 | 6 | Soapstone | 29 |
| Fine purple sand | 1 2 | 7 | Struck water at 18 feet. | o. |
| Stiff purple sand | 2 | 9 11 | Water level, 14.9 feet below top of | |
| Gray clay and sand | 3 | 14 | ground, 3 hours after hole complete Water sample collected. Feb. 24, 19 | |
| Gray sand | 7 | 21 | water sample collected. red, 24, 13 | |
| Gray and yellow sand | 6 | 27 | ": Well 899 | |
| Struck water at 16 feet. | O | ~ 1 | Gentle slope, P. R. Lummus tract ne | 20 r |
| Water sample collected. May | 8. 1936 | ; | Donie road, J. L. Chavert Survey, | |
| | 0, 1000 | | miles southwest of Freestone. | 72 |
| Well 892 | | | Yellow surface sand | . 1 |
| Gentle slope, side of Donie | road. 1 | -3/4 | Stiff red and yellow clay 2 | 3 |
| miles east of Freestone. | | , , _ | Stiff gray clay 2 | 5 |
| Brown sandy clay | 1 | 1 | Gray and yellow clay and sand 2 | 7 |
| Stiff red clay | 2 | 3 | Coarse gray sand 3 | 10 |
| Brown sandy clay | 1 | 4 | Gray soapstone 1 | 11 |
| Yellow sandy clay | 3 | 7 | Coarse yellow sand 2 | 13 |
| Damp gray and yellow silty | | | Coarse gray yellow sand 2 | 15 |
| sand | 9 | 16 | Coarse brown sand | 16 |
| Yellow silty sand | 2 | 18 | Coarse gray sand 2 | 18 |
| Gray silty sand | 5 | 23 | Yellow silty sand 1 | 19 |
| Grayish-; urple silty sand | 1 ′ | 24 | Yellow clay and sand 1 | 20 |
| Stiff gray clay | 3 | 27 | Gray sandy clay | 21 |
| Struck water at 17 feet. | | | Yellow silty sand 1 | 22 |
| Water level, 13.9 feet below | | | Gray clay and sand 3 | 25 |
| ground, 5 hours after hole c | | | Grayish-purple soapstone 1 | 26 |
| Water sample collected. Mar. | 17, 18 | 936 | Coarse yellow sand 6 | 32 |
| Well 895 | | - | Struck water seep at 29 feet. | 1036 |
| Gentle slope, Doyle Tacker t | ract ne | ar | No water sample collected. May 11, | 1900 |
| Luna road, 2 miles southeast | | | Well 900 | |
| Brown sandy clay | 7 | 1 | Hillside, D. M. Worthy tract, 1,000 |) feet |
| Stiff brown clay | 2 : | 3 | south of Sanders Creek, 3 miles sou | |
| Stiff yellow clay | ĩ | 4 | Freestone. | |
| Yellow clay and sand | 2 | 6 | Gray and yellow clay and sand 1 | 1 |
| Brown clay and sand | 1 | 7 | Gray clay and yellow sand 1 | 2 |
| Gray and yellow scapstone | 3 | 10 | Gray sandy shale 2 | 4 |
| Gray soapstone | 3 | 13 | Fine white sand 5 | 9 |
| Rock | | 13 | Gray sandy shale 2 | 11 |
| No water sample collected. M | ar. 17, | 1936 | Gray sand 3 | 14 |
| | ······································ | | Gray sandy soapstone 1 | 15 |
| Well 896 | | | Gray sand 1 | 16 |
| Flat, Doyle Newsome tract ne | | e road | | 17 |
| 1-3/4 miles south of Freesto | ne. | a. | Gray end yellow sandy soap- | |
| Brown sandy clay | 2 | 2 | stone 3 | 20 |
| Brown and yellow sandy clay | 2 | 4 | Hard soapstone | 20 |
| Yellow sandy clay | 2 | 6 | No water sample collected. Feb. 24, | 1936 |
| Brown sand | 1 ; | 7 | | |
| Iron ore gravel and sand | 1 | 8 | Well 902 | |
| Yellow_sand | 1 | 9 | Gentle slope, R. Howell tract near | |
| Gray clay and sand | 2 | 11 | Teague road, 4 miles south of Frees | tone. |
| Gray and yellow silty sand | 3 | 14 | Brown sand 1 | 1 |
| Gray and brown clay and sand | | 15 | Red and yellow clay and sand 2 | 3 |
| Gray silty sand | 3 | 18 . | Red and yellow sandy clay 2 | 5 |
| Gray and yellow silty sand | 10 | 28 ; | Gray and yellow sandy clay 4 | 9 |
| | | 1 | (Continued on next page) | |

| Logs of W. P. A | • tes | t wells | in Freestone CountyContinued | | |
|--|-------------------|-----------------|--------------------------------|---------------|-----------------|
| | kness eet) | Depth (feet) | | kness eet) | Depth (feet) |
| Well 902Continu | | | Well 906 | | |
| Brown sand | <u>~~</u> , | 10 | Hilltop, F. Folsom tract near | Buff | alo |
| Stiff gray clay | ī | 11 | road, 8 miles east of Freesto | | |
| Gray sand | î | 12 | Yellow surface sand | 4 | · 4 |
| Yellow silty sand | 1 | 13 | Red clay and sand | 6 | 10 |
| Gray silty sand | 9 | 22 | Coarse red and white sand | 9 | 19 |
| Yellow sand and sandstone | 1 | 23 | Coarse yellow sand | 6 | 25 |
| Sends tone | Τ. | 23 | Coerse red and yellow sand | 3 | 28 |
| Struck water at 18 feet. | | 1 20 | Coarse salmon-colored sand, dr | - | 52 |
| Water level, 17.4 feet below | ton | of | No water sample collected. Ma | | |
| ground, 48 hours after hole | oop. Alamos | 01 | No waser sample collected. Ma | <u>y</u> _ , | 1000 |
| Water sample collected. Feb. | 52. | 1036 | Well 907 | | |
| To to! Sample Oblice ted. 160. | 20, | 1300 | Hilltop, W. T. Adkins tract n | oor R | uffel A |
| Well 903 | | | | | |
| Gentle slope, J. T. Howell to | | | road, 8 miles southeast of Fr | | , 10 |
| Luna road, 3-3/4 miles south | ract i | near | Coarse yellow sand | 10 | |
| Freestone. | east (| OT | Red clay and sand | 3 5 | 13 |
| Brown surface sand | ٠, | | Coarse red sand | | 18 |
| | 1 | 1 | Red and white sandy clay | 2 | 20 |
| Gray sandy clay | 2 | 3 | Coarse yellow sand | 1 | 21 |
| Gray clay and sand | 1 | 4 | Coarse red send | 3 | 24 |
| Coerse yellow sand | 3 | 7 | Coarse yellow sand | 3 | 27 |
| Coarse gray sand | 7 | 14 | Quicksand | | 27 |
| White silty sand | 5 | 19 | Struck water at 27 feet. | | |
| Gray silty sand | 6 | 25 | No water sample collected. Ma | y 25, | 1936. |
| No water sample collected. Me | ar. 1' | 7, 1936. | *** ** *** | | |
| *** ** ** ** | | } | Well 908 | | |
| Well 904 | _ | | Hilltop, J. W. Moody tract ne | | |
| Hillside, M. A. Webb tract n | | uffalo | school, 6 miles southeast of | _ | |
| road, $5\frac{1}{2}$ miles east of Frees | _ | | Yellow surface sand | 3 | , 3 |
| Stiff red and gray clay | 2 | 2 | Yellow clay and sand | 2 | 5 |
| Stiff yellow clay | 1 | 3 | Red and yellow clay and sand | 1 | 6 |
| Stiff brown clay | 2 | 5 | Red and white sandy clay | 4 | 10 |
| Yellow silty sand | 3 | 8 | Gray and yellow clay and sand | | 12 |
| Coarse yellow sand | 3 | 11 | Gray clay and sand | 2 | 14 |
| Yellow silty packed sand | 9 | , 20 | Gray and yellow clay and sand | | 16 |
| Hard packed sand | | 20 | Yellow clay and sand | 2 | 18 |
| No water sample collected. Me | ay 8, | 1936. | Brown sandy clay | 2 | 20 |
| | | | Struck water at 9 feet. | | |
| Well 905 | | | Water sample collected. May 2 | 5, 19 | 36. |
| Bottoms, Lou Varnell tract ne | | | | | |
| Buffalo road, 7 miles east of | f Free | estone | Well 909 | | |
| Brown surface sand | 2 | 2 | Side of draw, E. H. Sealey tr | act n | ear |
| Fine gray sand | 1 | 3 | Buffalo road, B. W. Brewer Su | rvey, | 5 |
| Fine brown sand | 1 | 4 | miles southeast of Freestone. | | |
| Yellow clay and sand | 1 | 5 | Stiff red clay | 1 | 1 |
| Red and yellow sand | 2 | 7 | Orange sandy clay | 1 | 2 |
| Fine yellow sand | 2 | 9 | Yellow clay and sand | 2 | 4 |
| Gray sandy clay | 1 | 10 | Coarse yellow sand | 4 | 8 |
| Gray soapstone | 4 | 14 | Coarse gray sand | 1 | 9 |
| Gray sandy soapstone | ī | 15 | Coarse yellow sand | 2 | 11 |
| Yellow clay and gray sand | ī | 16 | Purple clay and sand | 2 | 13 |
| Coarse gray and yellow sand | ī | 17 | Coarse yellow sand | 1 | 14 |
| Coarse white sand | 1 | 18 | Gray and yellow clay and sand | - 1 | 18 |
| Gray sandy clay | ī | 19 | Coarse gray and yellow sand | ı | 19 |
| Gray silty sand | î | 20 | Purple clay and sand | 3 | 22 |
| Stiff black clay | <u>ו</u> | 21 | Coarse gray and purple sand | 9 1 | 31 |
| No water sample collected. Ma | _ | | Struck water at 19 feet. | ~ | 01 |
| we got pembro optreoped in | ~ 2 . 60 f | 2000 | Water sample collected. May 2 | E 10' | 7.0 |

Water sample collected, May 25, 1936.

| | Thickness | |
|----------------------------|------------|------------------------|
| | (feet) | (feet) |
| Well 910 | | |
| Hillside, S. D. McAshan to | ract. 13 | miles |
| north of county line, G. I | Diaz Surw | ev 7 |
| miles southeast of Freesto | one. | \circ \mathbf{y} , |
| Yellow surface sand | 1 | 1 |
| Red sandy clay | î | 2 |
| Stiff gray clay | ī | 3 |
| Gray packed sand | 2 | 5 |
| Coarse yellow sand | 1 | 6 |
| Gray packed sand | 2 | 8 |
| Gray clay and sand | 1 | 9 |
| Coarse gray sand | 3 | 12 |
| Gray and brown packed sand | | 15 |
| Coarse gray sand | 1 | 16 |
| Coarse gray and brown sand | 1 4 | 20 |
| Coarse gray and yellow sar | | 22 |
| Gray sand | 1 | 23 |
| Coarse gray and yellow san | nd 2 | 25 |
| Brown clay and sand | 1 | 26 |
| Coarse purple sand | 1 ; | 27 |
| Coarse gray s and, dry | 3 | 30 |
| No water sample collected. | May 25, | 1936 |
| | | |
| Well 911 | | |
| Gentle slope, near creek, | side of | county |
| road, 5 miles south of Fre | eestone. | |
| Red clay and yellow sand | 3 | 3 |
| Gray and yellow sandy clay | | 5 |
| Gray sand | 1 | 6 |
| Yellow clay and sand | 2 | 8 |
| Brown clay and sand | 1 | 9 |
| Yellow silty sand | 2 | 11 |
| Coarse gray end yellow sar | | 16 |
| Blue sandy clay | 5 | 21 |
| No water sample collected. | Feb. 25 | , 1936 |
| TF 77 070 | | |
| Well 912 | | |
| Hilltop, J. H. Robertson | tract, 6 | miles |
| south of Freestone. | a (| |
| White sand | 6 | 6 (|
| Gray and yellow sand | 3 | 9 |
| White silty sand | 1 | 10 |
| Brown and orange sand | 1 | 11 |
| White clay and sand | 3 | 14 |
| Yellow clay and sand | 1 | 15 |
| White and yellow clay and | | 19 : |
| Gray and yellow clay and a | | 21 ' |
| Grey clay and sand | 1 3 | 22 |
| Yellow silty send | • | 25 ' |
| No water sample collected. | ren vo | , TAGO |

