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HALE COUNTY, TEXAS

Records of wells, drillers' logs,
and water analyses, and map
showing location of wells.

* * *

by

W. L. Broadhurst, C. R. Follett, J. W. Lang,
B. G. Brigance, and G. H. Shafer

* * *

Prepared in cooperation with the United States Depart-
ment of the Interior, Geological Survey, the Bureau of
Industrial Chemistry of The University of Texas, the
Resettlement Administration, and the Works Progress
Administration ground-water survey project number 5072.

* * *

Austin, Texas
Apr. 14, 1938

HALE COUNTY, TEXAS

* * *

Introduction

by

Walter N. White

Senior Hydraulic Engineer

United States Department of the Interior
Geological Survey

This release contains records of wells and pumping plants in Hale County, Texas, together with tables of well logs, and well water analyses, and a map on which all the wells listed are shown, each well being given a number on the map corresponding to the number assigned to it in the well tables.

The records were obtained in the course of an investigation in the Texas High Plains comprising a part of state-wide studies of the ground-water resources of Texas. The field work was first started in 1934, a reconnaissance being made in that year and in a part of 1935, covering the southern part of the High Plains in Kansas, Oklahoma, Colorado and New Mexico, as well as in Texas. That investigation was made under the direction of C. V. Theis, Associate Geologist, Geological Survey, United States Department of the Interior, and was supported by an allocation of funds by the Administrator of Public Works. In 1936 considerable data on irrigation from wells in different parts of the Texas High Plains, including Hale County, were obtained by engineers of the Resettlement Administration. In the spring of 1937 a systematic quantitative study of the ground-water resources of the Texas High Plains was started by the Texas Board of Water Engineers in cooperation with the Geological Survey with funds appropriated by the Texas Legislature and nearly equal amounts contributed by the Federal government. The Works Progress Administration has assisted in this investigation in Hale County by contributing data on water wells obtained under Project No. 5072 of the Administrative Field Office at Lubbock.

Approximately 60 per cent of the records listed were obtained in the summer and fall of 1937 by W. L. Broadhurst, Joe W. Lang, and C. R. Follett in connection with the regular cooperative program. The remainder were obtained by B. G. Brigance and G. H. Shafer during the periods January 28 to September 25, and October 11 to December 10, 1937, through the Works Progress Administration project. A part of the irrigation well data gathered by the Resettlement Administration in 1936, has been incorporated in the records.

The analyses were made by chemists employed on Works Progress Administration Project 6507-5112, under the direction of Dr. E. P. Schoch, Director of the Bureau of Industrial Chemistry of The University of Texas, and E. W. Lehr, Chemist of the Quality of Water Division, Geological Survey. This release was typed and assembled by typists employed on the Works Progress Administration project which is sponsored by the Texas Board of Water Engineers, the Geological Survey, and the Bureau of Industrial Chemistry.

Thanks are due to the owners of wells and pumping plants in Hale County who have given their cordial cooperation and assistance. Several well drillers and representatives of different pump companies also have contributed freely of their information. Acknowledgment is due the office of the Works Progress Administration at Lubbock for their cordial interest and cooperation; the Hale County Commissioners' Court gave substantial help by furnishing transportation for the Works Progress Administration workers.