Partial analyses of water from wells in Freestone County, Texas

(Analyzed at The University of Texas under the direction of Dr. E. P. Schoch, Director of the Bureau of Industrial Chemistry, by J. E. Stullken, D. F. Riddell, and Alfred J. Kelly, Chemists, and J. A. Harmaza, Martin Wieland and Jack Ramsey, Assistant Chemists. Results are in parts per million. Well number cor-

| | ond to numbers in te | | | | JULIUS CIT | . III par o | 2 ber mittion | 11. | rimmer c | ,O1 | | |
|------------|--------------------------------|---------------|--------------|--------------|------------|-------------|---------------|-------------|---------------------------------------|--|---------------|--------|
| | | Depth | | Total | | Magnes- | Sodium and | Bicar- | · · · · · · · · · · · · · · · · · · · | errome reference a morrer a uniquidadente. | Total | |
| Well | Owner | of | Date | | Calcium | ium | Pôtassium | bonate | Sulphate | Chloride | hardne | SS |
| No. | | well | of | solids | (Ca) | (Mg) | (Na + K) | (HCO_3) | (SO,) | (Cl) | as CaC | 03 |
| | | (feet) | collection | (calculated) | 1 | | (calculated | 1 | 4 | 1 | (calcu | lated) |
| 3 | W.P.A. test well | 23 | May 20, 1936 | | 2,425 | 1,110 | 416 | | 1,787 | 7,650 | 10,620 | |
| 14 | do. | 20 | May 7, 1936 | 807 | 60 | 21 | 208 | 244 | 188 | 210 | 233 | |
| 9 | do. | 21 | do. | 1,328 | 33 | 32 | 344 | 519 | 546 | 58 | 340 | |
| 10 | J. C. Kirren Estate | ≥ 17 | do. | 420 | _ | | ***** | 220 | 126 | 39 | - | |
| 12 | W.P.A. test well | 2 2 | May 20, 1936 | 10,397 | 307 | 443 | 2,750 | 342 | 5,189 | | 2,588 | |
| 17 | do.∙ | 24 | Apr.20, 1936 | 3,405 | 134 | 90 | 947 | 464 | 1,206 | ² 800 | 705 | |
| 23 | Shilo School | 42 | Mar. 9, 1936 | 535 | 64 | 19 | 137 | 180 | <u>a</u> /, | 275 | 237 | |
| 24 | D. R. Allen | 24 | do. | .1,150 | 200 | 67 | 23 | 561 | \overline{a} / | 530 | 773 | |
| 25 | J. C. Adams | 31 | do. | 915 | 151 | 57 | 113 | 320 | <u>a</u> / 44 | 390 | 612 | t_ |
| 27 | Mrs. Barnhill | 12 | do. | 145 | 35 | 8 | 17 | 104 | a/ | 33 | 96 | -75 |
| 28 | √rs. Ruth Baney | 48 | do. | 666 | 31 | 38 | 106 | 39 7 | 115 | 218 | 360 | ı |
| 29 | W. P. A, test well | 29 | Mar. 23, 193 | | | _ | - | 183 | 26 | 15 | _ | |
| 30 | Gilliam Poindexter | 13 | do. | 169 | 32 | 12 | 14 | 92 | 31 | 35 | 127 | |
| 31 | W.P.A. test well | 33 | May 20, 1936 | | | _ | _ | 31 | 855 | 96 43 | - | |
| .33 . | Ranson Stallworth | 59 | Mar. 23,1936 | | 24 | 23 | 88 | 177 | 127 | | 154 | |
| 34 | W.P.A. test well | 29 | Mar. 10,1936 | 322 | 122 | 47 | 82 | 42 | 356 | 194 | 501 | |
| 35 | Ellis Campbell | 31 | do. | 238 | 32 | 11 | 55 | 140 | 100 | 20 | 126 | |
| 36 | J. C. McKinney | 37 | do. | 213 | 30 | 10 | 41 | 159 | <u>a</u> / 15 | 53 | 116 | |
| 37 | do. | 50 | do. | `317 | 38 | 16 | 64 | 220 | | 74 | 162 | |
| 33 | W.T. West | 37 | do. | 31 6 | 25 | 13 | 32 | 244 | 23 | 46 | 116 | |
| 40 | do. | 62 | do. | 338 | 54 | 20 | 47 | 195 | 48 | 72 | 217 | |
| 41 | Kaiser Kuyava | 47 | do. | 380 | 42 | 21 | 75 | 293 | 56 | 40 | 192 | |
| 43 | Avery McKinney | 67 | do. | 1,224 | 214 | 90 | 91 | 293 | 263 | 420 | 906 | |
| 44 | W.K. Manning | 29 | Mar. 5,1936 | | 11 | 4 | 50 | 140 | -, | 27 | | |
| 45 | New Hope School | 34 | . do. | 500 | 19 | 11 | 164 | 293 | <u>e</u> / 40 | 120 | 45 | |
| 46 | Mrs. J.H. Collins | 45 | do. | 949 | 50 | 1.6 | 294 | 268 | 40 90 | 365 | 94 191 | |
| 48 | S. C. Smith | 32 | do. | 92 | 8 | 6 | 12 | 12 | 52 | 8 | | |
| 49 50 | Mrs. Winn | 44 23 | do. | 1,035 | 30 | 58 | 302 | | | | 47 21.5 | |
| | W.P.S. test well | 23 | do. | 504 | 30 31 | 58 11 | 302 152 | 265 360 | 104 53 | 460 72 | 315 124 | |
| 5 <u>2</u> | Clay McKinney L. V. Kennedy | . 38 <u> </u> | <u>do:</u> | <u> 284</u> | 49 | 13 | 165 | 11/3 | a/ | 399 | 169 | |

Partial analyses of water from wells in Freestone County--Continued
Results are in parts per million.

| | | | , Tr. | <u>Results ar</u> | <u>e in pa</u> | rts per | million. | | | | | |
|-------------|---------------------------------|--------------------|------------------------------|-------------------|-------------------------|---------|---------------|------------|--------------------|-------------|-------------|-------------|
| | | Depth | 1 | Total | | Magnes | - Sodium and, | Bicar- | 1 | , | Total | |
| Well | Owner | $\circ \mathbf{f}$ | Date | dissolved | Calciu | n ; ium | Potassium | | Sulphate | . Chloride; | hardness | |
| No. | | well | of | solids | (Ca) | (Mg) | (Na + K) | (HCO_3) | (SO ₄) | (V1) | as CaCO | |
| _ | | (ft.) | collection | (calculated) | 1 1 | () | (calculated) | (1-0-5) | (~4) | (0-) | (calcula | |
| 53 | L.P. Robinson | 29 | Mar. 5, 1936 | | 596 | 28 | | 37 | - a/ | 164 - + | 264 | 10Ca) |
| 56 | Will Barkouskie | 65 | do. | 890 | 145 | 67 | 89 | 366 | 111 | 295 | 638 | |
| 59 | Clifford Boyd | 35 | Feb. 20,1936 | | 26 | 8 | 108 | 177 | 42 | 102 | 99 | |
| 6Ó | Lizzie Cox | 40 | do. | 669 | 95 | 23 | 94 | 368 | 137 | 36 | 332 | |
| 62 | Winfrey's Service | 347 | do. | 363 | 49 | 15 | 73 | _ | | | | |
| | Station | 2-71 | | 700 | 47 | エノ | 13 | 274 | 30 | 64 | 187 | |
| 63 | Withrow Gin Co. | 20 | Mar. 3, 1936 | 1,404 | 35 | 30 | 358 | 202 | 6.20 | 7.1.0 | 220 | |
| 64 | Cotton Gin School | 22 | do. | 252 | 30 30 | 5 | 63 | 323 140 | 630 | 140 | 339 | |
| 65 | Alderman & Alderman | | do. | 344 | 52 | 19 | 54 | 98 | <u> </u> | 84 | 95 | |
| 67 | J. D. Moffett | 72 | do. | 526 | 83 | 27 | 76 | | <u>a</u> / | 170 | 207 | |
| 68 | Mrs. L. C. Traham | 37 | Mar. 9, 1936 | 2,071 | 357 | 140 | 70 68 | 192 | 40 | 204 | 321 | |
| 69 | W.P.A. test well | 20 | do. | 7 610 | | | | 296 | 103 | | 1,467 | |
| 71 | | | | 7,648 | 1,290 | 533 | 757 | 384 | 336 | | 5,416 | |
| 72 | Mrs. Hugh Day | 23 | Mar. 7, 1936 | 94 | 16 | 3 16 | 18 | 85 | <u>a/</u> a/ | 15 | 53 | |
| 73 | Mrs. John Sweat | 13 | do. | 292 | 23 | | 66 | 30 | (3 / | 172 | 124 | |
| | W. W. Day | 75 | do. | 377 | 46 | 24 | 58 | 110 | 66 | 128 | 213 1 | |
| 74 | J. M. Day | 94 | do. | 3,438 | 459 | 320 | 288 | 30 | | | 2,470 | |
| 75 76 | H. P. Milligan | 23 | . do. | 106 | 13 | 9 | 16 | 67 | <u>a</u> / | 35 | 71 9 | ` |
| 76 | R. E. Hays | 32 | Mar. 9, 1936 | 772 | 79 | 47 | 137 | 241 | 132 | 258 | 258 | |
| 77 | W. T. Moore | 56 | Mar. 7, 1936 | 682 | 117 | 33 | 84 | 259 | 60 | 254 | 449 | |
| 79 80 | do. | 41 | do. | 1,015 | 86 | 29 | 263 | 445 | 125 | 290 | 333 | |
| | Shanks School | 53 | do. | 1,665 | 230 | 98 | 254 | 396 | 115 | 770 | 977 | |
| \$ 2 | A. P. Carter | | Mar. 20, 1935 | | 3 | 3 | 53 | 12 | 52, | 51 | 20 | |
| 83 | L. C. Coleman | 26 | do∙ | 101 | 1 | 4 | 34 | 3 | <u>a/</u> 40 | 64 | 18 | |
| 84 | Tome Newman | 31 | do∙ | 508 | 53 | 23 | 110 | 204 | | 180 | 225 | |
| 85 | W. P. A. test well | 31 | do. | 1,902 | 214 | 66 | 372 | 281 | 502 _/ | 910 | 805 | |
| | Fred Carter | 33 | do. | 1,433 | 110 | 145 | 223 | 110 | <u>a</u> /, | 900 | 3 70 | |
| 88 | Sterling Sims | 25 | do. | 133 | 4 | 6 | 43 | 21 | <u>a</u> / | 76 | 30 | |
| | W.P.A.test well | | Mar. 18, 1936 | | 146 | 40 | 277 | 233 | 3 9 | 635 | 530 | |
| 90 | John Wylie | 29 | Feb. 18, 1936 | | 72 | 30 | 432 | 598 | 75 | 478 | 303 | |
| 92 | John Riley | 15 | do. | 163 | 10 | 6 | 42 | 61 | 43 | 32 | 48 | |
| 93 95 | Mrs. G. V. Hullum John Riley | 22 21 | May 29, 1935 | 201 686 | 32 - | 20 | 9 | 43 171 | 5 7 32 | 62 320 | 164 - | |
| 96 | Jim Short | | Feb.13, 1936 | 1,179 | 196 | 62 | 79 | 12 | 745 | 92 | 743 | |
| 100 101 | Tabernacle School T. B. Connell | 22 7 0 | Mar.31, 1936 Feb.13, 1936 | 91 666 | <u>-</u> 49 | 4 15 | 28 180 | 31 73 | 21 76 | 23 310 | 18 185 | |
| | a/ Sulphata loca | | nonta mana mali | 7 | | | | | (v | <u> </u> | <u> </u> | _ |

a/ Sulphate less than 10 parts per million.

51,00

| | | Depth | | Total | | | - Sodium and | Bicar- | , , 1 | I | Total | • |
|------------|--------------------------------|----------------|-------------------------------|----------------|-------------|------|-----------------|---------------------|------------------------------|-----------------|---------------------|------|
| Well | Owner | of | Date | dissolved | Calcium | ium | Potassium | bonate | | Chloride | | 3 |
| No. | | well | of | solids | (Ca) | (Mg, | (Na + K) | (HCO ₃) | (SO ₄) | (C1) | as CaCO | |
| | ! | (ft.) | collection (| calculated | | | (calculated |) | 47 | , , | (calculat | |
| 103 | H.J. Vibrock | 15 | Feb. 13, 1936 | 1,711 | 208 | 100 | 284 | 128 | 115 | 940 | 933 | |
| 104 | G. C. Ward | 86 | do. | 341 | 52 | 8 | 68 | 146 | 16 | 124 | 163 | |
| 106 | J.H. McAdams | 45 | Jan.30, 1936 | 1,779 | 180 | 31 | 470 | 171 | 124 | 835 | 573 | • |
| 107 | George Hoose | 80 | Feb. 17,1936 | 1,416 | 256 | 81 | 150 | 171 | 84 | 760 | 9 73 | |
| 109 | H.J. Adamson | 43 | Jan. 30,1936 | 137 | 11 | 19 | 32 | 45 | <u>a/</u> <u>a/</u> 56 | 28 | 105 | |
| 111 | Magnolia Pipe Li | | | 115 | 7 | | 40 | 67 | <u>a</u> / | 35 | 18 | |
| 112 | do. | 150 | do. | 318 | 8 | 18 | 92 | 98 | a/ | 152 | 95 | |
| 113 | Mrs. Hugh Day | 23 | do. | 974 | 80 | 30 | 257 | 403 | 56 | 350 | 324 | |
| 115 | C. J. Miner | 42 | do. | 101 | 5 | - | 36 | 70 | <u>a/</u> 27 | 25 | 15 | |
| 116 | Roy Simmons | 35 | Jan. 30,1936 | 382 | 78 | 32 | 12 | 130 | | 53 | 330 | |
| 117 | do. | 47 | do. | 1,524 | 287 | 104 | 106 | 21 | 930 | 76 | 1,343 | |
| 118 | do. | 56 | do. | 476 | 120 | 30 | 13 | 20 | <u>e</u> / 51 | 283 | 423 | |
| 120 | G.N. Demus | 45 | Mar. 6,1936 | 487 | 59 | 32 | 81 | 217 | | 156 | 279 | |
| 122 | Jim Clements | 47 | do. | 1,409 | 309 | 65 | 121 | 88 | <u>a</u> / | 870 | 1,035 | |
| 123 | Richardson High | | | 5,211 | 820 | 348 | 438 | 91 | | 1,760 | 3,483 | 1 |
| 124 | Lena Bates | 49 | do. | 1,145 | 176 | 70 | 138 | 238 | 197 | 445 | 726 | .77_ |
| 125 | W.P.A. test well | | do. | 7,082 | 769 | 570 | 1,000 | 262 | | 4,150 | | • |
| 126 | Mrs. Bradley | 22 | do. | 896 | 113 | 46 | 145 | 180 | 177 | 325 | 473 | |
| 206 | Betty Davis | 80 | Apr. 15,1936 | 525 | 31 | 31 | 1,32 | 305 | 37 | 144 | 204 | |
| 207 | J. S. Adair | 75 | do. | 946 | 137 | 24 | 167 | 354 | 308 | 136 | 440 | |
| 208 | do. | 47 | do. | 1,153 | 167 | 67 | 120 | 146 | 531 | 196 | 691 | |
| 210 | W.P.A. test well | | Apr. 6, 1936 | 402 | | | - | 201 | 37 | 118 | | |
| 213 | B.C. Whatley | 60 | do. | 139 | 32 | 12 | 2 | 76 | 18 | 38 | 131 | |
| 215 | Guy Coleman | 35 | do. | 1163 | 11 | .9 | 35 | 73 | 48 | 24 | 66 | |
| 216 | John L. Bonner | 74 | Apr. 14,1936 | 653 | 60 | 60 | 71 | 171 | 329 | 49 | 398 | |
| 217 | Mrs. M.C. Awalt | 60 | do. | 1 , 343 | - | - | | 262 | 61.3 | 166 | - | |
| 120 | Fred Nettles | 19 | Apr.15, 1936 | 47 | | | - | 31 | <u>a</u> /, | 14 | - | |
| 221 | Paul Bonner | 21 | do. | 172 | - | - | - | 122 | a/ | 46 | - | |
| 222 | T.R. Bonner | 45 | do. | 2,332 | 419 | 113 | 204 | 427 | 1,141 | 295 | 1,519 | |
| 223 | N.W. Steward | 19 | Apr.14, 1936 | 1,223 | | | - | 195 | 215 | 435 | | |
| 215 228 | W.P.A. test well | 19 32 89 | May 13, 1936 | 234 415 | - 30 | | - ₆₂ | 177 201 | 33 112 | 435 27 70 | - 246 | |
| 230 | Marvin Watson W.P.A. test well | | Apr. 24, 1936 May 14, 1936 | 415 290 | 5 U | 42 | 02 | 195 | 31 | 70 55 | ~40 - | |
| 233 | Douglas Weaver | 43 45 | May 14, 1936 Apr.14, 1936 | 175 | | _ | | 55 | 53 | 35 | _ | |
| _رري | Podetan Meavel. | 4) | ADI 0.149 1730 | +1/ | | | | | | | | |

a/ Sulphate less than 10 parts per million.

Results are in parts per million.

| | | | | Hesults ar | e in parc | | | | | | | |
|-------------|------------------|--------|-------------|--------------|--------------|------------|--------------|-------------|-----------------------|---------|--------------|-----------------|
| 1 | | Depth | ! ! | Total | | | Sodium and | | 1 | | Tota | |
| Well | Owner | of | Date | dissolved | | ium | Potassium | bonate | | | ride hardne | នន |
| No. | | well | of | solids | (Ca) | (Mg) | (Na + K) | (HCO_3) | (SO_L) |) (Cl | L) as CaC | 10 ₂ |
| 1 | ; : | (ft.) | | (calculated) | _ | ; | | | ; '+ | | (calcul | .ater) |
| 234 | W.P.A. test well | | Apr.14,1936 | 31. | 4 | 3 | 4 | 24 | <u>a</u> / 16 | 8 | 22 | , , , , , , , , |
| 235 | M.H. Whitaker | 29 | do. | 259 | 65 | 14 | 16 | 220 | | 40 | 219 | |
| 236 | do. | Spring | do. | 309 | - | - | | 55 | 63 | 112 | ••• | |
| 237 | Jim Frazier | 48 | Apr. 3,1936 | 498 | _ | - | - | 13 | 129 | 192 | - | |
| 2 39 | Rich Salter | 25 | do. | *** | - | 5 | | | 15 | 78 | *** | |
| 240 | Percy McGeorge | _ | Apr.16,1936 | 495 | - | - | **** | 372 | 15 | 108 | | |
| 241 | W.P.A. test well | 20 | do∙ | 277 | | - | | 134 | 79 | 90 | | |
| 242 | W.S. Patrick | 31 | do. | 280 | 32 | 13 | 35 | | 144 | 56 | 132 | |
| 244 | M.J. Tate | 41 | do. | 136 | - | - | | 61 | 19 | 38 | _ | |
| 245 | Leonard York | 29 | Apr.3, 1936 | 1,173 | 119 | 5 5 | 235 | 146 | 162 | 530 | 524 | |
| 246 | Colon Willard | 28 | do. | 987 | - | _ | | 317 | 354 | 144 | | |
| 247 | W.P.A. test well | 37 | do. | 889 | 74 | 23 | 202 | 24 | 318 | 260 | 2 7 9 | |
| 243 | S.A. Smith | 14 | do. | 109 | - | - | - making | 43 | 8 | 40 | - | |
| 249 | M.J. & W. Tate | 42 | do. | 1,100 | | _ | _ | 104 | 93 | 565 | _ | |
| 250 | Walter Fraeman | 38 | Apr.14,1936 | 199 | - | - | - | 129 | <u>a</u> / 39 | 60 | | -78- |
| 253 | Arthur Cameron | 17 | App.13,1936 | 856 | - | - | | 433 | 39 | 285 | | 00 |
| 254 | W. E. Jones | 93 | do. | - | ~ | | - | *** | a/ 61 | - | - | |
| 255 | Forrest Jones | 99 | do. | 355 | 45 | 16 | 67 | 232 | | 52 | 180 | |
| 256 | Mrs. B.R. Sped | 46 | do. | 739 | 137 | 34 | 63 | 171 | 313 | 103 | 481 | |
| 257 | J. F. Aultman | 41 | do. | 451 | _ | - | | 244 | 102 | 68 | | |
| 258 | W.P.A. test well | | do. | 628 | 6 0 | 30 | 137 | 241 | 7 | 270 | 287 | |
| 259 | Carl Williford | 41 | do. | 1,084 | | - , | - | 183 | 443 | 196 | | |
| 260 | Ben Willard | 24 | June20,1936 | 1,925 | 246 | 86 | 294 | 256 | 698 | 475 | 968 | |
| 261 | Tommie Willard | 29 | do. | 144 | - | - | *** | 49 | 18 | 50 | - | |
| 262 | T.R. Donaldson | 20 | do. | 338 | _ | _ | - | 116 | 103 | 62 | _ | |
| 263 | W.P.A. test well | | Apr.24,1936 | 1,409 | • | - | - | 250 | <u>a</u> /, | 770 | _ | |
| 264 | Wallace McGuyer | 32 | Junel5,1936 | | | - | - | 31 | <u>a</u> /, | 10 | - | |
| 266 | d p. | 29 | Apr.23,1936 | 75 | - | _ | - | 24 | <u>a/</u> a/ a/ | 35 | - | |
| 267 | Henry Lee | 39 | do. | 69 | 11 | 7 | 6 | 24 | <u>a</u> /, | 33 | 54 | |
| 268 | Mrs. H. A. Lee | 56 | do. | 43 | | _ | Mills- | 18 | <u>a</u> / | 18 | - | |
| 269 | Ord Keaton | 50 | June15,1936 | 161 | | _ | _ | ප් 5 | 20 | 40 | - | |
| 270 | do. | 20 | do. | 117 | 4 | 13 | 23 | 43 | 6 | 50 | 63 | |
| 271 | E.J.Folk | 14 | Apr.23,1936 | 42 | 2 | 5 | 7 | 37 | 4 | 6 | 28 | |
| 272 | W.P.A. test well | 26 | do. | 39 | | 1 | 13 | 6 | - 8 | 14 | 5 | |