Records of wells in Hale County, Texas

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

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

| No. | Distance from Hale Center | Section | Survey, Block | Owner | Driller | Date completed | Depth of well (ft.) | Diameter of well (in.) |
|-----|---------------------------|------------|--------------------------|-------------------|----------------|----------------|---------------------|------------------------|
| 1 | 20½ miles northwest | 17, NW¼NW¼ | E.L.& R.R.R.R., blk. S 1 | E. C. Abernathy | — Moore | 1936 | 185 | 16 |
| 2 | 18½ miles northwest | 15, NW¼SW¼ | do. | W. J. Howell | J. C. Cook | 1931 | 152 | — |
| 3 | 17½ miles northwest | 10, SE¼SW¼ | K 3 | J. O. Bass | — | 1937 | 220 | — |
| 4 | 17 miles northwest | 7, NW¼NW¼ | E.L.& R.R.R.R., blk. S 1 | Mrs. Carl Goodman | H. L. Bartlett | 1937 | 210 | 15½ |
| 5 | 16 miles northwest | 7, SW¼SE¼ | do. | do. | — | — | 34 | — |
| 6 | 17 miles north | 55, NW¼NW¼ | L.& S.V.R.R., blk. K | J. H. Hatfield | — | 1936 | 210 | — |
| 7 | 16½ miles north | 5, NW¼NW¼ | E.L.& R.R.R.R., blk. S 1 | S. C. Hutchinson | — | 1927 | 130 | 16 |
| 8 | do. | 5, NE¼NW¼ | do. | do. | — | 1927 | 48 | 16 |
| 9 | 16 miles north | 5, SE¼NW¼ | do. | do. | — | Old | 59 | 6 |
| 10 | do. | 5, SE¼SW¼ | do. | do. | — | 1927 | — | — |
| 11 | do. | 5, NE¼SE¼ | do. | do. | — | — | — | — |
| 12 | 15½ miles north | 4, NW¼NE¼ | do. | do. | — | 1927 | — | — |
| 13 | do. | 4, NE¼NW¼ | do. | do. | — | 1927 | — | — |
| 14 | 15 miles north | 4, NE¼SW¼ | do. | do. | — | 1927 | 130 | 16 |
| 15 | 15 miles northwest | 4, SW¼SW¼ | do. | do. | — | 1927 | 100 | — |
| 16 | do. | 8, SW¼NE¼ | do. | — Cattle Co. | — | Old | 60 | 6 |
| 17 | 15½ miles northwest | 8, SW¼SW¼ | do. | do. | — | Old | 51 | 4½ |
| 18 | 14½ miles northwest | 2, SW¼SW¼ | E.L.& R.R.R.R., blk. O 6 | E. F. Witten | G. Garms | 1935 | 210 | 21 |
| 19 | do. | 3, SE¼SE¼ | do. | H. H. Hensley | — | 1925 | 87 | 6 |

a/ Measuring point was usually top of casing, pump base, pipe clamp, or well curb. Point was above ground unless below ground indicated by minus (-) sign.

b/ T, turbine; Cf, centrifugal; C, cylinder; E, electric; G, gasoline; O, diesel or oil; Ng, natural gas; W, windmill; H, hand; number indicates horsepower.

Records obtained by B. G. Brigance and G. H. Shafer, W.P.A. Project Superintendents; W. L. Broadhurst, J. W. Lang and C. R. Follett, Texas Board of Water Engineers; and R. Donnan, Resettlement Administration.

(Chemical analyses of water from these wells are in the table of analyses.)

| No. | Height of measuring point above ground (ft.) a/ | Water Level | | Pump and power b/ | Use of water c/ | Remarks |
|-----|---|-----------------------------------|---------------------|-------------------|-----------------|--|
| | | Depth below measuring point (ft.) | Date of measurement | | | |
| 1 | 1 | 64.9 | Nov. 30, 1937 | C,G, 85 | I | Reported 50 feet drawdown after pumping 800 gallons a minute for 3 hours. 64 feet 15-inch; 48 feet 14-inch; 64 feet 12-inch casing. Water sands reported: 64 feet, 72 feet, 97 feet, |
| 2 | — | 20 | d/ | T,O, 50 | I | Reported 147 feet, and 170 to 184 feet. yield, 1,500 gallons a minute. Pump set at 50 feet. Reported pumped only 18 hours in |
| 3 | 1 | 65.6 | Oct. 6, 1937 | C,G, 85 | I | Reported yield, 1,250 to 1,300 gallons a minute. Irrigated 105 acres in 1937. Broken red sand reported, 65 to 220 feet. |
| 4 | — | 60 | d/ | C,G, 85 | I | Reported yield, 1,300 gallons a minute. Irrigated 645 acres in 1937. 150 feet 15½-inch casing, 60 feet 12½-inch casing. "Red Beds" reported 210 feet. See log. |
| 5 | 0.5 | 25.8 | Aug. 19, 1937 | None | N | No casing. |
| 6 | — | — | — | C,G, — | I | Reported yield, 850 gallons a minute. Irrigated 155 acres in 1937. Pump set at 100 feet. |
| 7 | 0.5 | 58.6 | Sept. 1, 1937 | T,G, — | I | Reported yield, 450 gallons a minute. Irrigated 75 acres in 1937. |
| 8 | 0.8 | 53.8 | do. | None | N | 16-inch steel casing from water level to bottom of well. |
| 9 | 0 | 49 | Aug. 19, 1937 | None | N | Located near draw. |
| 10 | 1.3 | 25.1 | Sept. 1, 1937 | None | N | |
| 11 | 0 | 37.6 | Apr. 25, 1936 | C,W | D | Located near draw. |
| 12 | 1 | 41.1 | Sept. 1, 1937 | None | N | |
| 13 | 1.5 | 22.8 | do. | None | N | |
| 14 | — | 52 | do. | T,G, — | I | Reported yield, 1,200 gallons a minute. Irrigated 474 acres in 1937. 16-inch casing, 63 to 130 feet. Pump set at 70 feet. |
| 15 | 0.5 | 57.8 | Aug. 19, 1937 | None | N | Drilled as irrigation well but not used. |
| 16 | 0.2 | 47.8 | do. | None | N | |
| 17 | 0.4 | 44.4 | Sept. 1, 1937 | None | N | Concrete curb; no casing. |
| 18 | 1.5 | 75.1 | Aug. 14, 1937 | T,O, 62 | I | Measured yield, 1,725 gallons a minute. Irrigated 577 acres in 1937. 210 feet steel casing. "Red Beds" reported at 200 feet. |
| 19 | 0.3 | 73.9 | Oct. 11, 1937 | C,W | D,S | Concrete curb; galvanized casing. |