Results are in parts per million.

| | i | Depth | TICDAT | Total | 100 001 | , Magnes- | | Bicar- | - | | Total |
|------|---------------------------|------------|---------------|--------------|---------|-----------|----------------|---------------------|-------------------|-------------|-------------|
| Well | Owner | of | Date | dissolved | Calcium | | Potassium | } | 1 | Chlorid | e hardness |
| No. | J | well | of | solids | (£3) | | (Na + K) | (HCO ₃) | (SO_L) | (C1) | las CaCO |
| 1100 | | (ft.) | 1 | (calculated) | | \6/ | (calculated) | 1,11003/ | 1004 | (02) | (calculated |
| 273 | Jeff Owens | 15 | Apr. 23, 1936 | 91 | *** | | | 92 | <u>a</u> / 181 | 10 | *** |
| 274 | Martha Day | 80 | Apr. 13, 1936 | | 101 | 34 | 86 | 189 | | 166 | 391 |
| 276 | Mrs. J. W. Day | 115 | June 20, 1936 | | 78 | 20 | 107 | 183 | 48 | 220 | 277 |
| 277 | Jimmie Day | 15 | Apr. 13, 1936 | | - | | | 122 | 16 | 20 | - |
| 278 | Shadrick Thompson | 58 | June 20, 1936 | | _ | - | - | 299 | 145 | 3 06 | |
| 279 | W.M. Jones | 37 | do. | 1,783 | 299 | 74 | 203 | 397 | 702 | 310 | 1,501 |
| 280 | J. L. Shanks | 20 | Apr. 13,1936 | 692 | - | - | ngo | 415 | 39 | 190 | - |
| 282 | do. | 85 | do. | 951 | 104 | 35 | 211 | 262 | 57, | 415 | 401 |
| 283 | W.P.A. test well | 31 | Apr. 3, 1936 | | - | _ | - | 171 | <u>a</u> / 29 | 126 | |
| 284 | R. N. Cannon | 62 | do. | 231 | - | | | 171 | | 64 | |
| 285 | J. L. Miller | 32 | do. | 330 | - | - | ** | 214 | 50 | 54 | |
| 286 | J. E. Irvin & J.E. Bishop | 32 | do. | 176 | | - | - | 73 | 61 | 19 | - |
| 287 | Jim Vaughan | 21 | do. | 170 | _ | | _ | 61 | 31 | 49 | _ |
| 288 | Vell McAdams | 24 | do. | 881 | | _ | ••• | 317 | 80 | 325 | |
| 289 | Matt Henderson | 24 | do. | 386 | 29 | 9 | 105 | 214 | 80 | 58 | 111 9 |
| 290 | W.F.A. test well | 25 | do. | 2,427 | | | | 85 | | 1,430 | _ |
| 291 | John Blakely | 37 | do. | 536 | ••• | *** | ••• | 439 | 58 | 60 | _ |
| 292 | John Norris | 18 | do. | 2,695 | 454 | 77 | 345 | 153 | 1,034 | 710 | 1,452 |
| 293 | J. R. Sessions | 22 | do. | 1,414 | *** | - | ••• | 281 | 312 | 475 | - |
| 294 | W.P.A. test well | 29 | Mar. 19, 1936 | 141 | 6 | 4 | 46 | 85 | <u>a</u> /, | 43 | 31 |
| 296 | Johnny George | 44 | do. | 2083 | 32 | 6 | 18 | 35 | - | 110 | 1.06 |
| 297 | W.P.S. test well | 29 | do. | 455 | 16 | 9 | 23 | 159 | 43 | 285 | 76 |
| 298 | Lake Watson | | May 29, 1936 | 923 | | | - | 390 | 106 | 290 | - |
| 299 | Fred Jett | 8 | do. | 80 | - | 4 | 26 | 55 | 10 | 13 | 17 |
| 300 | L. R. Boyd | 45 | do. | 510 | - | | *** | 159 | 48 | 200 | _ |
| 301 | w.P.A. test well | | Feb. 1, 1936 | 123 | | 3 | 44 | 43 | 10 | 45 | 13 |
| 302 | Billie Watson | | Mar. 26, 1936 | 110 | 4 | 4 | 33 | 61 | 17 | 22 | 28 |
| 304 | Mary John | 11 | do. | 138 | | - | - | 93 | 8 | 30 | *** |
| 305 | Nat McGee | 19 | do. | 140 | - | | | 43 | 21 | 43 | *** |
| 306 | J.R.B. Cain | 29 | do. | 967 | _ | - | *** | 7 9 | 8 | 570 | |
| 307 | R.P. Slatter | 41 | do. | 347 | ••• | - | - | 73 | 8 | 175 | |
| 308 | W.P.A. test wcll | 3 3 | do. | 1,718 | 224 | 118 | 252 | 49 | <u>a</u> / 19 | 1,100 | 1,043 |
| 309 | Newt. Robinson | 40 | do | 310 | | | | 98 | 19 | 130 | |

Partial analyses of water from wells in Free-tone County-Continued Results are in parts per million.

| | | | | | | | | | | 1 | 1 | |
|------------|-----------------------------|--------------------|---------------|-----------|----------|--------------------|--------------|---------------------|--|-------------|---------------------|-------------|
| | | Depth | 1 | Total | 1 | Magnos- | Sodium and | Bicar- | | | Total | |
| Well | Owner | of | Date 'd | issolved | Calcium | ium | Potassium | | Sulphate | Chloride | | s |
| No. | • | well | of : | solids | (Ca) | (Mg) | (Na + K) | (HCO ₃) | (SO ₁) | (C1) | as CaCO | |
| , | ! | (ft.) | | alculated | | (6) | (calculated) | 1 (11003) | (24) | | (calcul | |
| 070 | Tell - 7 A and Till - | 1 41 41 | Mar. 26. 1936 | | 96 | 40 | 65 | 262 | 27 | 215 | 405 | |
| 310 | Walter Ely J. H. Eubanks | 41 47 | do. | 1,805 | - | - | - | 134 | 708 | 445 | | |
| 311 314 | Mrs. Misildine | 21 | June 15, 1936 | | 2 | 3 | 41 | 110 | | 11 | 17 | |
| 315 | Johnny Castle | 21 | do. | 126 | ~ | ر | 44.4. | 79 | <u>a</u> / 20 | 21 | 1/ | |
| 316 | J. C. Ritter | 15 | do. | 567 | 14 | 13 | 192 | 299 | 61 | 140 | - 88 | |
| 317 | J. F. Day | 20 | do. | 670 | | ر ـــ | 172 | 384 | 180 | 64 | 00 | |
| 318 | Marion Willard | 30 30 | do . | 620 | | _ | _ | 427 | 49 | 128 | | |
| 319 | Tom Lindley | 28 | June 20, 1936 | | _ | _ | _ | 146 | 127 | 93 | | |
| 321 | W.P.A. test well | 29 | Apr. 23, 1936 | | | | | 49 | 75 | 8 30 | - | |
| 322 | F. M. Kent | 20 | عروبا وري | 1,219 | | | | 299 | 7 | 620 | *** | |
| 324 | John Metzger | 74 | May 1, 1936 | 1,154 | <u> </u> | - 79 | 196 | ~77 98 | 221 | 460 | - 699 | |
| 325 | Keeney & Hall | 19 | do. | 602 | 38 | 26 | 137 | 79 79 | 222 | 140 | 201 | |
| 400 | J. & G.V. William | | Sept.21,1936 | 138 | | _ | + <i>J</i> (| 49 | 12 | 52 | ~OI | 1 |
| 401 | Chris. Talley | 95 | do. | 326 | 42 | 21 | - 57 | 317 | 35 | 15 | 193 | Ö |
| 402 | Chas. Reese | 79 | do. | · 509 | 121 | 22 | 17 | 159 | 222 | 49 | 394 | r |
| 403 | E. E. Nettles | 63 | Sept.21,1936 | 491 | 74 | 21 | 79 | 311 | 113 | 51 | 273 | |
| 404 | L. Granville | 35 | Sept.23,1936 | šī. | _ '~ | _ | | 79 | | 10 | ~ 1 > | |
| 405 | Scott Ward | 23 | Sept.21,1936 | 234 | _ | _ | | 238 | <u>a</u> / | 25 | _ | |
| 406 | C.H. & E.M. Watson | | Apr.24,1936 | 231 | 44 | 10 | 32 | 159 | <u>a</u> / 11 | <u>56</u> | 151 | |
| 407 | W.P.A. test well | 24 | do. | 72 | | - | | 43 | 12 | 13 | | |
| 408 | J. C. Granberry | 63 | do. | 186 | _ | _ | | 165 | 4 | 29 | | |
| 409 | Mack Cockroll | 68 | do. | 463 | | | *** | 110 | 4 | 235 | | |
| 413 | L. E. Spencer | 30 | d0. | 90 | | *** | | 24 | $\vec{7}$ | 38 | | |
| 414 | W. T. Cole | 105 | do. | 546 | 53 | 18 | 89 | 220 | 202 | 76 | 204 | |
| 416 | R. Q. Young | 10 | Sept.23,1936 | 65 | _ | _ | | 43 | 12 | . 8 | <u> </u> | |
| 417 | Stanolind Oil Co. | 370 | S pt.22,1936 | 1,488 | 2 | 5 | 595 | 586 | 8 | 590 | 28 | |
| 418 | J. H. Granberry | 47 | Apr. 23,1936 | 149 | | | | 67 | a/. | 60 | | |
| 419 | Boyd Henderson | 4Ì | do. | 204 | _ | - | _ | 134 | ਕੂੰ/ | 60 | · | |
| 421 | Mrs. May Casey | 48 | June 15,1936 | 2,215 | 388 | 144 | 181 | 73 | <u>a</u> / 456 | 1,010 | 1,564 | |
| 423 | W.P.A. test well | 32 | Apr. 23,1936 | 36 | 4 | 6 | 2 | 24 | a/ | 12 | 33 | |
| 424 | Brady Gunter | 23 | June 15,1936 | 260 | 40 | 11 | 45 | 159 | <u>a</u> / 20 , | 66 | 147 | |
| 425 | J. S. Newman | 55 | do. | 336 | | *** | - | 207 | <u>a</u> / | 106 | - | |
| 426 | John McCann | 65 | do. | 174 | | - ~ | -, | 140 12 | <u>a/</u> <u>a/</u> 2 7 | 38 17 | - 50 | |
| 429 | W.P.A. test well | 25 | May 19, 1936 | 71 | 7 | 8 | 6 | 12 | 21 | <u> </u> | - 50 | |

| | | | | SOUTER OF | <u>e in parts</u> | per ml. | LILON. | | | | | |
|------------|-------------------------------|----------|---------------------|------------|-------------------|------------|----------------|------------------|------------------|------------|-------------|----------|
| | ! | Depth | | Tota] | | Magnes- | - Sodium and | Bicar- | | | Total | |
| ₩ell | Owner | of | Date | dissolve | ed Calcium, | ium | Potassium | bonate | Sulphate | Chloride | hardness | |
| No. | | well | of | solids | | (Mg) | (Na + K) | $\sqrt{(HCO_3)}$ | | (Cl) | es CaCO3 | |
| | | (ft.) | collection (| (calculat | (he, | | (calculated | 1)!\ 3 | 1 | 1 () | .(calculate | -d |
| 431 | W.P.A. test well | 30 | May 1, 1936 | 332 | - | - | _ | 98 | 63 | 104 | | ~ |
| 433 | do. | 37 | May19, 1936 | 69 | 8 | 10 | 3 | 37 | 10 | 20 | 61 | |
| 436 | F. E. Hill | 23 | Apr.27,1936 | 68 | - | | - | 13 | a/ | 34 | == | |
| 437 | | Spring | do. | 24 | | | - | 12 | <u>a</u> / 8 | 9 | - | |
| 501 | W.P.A. test well | 32 | May12, 1936 | 42 | - | _ | | 18 | ষ্ট | 1Ó | ~ | |
| 502 | do . | 30 | do. | 31 | | 4 | 5 | 12 | 8 | 8 | 18 | |
| 506 | F. E. Hill | 31 | do. | 89 | 2 | 5 | 22 | 37 | 3 3 | 9 | 28 | |
| 514 | W.P.A. test well | 12 | Apr. 9,1936 | 33 | I_{\ddagger} | 1 | 9 | 18 | | 15 | 16 | |
| 517 | Burleson & Red | 19 | June 9,1936 | 158 | 10 | 9 | 33 | 37 | 5 7 | 31 | 61 | |
| 518 | do. | 20 | do. | 264 | | _ | | 18 | 63 | 102 | | |
| 520 | W.P.A. test well | 26 | Apr. 9,1936 | 914 | 65 | 51 | 137 | - | 579 | 82 | 372 | |
| 521 | Joe Parker | 19 | June 9,1936 | 68 | | | ~ | 37 | 16 | 10 | - | |
| 522 | Mrs. J. C. Robiso | _ | do. | 440 | | _ | *** | 165 | 43 | 152 | | |
| 524 | Mally Woods | 28 | do. | 286 | _ | | - | 110 | 57 | 74 | ~~ | 1 |
| 525 | Shilo School | 15 | do. | 62 | 11 | 8 | _ | 24 | 16 | 15 | 60 | <u> </u> |
| 526 | W.P.A. test well | 20 | June 1, 1936 | 367 | 43 | 68 | 123 | | 462 | 166 | 402 | Ì |
| 527 | Fanny Malone | 16 | June 9, 1936 | 5 66 | | _ | ~ | 37 | <u>a</u> / | | | |
| 528 | do. | 22 | do. | 131 | | _ | | 6 | 14 | 23 68 | *** | |
| 529 | W.P.A. test well | 22 | June 1, 1936 | | *** | - | | 6 | 131 | 16 | | |
| 530 | T. H. Lee | 14 | June 19,1936 | 62 | _ | | | 12 | 22 | 13 | • | |
| 532 | W.P.A. test well | 13 | Apr. 9, 1936 | 5 284 | _ | - | - | 12 | 176 | 16 | | |
| 534 | do. | 25 | Apr.10, 1936 | | 2 | 5 | 1 | 12 | a/ | 11 | 24 | |
| 535 | v. C. Gorman | 15 | JunelO, 1936 | 5 136 | | _ | | 12 | <u>a</u> / 77 | 11 | _ | |
| 536 | W.P.A. test well | 30 | June 3, 1936 | 5 271 | | | - | - | 115 | 76 | *** | |
| 537 | B. B. Kimbell | 70 | June 19,1936 | 5 207 | | | | - | 73 | 66 | | |
| 538 | Robert Mims | 22 | do. | 55 | | | | 6 | 22 | 12 | - | |
| 539 | W.P.A. test well | 24 | June 3, 1936 | | - | - | - | - | 159 | 26 | _ | |
| 540 | Myrtle Webb | 34 | June 19,1936 | | 6 | 3 9 | 51 | - | 220 | 68 | 174 | |
| 541 543 | J. W. Murdock | 10 | do∙ | 105 105 | - 2 | | 3 3 | 24 24 | 2 2 | 46 33 | 1 7 | |
| | M. Danel | Spring | | | | 3 | 33 | | | | | |
| 544 545 | Mrs. Keeling W.P.A. test well | 26 37 | do. June 2, 1936 | 5 155 | 3 | <u>2</u> | 16 58 | 24 49 | 12 8 | 10 92 | 31 | |
| 546 | E. Guess | 36 26 | June 19,1936 | | - | | men | 12 98 | 73 73 | 100 228 | | |
| 547 | Jesse Lee | 20 | do. |)~! | | | _ | | | | | - |

a/ Sulphate less than 10 parts per million.

| | <u></u> | Donth | | | Total | TOP GIC T | the same of the last of the la | Sodium and | Bicar- | | | mot ol | |
|--------------|--|-------------|-------------|---------------|-----------|-----------|--|--------------|-----------|------------------------|--|------------|------|
| 7.7T.T | 0 | Depth of | Date | | dissolved | Coloinal | Magnes- | | | Carimbada | (Challensis) | Total | |
| Well | Owner | | 1 i | | | | | Potassium | | Sulphate | | hardness | |
| No. | | well | of | , | solids | (Ca) | (Mg) | (Na + K) | (HCO_4) | (50_{4}) | (C1) | las CaCO3 | . \ |
| | | (ft.) | collection | | | | | (calculated) | | | 1.57 | (calculate | ed) |
| 548 | Mrs. E.E.Haddon | | June 19, 19 | | 83 | | _ | - | 18 | 8 | 36 | - | |
| 549 | W.P.A, test well | | June 3, 19 | | 113 | | *** | | | 29 | 46 | | |
| 601 | William Jones | | Mar. 26, 19 | 36 | 548 | - | | | 445 | . 8 | 110 | - | |
| 602 | J.R.B. Cain | 15 | do. | | 1,379 | 175 | 115 | 181 | 329 | 46 | 700 | 911 | |
| 603 | do. | 25 | do. | | 250 | - | - | - | 73 | 46 | 90 | | |
| 604 | do. | 27 | do. | - / | 433 | | | - | 85 | 3 | 225 | - | |
| 605 | W.P.A. test well | | Mar. 27, 19 | | 105 | | 7 | 43 | 37 | 26 | 11 | 30 | |
| 606 | F. E. Hill | | Apr. 25, 19 | 36 | 177 | _ | | _ | 61 | 30, | 54 | - | |
| 607 | do. | 39 | do. | | 92 | | 7 | 28 | 61 | <u>a</u> / | 27 | 27 | |
| 609 | Riley Middleton | 61 | do. | , | 1,733 | 301 | 88 | 151 | 293 | 749 | 300 | 1,114 | |
| 610 | W.A Parker | | Apr. 7, 19 | 36 | 740 | | | - | 110 | 183 | 250 | _ | |
| 611 | Bryant Daniels | 85 | do. | | 438 | 45 | 45 | 62 | 293 | 24 | 118 | 293 | |
| 613 | Grady Ivy | 25 | do. | | 137 | - | - | | 55 | 57, | 7 | - | |
| 614 | Clenon Mullin | 33 | do. | | 44 | | - | - | 37 | <u>a</u> / a/ 19 | 9 | | I n |
| 616 | Will Creel | | Apr. 27, 19 | 36 | 42 | | - | - | 24 | <u>a</u> / | 14 | , man | -32- |
| 617 | W.P.A. test well | | do . | | 64 | 5 | 5 | 10 | 6 | | 22 | 33 | • |
| 618 | N. L. Richardson | | ₫o. | | 72 | 9 | 14 | - | 24 | <u>a</u> / | 37 | 79 | |
| 622 | G. J. Weaver | 19 | Apr. 7, 19 | 36 | 573 | - | | | 61 | 321 | 44 | | |
| 624 | Joe McAdmas | 31 | do. | | 1,861 | 191 | 160 | 236 | 134 | 443 | 760 | 1,134 | |
| 625 | Mt. Zion School | 39 | do. | | 1,042 | 157 | 91 | 77 | 195 | 276 | 345 | 766 | |
| 626 | A. F. McAdams | 48 | June 9, 1º | ²⁶ | 5,023 | 714 | 369 | 503 | | | ,800 | 3,304 | |
| 527 | L. V. Jones | 25 | do. | | 1,438 | 137 | 75 | 295 | 464 | 213 | 490 | 651 | |
| 629 | J. F. Emmons | 22 | Apr. 7, 193 | 6 | 117 | - | | - , | 122 | <u>a</u> / 120 | 11 | | |
| 630 | J. S. Ivy | 64 | do. | | 459 | 56 | 28 | 67 | 61 | | 158 | 252 | |
| 5 3 1 | Leonard Emmons | 49 | do. | | 73 | - | | - | 67 | <u>a</u> / 225 | 15 | *** | |
| 633 | W. L. Glazener | 79 | Apr. 25,193 | 5 | 1,102 | - | | *** | 336 | 225 | 325 | - | |
| 63~ | Sim Chavers | | Mar. 27,193 | | 500 | 75 | 34 | 52 | 61 | 127 | 132 | 326 | |
| 636 | W.P.A. test well | | do. | | 53 | 1 | 7 | 9 | 12 | 19 | 16 | 33 | |
| 638 | W. R. Boyd Jr. | 72 | do. | | 1,732 | 235 | 154 | 153 | 122 | 380 | 740 | 1,220 | |
| 639 | W.P.A. test well | | Mar. 12, 19 | 36 | 2,405 | 184 | 113 | 530 | 110 | 434 | .,090 | - | |
| 640 | T. C. Gardner | 27 | do. | - | 2,330 | 259 | 97 | 463 | 442 | 350 | 940 | 1,044 | |
| 641 | Wm. McIlveen | | Apr. 25, 19 | 36 | 1,009 | | | - · | 49 | 116 | 515 | - | |
| 642 | do. | 41 | do. | <i></i> | 477 | | | _ | 122 | 52 | 194 | <u>-</u> | |
| Unpr | COLUMN CO | <u>+</u> ++ | | | -1 / 1 | | | | | HARRY CHICAGO CONT. | a e-aramanando el deploy de deploy de de presenta de la presenta del presenta de la presenta de la presenta del presenta de la presenta del presenta de la presenta de la presenta del presenta de la presenta del la presenta della pr | | |

a/ Sulphate less than 10 parts per million.