c/ P, public; D, domestic; I, irrigation; S, stock; N, not used.
d/ Water level reported.

Records of wells in Hale County--Continued

| No. | Distance from Hale Center | Section | Survey, Block | Owner | Driller | Date completed | Depth of well (ft.) | Diameter of well (in.) |
|-----|----------------------------------|---------------------------------------|---------------------------|---------------------------|----------------------------|----------------|---------------------|------------------------|
| 20 | 14 miles northwest | 9, SW $\frac{1}{2}$ NW $\frac{1}{4}$ | E.L. & R.R.R.R., blk. O 6 | Thomas Lewellen | Green Machinery Co. | 1933 | 201 | 14 |
| 21 | 15 $\frac{1}{2}$ miles northwest | 6, SW $\frac{1}{2}$ SW $\frac{1}{4}$ | do. | Kansas City Life Ins. Co. | -- | -- | 83 | -- |
| 22 | 16 $\frac{1}{2}$ miles northwest | 5, SW $\frac{1}{2}$ NW $\frac{1}{4}$ | do. | E. D. Smith | -- | 1937 | 95 | -- |
| 23 | 18 $\frac{1}{2}$ miles northwest | 2, NW $\frac{1}{4}$ SE $\frac{1}{4}$ | E.L. & R.R.R.R., blk. M 0 | Sam E. Clark | G. Garms | 1936 | 222 | 18 |
| 24 | do. | 2, NW $\frac{1}{2}$ SW $\frac{1}{4}$ | do. | L. R. Vaughn | Green Machinery Co. | 1935 | 196 | 15 |
| 25 | do. | 3, NW cor. NE $\frac{1}{4}$ | D. & S.E.R.R., blk. S 4 | T. F. Moss | do. | 1937 | 200 | 16 |
| 26 | do. | 4, SE cor. SE $\frac{1}{4}$ | do. | J. H. Real | -- | -- | 58+ | -- |
| 27 | 17 $\frac{1}{2}$ miles northwest | 9, NW $\frac{1}{2}$ NW $\frac{1}{4}$ | do. | L. V. Howell | Green Machinery Co. | 1937 | 202 | 16 |
| 28 | 17 miles northwest | 17, SE cor. SW $\frac{1}{4}$ | do. | O. M. Parks | -- | 1917 | 111 | -- |
| 29 | 15 $\frac{1}{2}$ miles northwest | 12, SE cor. NE $\frac{1}{4}$ | D. & S.E.R.R., blk. O 2 | J. L. Martin | -- | -- | -- | -- |
| 30 | 15 miles northwest | 12, SE cor. SE $\frac{1}{4}$ | do. | do. | -- | -- | 81 | 6 |
| 31 | 14 $\frac{1}{2}$ miles northwest | 36, SW cor. NW $\frac{1}{4}$ | D. & S.E.R.R., blk. 0 | Westside School | -- | -- | 50 | -- |
| 32 | 13 $\frac{1}{2}$ miles northwest | 36, SE cor. SE $\frac{1}{4}$ | do. | -- Jeffers | -- | 1917 | 85 | -- |
| 33 | 12 $\frac{1}{2}$ miles northwest | 24, NW $\frac{1}{2}$ NE $\frac{1}{4}$ | do. | E. T. Hines | J. C. Cook | 1936 | 216 | 19 $\frac{1}{2}$ |
| 34 | do. | 13, SW $\frac{1}{2}$ NW $\frac{1}{4}$ | do. | T. L. Shropshire | do. | 1935 | 213 | 16 |
| 35 | 12 miles northwest | 13, SE $\frac{1}{2}$ NW $\frac{1}{4}$ | do. | J. E. Shropshire | Green Machinery Co. | 1937 | 204 | 16 |
| 36 | 12 $\frac{1}{2}$ miles northwest | 18, SW cor. NE $\frac{1}{4}$ | E.L. & R.R.R.R., blk. O 6 | G. D. Lewellen | -- | 1934 | 199 | 15 |
| 37 | 12 miles northwest | 19, NW $\frac{1}{2}$ SW $\frac{1}{4}$ | do. | do. | -- | -- | 75 | 4 $\frac{1}{2}$ |
| 38 | 10 $\frac{1}{2}$ miles northwest | 1, cen. SE $\frac{1}{4}$ | D. & S.E.R.R., blk. 0 | E. H. Kirkoff | -- Exploration Co. of Tex. | 1928 | 3,800 | -- |
| 39 | 14 miles northwest | 36, SE $\frac{1}{2}$ SW $\frac{1}{4}$ | do. | W. L. Hurt | -- | -- | 61 | -- |
| 40 | 17 miles northwest | 12, NW $\frac{1}{2}$ NW $\frac{1}{4}$ | D. & S.E.R.R., blk. S 4 | J. A. Johnson | -- | 1930 | 84 | 5 |
| 101 | 17 miles north | 52, NW cor. NW $\frac{1}{4}$ | L. & S.V.R.R., blk. K | E. M. Carter | Baker Pump Co. | 1937 | 345 | -- |
| 102 | 16 miles north | 6, SW $\frac{1}{2}$ NW $\frac{1}{4}$ | blk. C 4 | Ed. Duvall | -- | -- | -- | 4 $\frac{1}{2}$ |
| 103 | do. | 8, NE $\frac{1}{2}$ SE $\frac{1}{4}$ | do. | Carl Meyer | Green Machinery Co. | 1934 | 204 | 16 |