Results are in parts per million.

| | | | | | ***** | surcs are | | s ber militi | | | - | | |
|------|------------------|------|--------------|-------------|------------|--------------|------|--------------|---------------------|--------------------|------|------------------------|------------|
| 1 | | epth | , | Tot | | | | Sodium and | | , | • | Total | |
| Well | | of | Date | | | Calcium | ium | Potassium | | Sulphate | | $l\epsilon_i$ hardness | |
| No. | | =11 | of | soli | | (Ca) | (Mg) | (Na + K) | (HCO ^L) | (SO _L) | (C1) | as CaCO3 | |
| | 1) [| [t.) | collection | | .ated |) | | (calculated | d) ⁴ | , – | | (calculated) | |
| 643 | W.P.A. test well | 26 | Apr. 25 19 | 36 2, | 085 | _ | | _ | 323 | 457 | 750 | - | |
| 644 | Edith Johnson | 7 | do. | | 27 | -10-1 | 4 | 5 | 18 | <u>a</u> / | 9 | 17 | |
| 645 | W.P.A. test well | 21 | Mar. 27, 193 | 36, | 956 | 407 | 183 | 685 | 73 | 1,445 | | 1,767 | |
| 647 | W. J. Lane Jr. | 64 | do. | | 421 | | | - | 146 | 80 | 120 | - | |
| 648 | Dew School | 48 | do. | | 312 | - | - | - | 183 | 15 | 90 | - | |
| 649 | A. H. White | 18 | do. | | 80 | 11 | 8 | 8 | 49 | 3 | 21 | 60 | |
| 650 | V. C. Clark | 13 | June 9, 1936 | 5 | 158 | _ | | | 67 | 24 | 44 | | |
| 651 | J. A. Harrison | 45 | Mar. 27,1936 | 5 2, | ,116 | _ | _ | - | 610 | 357 | 710 | ~ | |
| 653 | W. F. Swinburne | 47 | Apr. 25,1936 | | 330 | - | | _ | 92 | 19 | 146 | - | |
| 655 | A. Bradshaw | 45 | do. | | 159 | - | ••• | | 110 | 11 | 34 | -the | |
| 662 | Grady Weaver | | May 6, 1936 | | 109 | - | | | | - , | 70 | | |
| 663 | G. J. Weaver | 31 | do. | | 33 | - | | - | 24 | <u>a/</u> 94 | 8 | | |
| 665 | W. N. Evans | 70 | June 9, 1936 | 5 | 551 | 8 | 9 | 136 | 49 | 94 | 230 | 56 | |
| 667 | Wood George | 26 | do. | | 72 | | | vým. | 31 | 8 | 23 | ••• | |
| 668 | do. | 31 | do. | | 211 | - | _ | - | 55 | 75 | 38 | | <u>-</u> ه |
| 670 | A. C. Anderson | 35 | do. | | 127 | 3 | 11 | 23 | 6 | 8, | 74 | 67 | Ψ |
| 675 | R. E. Petty | 17 | do 🗸 | | 57 | - | _ | | 18 | <u>a</u> / 19 | 27 | | |
| 676 | John Ac ins | 20 | do. | | 97 | - | - | | 49 | | 19 | - | |
| 677 | A. B. Adkins | 65 | do. | | 91 | | | - | 12 | 23 | 31 | _ | |
| 678 | W.P.A. test well | 13 | Apr. 23, 193 | 36 | 44 | _ | _ | - | 12 | 15 | 8 | **** | |
| 679 | O. W. Killiam | 28 | June 9, 19 | 36 | 75 | - | | • | 12 | 23 | 21 | _ | |
| 681 | Abe Jones | 13 | do. | | 176 | | - | | 18 | 73 | 37 | - | |
| 682 | do. | 22 | do. | | 86 | 23 | 7 | 2 | 92 | <u>a</u> / | 9 | 84 | |
| 683 | Dan Bryant | 45 | do. | | - 57 | | | | 37 | 4 | 14 | | |
| 684 | W.P.A. test well | 2" | Apr.30, 193 | 6 - | .598 | 47 5 | 377 | 503 | _ | 3,384 | 535 | 2,734 | |
| 685 | Jim Jones | | June 9, 193 | | 37 | 2 | 4 | 7 | 31 | , | 9 | 23 | |
| 686 | W.P.A. test well | | June 4, 193 | | 60 | - | | | 24 | <u>a</u> / 12 | 15 | _ | |
| 687 | Mary Collins | | June 9, 193 | | 137 | _ | _ | - | 85 | 16 | 60 | *** | |
| 688 | George Moton | 20 | | , | 74 | | | _ | 37 | 12 | 17 | *** | |
| 691 | W.M. Pcyton | | Apr. 30,193 | 16 | 70 | - | | *** | 43 | 4 | 19 | - | |
| 692 | A. Weaver | 19 | | . • | 556 | 49 | 31 | 81 | ~~ <i>)</i> | 357 | 38 | 249 | |
| 693 | do. | 17 | | | 64 | - | | - | | 19 | 11 | | |
| 694 | W.P.A. test well | 20 | | | 35/ | | - | | 24 12 | 224 | 24 | <u></u> | |
| 697 | do. | | May 18,193 | 6 | 183 | 7 | 11 | 28 | | 124 | 13 | 61 | , |
| | o/ Culmbete loca | | | | ~ ~ | | | | | | | | |

Partial analyses of water from wells in Freestone County--Continued Results are in parts per million.