| No. | Height of measuring point above ground (ft.) a/ | Water Level | | Pump and power b/ | Use of water c/ | Remarks |
|-----|---|-----------------------------------|---------------------|-------------------|-----------------|---|
| | | Depth below measuring point (ft.) | Date of measurement | | | |
| 20 | — | 64 | d/ | T,G, 47 | I | Reported yield, 825 gallons a minute. Irrigated 171 acres in 1937. 171 feet steel casing. Pump-set at 96 feet. |
| 21 | 0.3 | 73.2 | Oct. 11, 1937 | C,W | D,S | |
| 22 | 0.5 | 78.7 | do. | C,W | D,S | Measured while pumping. |
| 23 | — | 84 | d/ | T,G, 85 | I | Reported yield, 850 gallons a minute. Irrigated 160 acres in 1937. 89 feet 18-inch casing, 120 feet 16-inch casing, 113 feet 14-inch casing. "Red Beds" at 222 feet. |
| 24 | 3 | 93.6 | Aug. 31, 1937 | T,O, 50 | I | Reported yield, 1,200 gallons a minute from red sand, 145 to 180 feet. Irrigated 275 acres in 1937. 40 feet 15-inch casing, 40 feet 12-inch casing, 55 feet 11-inch casing. |
| 25 | 3.2 | 90.1 | do. | T,G, 85 | I | Reported yield, 800 "Red Beds" at 222 feet. gallons a minute. Irrigated 100 acres cotton |
| 26 | 0.5 | 56.4 | Oct. 11, 1937 | C,W | D,S | land feed in 1937. |
| 27 | 5 | 74.8 | do. | T,G, 85 | I | Reported yield, 800 gallons a minute. Pump set at 108 feet; 20 feet of suction pipe. |
| 28 | 1 | 84.5 | do. | C,W | D,S | Reported strong supply. |
| 29 | — | 48 | d/ | C,W | D,S | Caved in. |
| 30 | 0.6 | 68.5 | July 23, 1937 | C,W | D,S | Large lake $\frac{1}{2}$ mile north. |
| 31 | — | — | — | C,W | P | |
| 32 | — | 66 | d/ | C,W | D,S | |
| 33 | 1.2 | 93.8 | Sept. 1, 1937 | T,G, 55 | I | Reported yield, 1,000 gallons a minute. Irrigated 212 acres in 1937. See log. |
| 34 | — | 89 | d/ | T,G, 50 | I | Reported yield, 800 to 900 gallons a minute. Irrigated 190 acres in 1937. "Red Beds" at |
| 35 | — | — | — | T,G, 85 | I | Reported yield, 1,000 gallons a 213 feet. minute. Irrigated 130 acres in 1937. |
| 36 | 0.4 | 77.9 | May 19, 1936 | T,G, — | I | Reported yield 800 gallons a minute. Irrigated 264 acres in 1937. See log. |
| 37 | 0 | 66.1 | do. | C,W | D | |
| 38 | — | — | — | — | — | Oil test. Reported altitude, 3,480 feet. See log. |
| 39 | 1 | 52.4 | Nov. 6, 1937 | C,W | D,S | |
| 40 | 0.5 | 73.2 | do. | C,W | D,S | |
| 101 | — | — | — | T,G, 85 | I | Irrigated 300 acres in 1937. No casing in well. 10-inch column pipe; pump set 120 feet; 5-stage pump with 60 feet of suction pipe. |
| 102 | 0 | 48.9 | May 3, 1937 | C,W | D,S | Near dry lake. |
| 103 | 2 | 50.6 | Apr. 24, 1936 | T,G, — | I | Reported yield, 900 gallons a minute. Irrigated 140 acres in 1937. |