| No. Owner Of well Of well Of well Of well Calcium Solids Calcium Owner Owner Calcium Owner Calcium Owner Own | | | Depth | φ | otal | | | Sodium and | | 1 | | Total | |
|--|--------------------|---------------|------------------------|--------------------|------------|-------------|-----|--------------|--------|-----------------|-----------------|------------|-----|
| No. well of solids (Ca) (Mg) (Na + K) (H ^O O ₄) (SO ₄) (C1) as CaCO ₃ (calculated) (| | | | | | | | | | Sulphate | Chloride | 1 | |
| Calculated Cal | i | Owitoi | | 1 | | | | (Na + K) | (HCO.) | | | II. | |
| 302 W.P.A. test well 29 Feb. 27,1936 3,550 471 103 744 585 a/ 1,940 1,600 306 Jim Roper 37 Feb. 3,1936 779 52 18 227 305 55 275 204 808 B.P. Compton 22 May 29,1936 279 61 110 47 - 800 W.P.A. test well 24 Feb. 1,1936 5,873 559 242 1,290 390 662 2,730 2,393 810 Lake Matson 17 May 29,1936 137 134 a/ 17 - 811 G.W. Burleson 32 do. 150 - 9 46 55 12 56 37 812 W.P.A. test well 33 Feb. 31,1936 1,305 91 46 326 30 207 605 418 813 C.D. Lindsey 29 Jan. 31,1936 314 39 9 238 111 37 150 135 814 Pyburn School 26 May 19,1936 115 6 4 29 37 44 14 33 815 - Scals 21 Jan. 31,1936 84 32 8 29 30 107 10 113 816 W.P.A. test well 30 do. 64 1 6 14 24 12 19 25 317 D.W. Terry 21 Mar. 13,1936 226 10 5 77 204 a/ 32 45 818 W.P.A. test well 23 do. 325 - 18 110 299 a/ 43 75 819 do. 25 do. 43 2 1 12 12 12 10 10 29 820 P.R. French 11 do. 52 8 4 8 55 a/ 5 35 821 do. 66 47 1 2 15 15 a/ 22 10 822 W.P.A. test well 29 Feb. 5,1936 1,145 124 49 225 152 186 485 513 | | _ | | | | | (6/ | calculated | 4 | 4 | (01) | | a) |
| 806 Jim Roper 37 Feb. 3,1936 779 52 18 227 305 55 275 204 808 B.P. Compton 22 May 29,1936 279 - - - 61 110 47 - 800 M.P.A. test well 24 Feb. 1,1936 5,873 559 242 1,290 390 662 2,730 2,393 810 Lake Watson 17 May 29,1936 137 - - 134 a/ 17 - 811 G.W. Burleson 32 do. 150 - 9 46 55 12 55 37 812 W.P.A. test well 33 Feb. 31,1936 1,305 91 46 326 30 207 605 418 813 C.D. Lindsey 29 Jan. 31,1936 314 39 9 238 111 37 150 135 814 Pyburn School 26 May (9,1936) 115 6 4 29 37 44 14 33 815 - Scals 21 Jan. 31,1936 84 | W.P.4. test well | 4. test well | | | | | 103 | | | + a/ | 1.940 | | 7 |
| 808 B.P. Compton 22 May 29,1936 279 61 110 47 - 800 M.P.A. test well 24 Feb. 1,1936 5,873 559 242 1,290 390 662 2,730 2,393 810 Lake Watson 17 May 29,1936 137 134 a/ 17 - 811 G.W. Burleson 32 do. 150 - 9 46 55 12 56 37 812 W.P.A. test well 33 Feb. 31,1936 1,305 91 46 326 30 207 605 418 813 C.D. Lindsey 29 Jan. 31,1936 314 39 9 238 111 37 150 135 814 Pyburn School 26 May 29,1936 115 6 4 29 37 44 14 33 815 - Seals 21 Jan. 31,1936 84 32 8 29 30 107 16 113 816 W.P.A. test well 30 do. 64 1 6 14 24 12 19 25 317 D.W. Terry 21 Mar. 13,1936 226 10 5 77 204 a/ 32 45 818 W.P.A. test well 23 do. 325 - 18 110 299 a/ 43 75 131 do. 25 do. 43 2 1 12 12 12 10 10 820 P.R. French 11 do. 52 8 4 8 8 55 a/ 5 35 821 do. 46 do. 47 1 2 15 15 a/ 22 10 822 W.P.A. test well 29 Feb. 5,1936 1,145 124 49 225 152 186 485 513 | | | | | | | | | | <u>~</u> /55 | 275 | 204 | |
| 800 W.P.A. test well 24 Feb. 1,1936 5,873 559 242 1,290 390 662 2,730 2,393 810 Lake Watson 17 May 29,1936 137 134 a/ 17 - 811 G.W. Burleson 32 do. 150 - 9 46 55 12 56 37 812 W.P.A. test well 33 Feb. 31,1936 1,305 91 46 326 30 207 605 418 813 C.D. Lindsey 29 Jan. 31,1936 314 39 9 238 111 37 150 135 814 Pyburn School 26 May 19,1936 115 6 4 29 37 44 14 33 815 - Seals 21 Jan. 31,1936 84 32 8 29 30 107 10 113 816 W.P.A. test well 30 do. 64 1 6 14 24 12 19 25 818 W.P.A. test well 23 do. 325 - 18 110 299 a/ 43 75 819 do. 25 do. 43 2 1 12 12 12 10 10 820 P.R. French 11 do. 52 8 4 8 4 8 55 a/ 5 35 821 do. 46 do. 47 1 2 15 15 a/ 22 10 822 W.P.A. test well 29 Feb. 5,1936 1,145 124 49 225 152 186 485 513 | | | | | | _ | | | | ıíó | 47 | *** | |
| 810 Lake Watson 17 May 29,1936 137 134 a/ 17 - 81.1 G.W. Burleson 32 do. 150 - 9 46 55 12 56 37 812 W.P.A. test well 33 Feb. 31,1936 1,305 91 46 324 30 207 605 418 813 C.D. Lindsey 29 Jan. 31,1936 314 39 9 238 111 37 150 135 814 Pyburn School 26 May 29,1936 115 6 4 29 37 44 14 33 815 - Seals 21 Jan. 31,1936 84 32 8 29 30 107 10 113 816 W.P.A. test well 30 do. 64 1 6 14 24 12 19 25 318 W.P.A. test well 30 do. 64 1 6 14 24 12 19 25 318 W.P.A. test well 23 do. 325 - 18 110 299 a/ 43 75 139 do. 25 do. 43 2 1 12 12 10 10 10 820 P.R. French 11 do. 52 8 4 8 9 55 a/ 5 35 821 do. 16 do. 47 1 2 15 15 a/ 22 10 822 W.P.A. test well 29 Feb. 5,1936 1,145 124 49 225 152 186 485 513 | | <u> </u> | | | | 559 | 242 | 1.290 | | | | 2 303 | |
| 811 G.W. Burleson 32 do. 150 - 9 46 55 12 56 37 812 W.P.A. test well 33 Feb. 31,1936 1,305 91 46 326 30 207 605 418 813 C.D. Lindsey 29 Jan. 31,1936 314 39 9 238 111 37 150 135 814 Pyburn School 26 May 19,1936 115 6 4 29 37 44 14 33 815 - Scals 21 Jan. 31,1936 84 32 8 29 30 107 10 113 816 W.P.A. test well 30 do. 64 1 6 14 24 12 19 25 317 D.W. Terry 21 Mar. 13,1936 226 10 5 77 204 a/ 32 45 818 W.P.A. test well 23 do. 325 - 18 110 299 a/ 43 75 819 do. 25 do. 43 2 1 12 12 10 10 820 P.R. French 11 do. 52 8 4 8 55 a/ 5 35 821 do. 46 do. 47 1 2 15 15 a/ 22 10 822 W.P.A. test well 29 Feb. 5,1936 1,145 124 49 225 152 186 485 513 | | | | | | | | | | | = | ~,))) | |
| 312 W.P.A. test well 33 Feb. 31,1936 1,305 91 46 326 30 207 605 418 813 C.D. Lindsey 29 Jan. 31,1936 314 39 9 238 111 37 150 135 814 Pyburn School 26 May 29,1936 115 6 4 29 37 44 14 33 815 - Scals 21 Jan. 31,1936 84 32 8 29 30 107 10 113 816 W.P.A. test well 30 do. 64 1 6 14 24 12 19 25 317 D.W. Terry 21 Mar. 13,1936 226 10 5 77 204 a/ 32 45 318 W.P.A. test well 23 do. 325 - 18 110 299 a/ 43 75 1 819 do. 25 do. 43 2 1 12 12 10 10 2 820 P.R. French 11 do. 52 8 | | | | | | | 9 | 1.6 | | 12 12 | | 277 | |
| 813 C.D. Lindsey 29 Jan. 31,1936 314 39 9 238 111 37 150 135 814 Pyburn School 26 May 29,1936 115 6 4 29 37 44 14 33 815 - Seals 21 Jan. 31,1936 84 32 8 29 30 107 10 113 816 W.P.A. test well 30 do. 64 1 6 14 24 12 19 25 817 D.W. Terry 21 Mar. 13,1936 226 10 5 77 204 a/ 32 45 818 W.P.A. test well 23 do. 325 - 18 110 299 a/ 43 75 819 do. 25 do. 43 2 1 12 12 10 10 820 P.R. French 11 do. 52 8 4 8 55 a/ 5 35 821 do. 16 do. 47 1 2 15 15 a/ 22 10 822 W.P.A. test well 29 Feb. 5,1936 1,145 124 49 225 152 186 485 513 | 2 W.P.A. test well | .A. test well | | | | 91 | • | | | | | | |
| 814 Pyburn School 26 May 19,1936 115 6 4 29 37 44 14 33 815 - Seals 21 Jan. 31,1936 84 32 8 29 30 107 10 113 816 W.P.A. test well 30 do. 64 1 6 14 24 12 19 25 817 D.W. Terry 21 Mar. 13,1936 226 10 5 77 204 a/ 32 45 818 W.P.A. test well 23 do. 325 - 18 110 299 a/ 43 75 1819 do. 25 do. 43 2 1 12 12 12 10 10 820 P.R. French 11 do. 52 8 4 8 55 a/ 5 35 821 do. 46 do. 47 1 2 15 15 a/ 22 10 822 W.P.A. test well 29 Feb. 5,1936 1,145 124 49 225 152 186 485 513 | | | | | | | | | | | | | |
| 815 - Seals 21 Jan. 31,1936 84 32 8 29 30 107 10 113 816 W.P.A. test well 30 do. 64 1 6 14 24 12 19 25 317 D.W. Terry 21 Mar. 13,1936 226 10 5 77 204 a/ 32 45 818 W.P.A. test well 23 do. 325 - 18 110 299 a/ 43 75 1819 do. 25 do. 43 2 1 12 12 10 10 10 820 P.R. French 11 do. 52 8 4 8 55 a/ 5 35 821 do. 46 do. 47 1 2 15 15 a/ 22 10 822 W.P.A. test well 29 Feb. 5,1936 1,145 124 49 225 152 186 485 513 | | | | | | | Ĺ | | | | | | |
| 816 W.P.A. test well 30 do. 64 1 6 14 24 12 19 25 \$17 D.W. Terry 21 Mar. 13,1936 226 10 5 77 204 a/ 32 45 \$18 W.P.A. test well 23 do. 325 - 18 110 299 a/ 43 75 \$19 do. 25 do. 43 2 1 12 12 10 10 \$20 P.R. French 11 do. 52 8 4 8 55 a/ 5 \$21 do. 46 do. 47 1 2 15 15 a/ 22 10 \$22 W.P.A. test well 29 Feb. 5,1936 1,145 124 49 225 152 186 485 513 | 5 - Seals | cals | | | | | 8 | | | | | | |
| 317 D.W. Terry 21 Mar. 13,1936 226 10 5 77 204 a/ 32 45 318 W.P.A. test well 23 do. 325 - 18 110 299 a/ 43 75 319 do. 25 do. 43 2 1 12 12 10 10 20 820 P.R. French 11 do. 52 8 4 8 55 a/ 5 35 1 821 do. 46 do. 47 1 2 15 15 a/ 22 10 822 W.P.A. test well 29 Feb. 5,1936 1,145 124 49 225 152 186 485 513 | 6 W.P.A. test well | .A. test well | 30 | | | | | | | | | | |
| 318 W.P.A. test well 23 do. 325 - 18 110 299 a7 43 75 319 do. 25 do. 43 2 1 12 12 12 10 10 29 820 P.R. French 11 do. 52 8 4 8 55 a/ 5 35 1 821 do. 16 do. 47 1 2 15 15 a/ 22 10 822 W.P.A. test well 29 Feb. 5,1936 1,145 124 49 225 152 186 485 513 | 7 D.W. Terry | . Terry | 21 | Mar. 13,1936 | | | 5 | | | | | | |
| 820 P.R. French 11 do. 52 8 4 8 55 a/ 5 35 f 821 do. 46 do. 47 1 2 15 15 a/ 22 10 822 W.P.A. test well 29 Feb. 5,1936 1,145 124 49 225 152 186 485 513 | | .A. test well | 23 | | 325 | | 18 | | | a 7 | 1.3 | 75 | |
| 820 P.R. French 11 do. 52 8 4 8 55 a/ 5 35 1 821 do. 46 do. 47 1 2 15 15 a/ 22 10 822 W.P.A. test well 29 Feb. 5,1936 1,145 124 49 225 152 186 485 513 | | | 25 | do. | | 2 | | | | 12 | 10 | ίó | ထွ် |
| 821 do. 46 do. 47 1 2 15 15 a/ 22 10 822 W.P.A. test well 29 Feb. 5,1936 1,145 124 49 225 152 186 485 513 | | | 11 | do. | 52 | 8 | 4 | | | | | 35 | 1 |
| 822 W.P.A. test well 29 Feb. 5,1936 1,145 124 49 225 152 186 485 513 | | | 1,6 | do. | 47 | | | | | ā/ | 22 | <u> 10</u> | |
| 824 Tom Blackmon 26 May 15 1935 101 72 6/ 94 | | | 29 | Feb. 5,1936 | 1,145 | 124 | | | | 185 | | | |
| $\frac{1}{2} = \frac{1}{2} | | | May 15,1935 | 101 | _ | - | - | 73 | a/ | 26 | | |
| 826 W.P.A. test well 25 Feb. 21,1936 8/3 72 25 221 427 90 222 233 | | | | Feb. 21,1936 | | 72 | 25 | 221 | | 90 | | 233 | |
| 827 - Webb 10 May $15.1036 \cdot 1.121$ $ 115 \cdot 218 \cdot 275$ - | | | | May 15,1936 | 1,121 | *** | | **** | 415 | 248 | 275 | | |
| 328 P. M. Winfrey 19 do. 1,917 671 264 635 | 3 P. M. Winfrey | 4. Winfrey | | | | - | - | | 671 | 264 | 635 | - | |
| 829 Frank Baggett 21 do. 2,750 256 436 1,230 - | / Frank Baggett | ık Baggett | | | | *** | | - | | 436 | | _ | |
| 830 Marshall Harris 13 d0. 126 24 <u>a/</u> 68 _ 833 J. M. Miller 65 do. 2,431 333 136 392 390 48 1,330 1,390 | | | | | | | - | _ | | <u>a</u> / | | | |
| | | | - | | | | | | | | 1,330 | 1,390 | |
| 834 W.P.A. test well 16 Feb. 21,1936 3,306 407 163 808 463 97 2,100 1,689 | W.P.A. test well | A. test well | | Feb. 21,1936 | | 407 | 163 | 308 | | | | 1,689 | |
| 835 W.C. Miller 12 May 15,1936 141 61 39 14 | | | | | | - | | - | | | | | |
| 836 Ed. Martin 16 do. 3,225 262 127 1,810 - | | | | | | | | - | | | | | |
| 337 B.C. Gilliam 18 Feb. 10,1936 215 - 3 122 67 8 49 13 | | | | • | | | 3 | 122 | | | | 13 | |
| 833 W.P./ test well 75 do. 265 = = = 85 7 118 = 339 MrsE. Curry 55 May 15, 1936 613 = = 195 <u>a</u> / 290 = | M.F. Lest well | | ⁷ り 55 1 | do. May 15 1936 | 265 613 | *** | *** | <u>-</u> | 185 | 7/ | 1 18 | Ξ | |
| 333 W.P./ test well 26 do. 265 85 7 118 - 339 Mrs. N.E. Curry 55 May 19, 1936 613 195 a/ 290 - 841 do. 50 do. 265 201 a/ 64 - | | | 50 | | | | | - | 201 | a/ | ~6 <u>4</u> | - | |
| 842 Mrs. Ada Washburn 35 do. 274 22 11 75 250 a/ 43 102 | · - | | • | | - | 22 | 11 | 75 | | <u>a</u> / | | 102 | |
| 842 Mrs. Ada Washburn 35 do. 274 22 ll 75 250 a/ 43 102 844 R. R Long 18 do. 120 43 37 21 - | | | | | | | | - 1 · | | 37 | | - | |
| 845 W.P.A. tost well 29 Feb. 11,1936 38 85 7 5 - | | | | | | | | _ | | | | • | |

a/ Sulphate less than 10 parts per million.

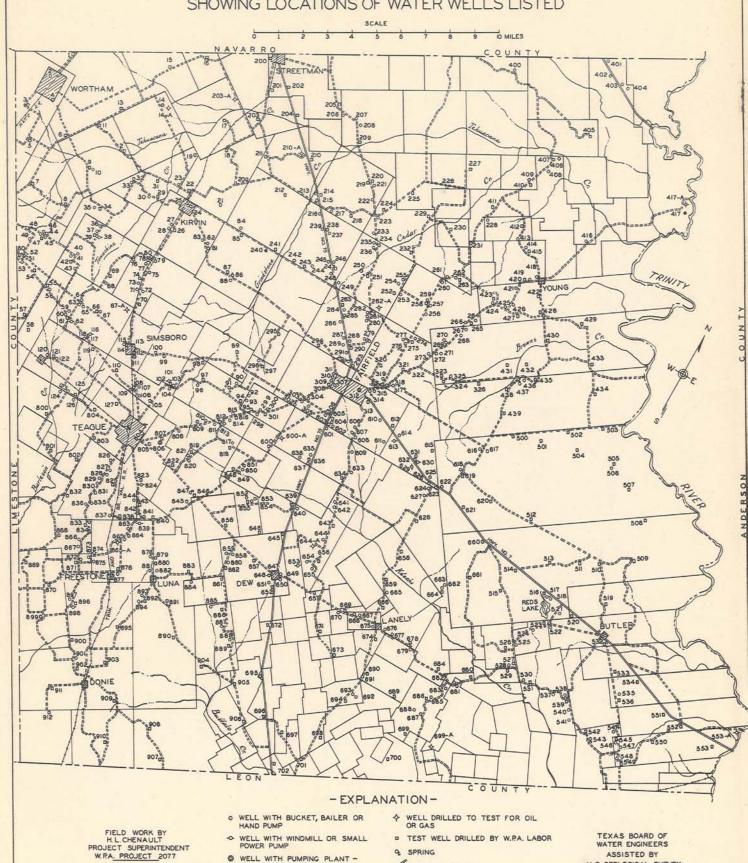
| mesuits are in parts per million. | | | | | | | | | | | |
|-----------------------------------|------------------|--------|--------------|------------|--------------|------------|--------------|------------|--------------------|------------|-------------|
| | Į. | Deptl | . 1 | Total | | Magnes- | Sodium and | Bicer- | | 1 | Total |
| Well | 4 Owner | of | Date | dissolve | | ium | Potassium | bonate | Sulphat | e Chloride | 1 |
| No. | 1 | well | of . | solids | (Ca) | (Mg) | (Na + K) | (HCO_3) | (S ⁰ 4) | (Cl) | as CaCO3 |
| | | (ft.) | | (calculate | ed), | | (calculated) | | 14 | <u> </u> | (calculated |
| 846 | W.P.A. test w ll | 24 | Feb. 5,1936 | 202 | _ | 7 | 62 | 25 | 24 | 84 | 28 |
| 847 | Wood Goolsby | Spring | $	ext{do.}$ | 57 | 1 | - | 225 | 37 | <u>a</u> / | 15 | 50 |
| 848 | W.P.A. test well | 29 | Mar. 13,1936 | 3,433 | 3 9 6 | 160 | 580 | | L , 095 | 870 | 1,650 |
| 349 | N. S. Curry | 17 | do. | 4,274 | 433 | 173 | 908 | 488 | 461 | 2,050 | 1,807 |
| 850 | do. | 38 | do. | 3,521 | 455 | 143 | 574 | 408 | 960 | 1,130 | 1,748 |
| 851 | do. | 47 | Mar. 13,1936 | 5,324 | 613 | 430 | 650 | 97 | 1,133 | 2,450 | 3,298 |
| 852 | Tillie McDonald | 29 | do. | 582 | 40 | 16 | 173 | 478 | 24 | 90 | 167 |
| 853 | Minnie McDonald | 48 | do. | 151 | 9 | 3 | 50 | 159 | <u>a</u> /, | 9 | 35 |
| 854 | do, | 24 | do. | 130 | 10 | 5 | 37 | 122 | \overline{a} / | 17 | 45 |
| 855 | W.P.A. test well | 29 | do. | 216 | 12 | 6 | 60 | 116 | ā/ 56 a/ | 24 | 56 |
| 856 | do. | 29 | Feb. 7, 1936 | 754 | 100 | 28 | 157 | 379 | a/ | 280 | 363 |
| 857 | | 23 | do. | 2,697 | 285 | 114 | 529 | 61 | 5 5 9 | 1,130 | 1,180 |
| | Smith Johnson | 37 | Mar.24, 1936 | 420 | | - | _ | 183 | 12 | 162 | |
| 859 | Oscar Johnson | 60 | do. | 737 | - | | , tes | 207 | 8 6 | 285 | - ! |
| 860 | Bill Moore | 35 | do. | 459 | 62 | 21 | 36 | 250 | 29 | 133 | 243 Ÿ |
| | Bob Moore | 38 | do. | 461 | - | _ | - | 232 | 48 | 130 | ' |
| 863 | Ben Biggs | 25 | Mar.11, 1936 | 1,056 | 85 | 38 | 272 | 314 | 19 | 485 | 371 |
| 864 | W.P.A test well | 30 | do. | 1,421 | 54 | 92 | _ | 794 | 151 | 400 | 778 |
| 865 | B. L. Seely | 59 | do . | | 421 | 29 | 65 | 195 | 36 | 140 | 252 |
| | W.M. Partin | 16 | May 15, 1936 | 796 | _ | | | 586 | 73 | 136 | |
| 867 | | 31 | do. | 157 | - | | - | 123 | <u>a</u> / | 33 | |
| 868 | W.P.A. test well | 34 | May 11, 1936 | 3,553 | 442 | 175 | 532 | 616 | 1,32Ī | 780 | 1,823 |
| 370 | | 19 | do. | 163 | | 5 | 56 | 55 | 42 | 3 8 | 20 |
| 371 | do. | 29 | Feb.24, 1936 | 292 | 19 | 8 | 345 | 36 | <u>a</u> / , | 137 | 80 |
| 872 | J. A. Allison | 33 | do. | 214 | 32 | 15 | 29 | 73 | _a/ | 102 | 142 |
| 873 | J. B. Sandifer | 28 | May 15, 1936 | 172 | - | 7 | 64 | 183 | $\overline{a}/$ | 11 | 27 |
| 874 | W. T. Beene | 35 | do. | 158 | - | _ | | 134 | | 31 | - |
| 375 | Mrs. Bert Wren | 22 | do. | 105 | _ | _ | - | 98 | <u>a</u> /. | 16 | - |
| 876 | W.P.A. test well | 17 | Mar.11, 1936 | 295 | _ | 23 | 83 | 159 | 3 2 | 78 | 93 |
| 877 | ± ' | 28 | do• | 1,144 | 34 | 15 | 412 | 903 | 60 | 172 | 147 |
| | A. W. Thompson | 18 | do. | 193 | 7 | 3 | 63 | 7 3 | 32 | 52 | 30 |
| | W. J. Shel.v | 32 | do . | 1,207 | 140 | 8 6 | 196 | 402 | 64 | 520 | 705 |
| | W.P.A. test well | 25 | do. | 1,168 | 1,48 | 46 | 318 | 61 | 201 | 525 | 310 |
| | F P. Norman | 16 | do. | 1,311 | 106 | 89 | 259 | 256 | 119 | 610 | 631 |

a/ Sulphate less than 10 parts per million.

Partial analyses of water from wells in Freestone County--Continued Results are in parts per million.

| | | | 10 | | | D2 D2 C C C D W | | | | |
|--------------------|--|---|--------------------------|---|--|---|---|--|---|--|
| | Total , | | Magnes-Sodium and Bicar- | | | | | Total | | |
| Owner | $\circ f$ | Date | dissolved | Calcium | ium | Potassium | bonate | Sulphate | Chloride | hardness |
|) } | well | of | solids | (Ca) | (Mg) | (Na + K) | (HCQ_3) | (SO_L) | (C1) | as CaCO3 |
| | | | (calculated) | } | | (calculated | .) | 4 | | (calculated |
| - Bowen | 37 | Mar. 11, 1936 | 122 | | 3 | 27 | 40 | 38 | 34 | 11 |
| Henry Daniels | 40 | | 377 | *** | - | - | 275 | 21 | 73 | |
| | | | • • | - | - | - | 85 | 15 | | - |
| | | | 44 | | - | - | 12 | 12 | | _ |
| Gilliam Poindexter | 71 | | 1,031 | 28 | 97 | 215 | | 411 | 150 | 470 |
| W.P.A. test well | 27 | | 528 | _ | - | - | | 57 | 110 | - |
| do. | 27 | Mar. 17, 1936 | | 464 | 173 | 840 | | 311 | 1,800 | 1,871 |
| L. E. Baty | 16 | do. | | 10 | 3 | 34 | 85 | <u>a</u> / | 29 | 35 |
| do∙ | 45 | do. | | 40 | | | 433 | | 250 | 208 |
| W.P.A. test well | 29 | Feb. 24, 1936 | | | 161 | | | | | 1,644 |
| D. F. Farrell | 16 | do∙ | 333 | | 6 | | 23 | 87 | | 118 |
| Doyle Newsome | 3 3 | do. | 798 | | 25 | | 153 | <u>a</u> /. | | 223 |
| Alvis Harris | 22 | do. | 256 | 2 0 | 6 | | 147 | ā/ | | 78 |
| V.P.A. test well | 23 | Feb. 25, 1936 | 4,054 | 389 | 196 | 880 | 408 | 15 | 2 , 370 | 1,779 |
| do. | 19 | May 25, 1936 | 353 | - | | - | 12 | 83 | 140 | - & |
| do. | 31 | do. | 721 | 31 | 25 | 205 | 79 | <u> </u> | 335 | <u> 180 Y`</u> |
| | - Bowen Henry Daniels F. Peterson Alice Jerden Gilliam Poindexter W.P.A. test well do. L. E. Baty do. W.P.A. test well O. F. Farrell Ooyle Newsome Alvis Harris V.P.A. test well do. | Owner of well (ft.) - Bowen 37 Henry Daniels 40 F. Peterson 7 Alice Jerden 27 Gillian Poindexter 71 W.P.A. test well 27 do. 27 L. E. Baty 16 do. 45 W.P.A. test well 29 D. F. Farrell 16 Doyle Newsome 33 Alvis Harris 22 V.P.A. test well 23 do. 19 | well of collection | Owner of well of solids (ft.) collection (calculated) - Bowen 37 Mar. 11, 1936 122 Henry Daniels 40 Mar. 24, 1936 377 F. Peterson 7 Mar. 25, 1936 134 Alice Jerden 27 Mar. 24, 1936 44 Gillian Poindexter 71 Mar. 25, 1936 1,031 W.P.A. test well 27 May 8, 1936 528 do. 27 Mar. 17, 1936 4,093 L. E. Baty 16 do. 343 W.P.A. test well 29 Feb. 24, 1936 3,962 O. F. Farrell 16 do. 333 Ocyle Newsome 33 do. 798 Alvis Harris 22 do. 256 V.P.A. test well 23 Feb. 25, 1936 4,054 do. 19 May 25, 1936 353 | Owner of well of solids (Ca) - Bowen 37 Mar. 11, 1936 122 - Henry Daniels 40 Mar. 24, 1936 377 - F. Peterson 7 Mar. 25, 1936 134 - Alice Jerden 27 Mar. 24, 1936 44 - Gilliam Poindexter 71 Mar. 25, 1936 1,031 28 W.P.A. test well 27 May 8, 1936 528 - co. 27 Mar. 17, 1936 4,093 464 L. E. Baty 16 do. 118 10 do. 45 do. 843 40 W.P.A. test well 29 Feb. 24, 1936 3,962 393 O. F. Farrell 16 do. 333 38 Ooyle Newsome 33 do. 798 88 Alvis Harris 22 do. 256 25 V.P.A. test well 23 Feb. 25, 1936 4,054 389 do. 19 May 25, 1936 353 - | Owner of well of solids (Ca) (Mg) (ft.) collection (calculated) - Bowen 37 Mar. 11, 1936 122 - 3 Henry Daniels 40 Mar. 24, 1936 377 | Owner of Date dissolved Calcium ium Potassium (Mg) (ft.) collection (calculated) (Ca) (Mg) (Na + K) (calculated) - Bowen 37 Mar. 11, 1936 122 - 3 27 Henry Daniels 40 Mar. 24, 1936 377 | Owner of well of solids (Ca) (Mg) (Na + K) (HCO ₃) (ft.) collection (calculated) (Ca) (Mg) (Na + K) (HCO ₃) (calculated) (Calculated) | Owner of well of (calculated) | Owner of well of collection of (ft.) collection (calculated) (Ca) (Mg) (Na + K) (HCO ₃) (SO ₄) (Cl) (Cl) (Calculated) (C |

MAP OF FREESTONE COUNTY, TEXAS SHOWING LOCATIONS OF WATER WELLS LISTED



WELL WITH PUMPING PLANT -5 HORSEPOWER OR LARGER

. FLOWING WELL O UNUSED WELL

BASE COMPILED FROM LAND OWNERSHIP MAP AND FIELD NOTES

IMPROVED ROAD

RAILROAD

SESS UNIMPROVED ROAD

U. S. GEOLOGICAL SURVEY