Records of wells in Hale County--Continued

| No. | Distance from Hale Center | Section | Survey, Block | Owner | Driller | Date completed | Depth of well (ft.) | Diameter of well (in.) |
|-----|------------------------------|---------------------------------------|---|---------------------|---------------------|----------------|---------------------|------------------------|
| 104 | 15 miles north | 31, cen. SE $\frac{1}{4}$ | E.L. & R.R.R.R., blk. S 1 $\frac{1}{2}$ | H. M. Hunt | Carl Mangum | 1937 | 186 | 16 |
| 105 | 14 miles north | 27, NW $\frac{1}{4}$ SW $\frac{1}{4}$ | do. | T.L. & D. Co. | M. A. Patton | 1937 | 290 | 24 |
| 106 | do. | do. | do. | do. | -- | 1917 | 272 | 26 |
| 107 | 14 $\frac{1}{2}$ miles north | 25, NW $\frac{1}{4}$ SW $\frac{1}{4}$ | do. | A. J. Duerksen | -- | 1937 | 150 | -- |
| 108 | 13 $\frac{1}{2}$ miles north | 14, NW $\frac{1}{4}$ SE $\frac{1}{4}$ | Tyler Tap R.R., blk. J K | H. Lloyd | -- | -- | -- | -- |
| 109 | do. | 13, NE $\frac{1}{4}$ NW $\frac{1}{4}$ | do. | Ed Kiser | -- Bartlett | 1936 | 204 | 16 |
| 110 | 13 miles north | 13, SE $\frac{1}{4}$ SW $\frac{1}{4}$ | do. | do. | -- | Old | 51 | -- |
| 111 | do. | 2, NW $\frac{1}{4}$ SE $\frac{1}{4}$ | do. | T.L. & D. Co. | T.L. & D. Co. | 1916 | 272 | 24 |
| 112 | 12 $\frac{1}{2}$ miles north | 11, NW $\frac{1}{4}$ NW $\frac{1}{4}$ | do. | C. Zelmer | -- | Old | 81 | 4 $\frac{1}{2}$ |
| 113 | 12 miles north | 17, SE $\frac{1}{4}$ SE $\frac{1}{4}$ | do. | H. L. Gunter | D. Loughborough | 1936 | 200 | 20 |
| 114 | 13 miles north | 17, NW $\frac{1}{4}$ NW $\frac{1}{4}$ | do. | T. S. Walker | Cook & Pate | 1935 | 185 | -- |
| 115 | 13 $\frac{1}{2}$ miles north | 16, NW $\frac{1}{4}$ NE $\frac{1}{4}$ | do. | H. L. Gunter | -- | -- | -- | -- |
| 116 | do. | 16, NW $\frac{1}{4}$ NW $\frac{1}{4}$ | do. | do. | Cook & Pate | 1937 | 200 | 20 |
| 117 | 12 miles north | 20, NW $\frac{1}{4}$ NE $\frac{1}{4}$ | do. | F. E. Hill | -- | -- | -- | -- |
| 118 | 11 miles north | 9, NW $\frac{1}{4}$ SW $\frac{1}{4}$ | do. | R. E. Dennis | Green Machinery Co. | 1936 | 200 | -- |
| 119 | do. | 5, NW $\frac{1}{4}$ SW $\frac{1}{4}$ | do. | A. A. Huntington | -- | -- | 34 | -- |
| 120 | do. | 5, NE $\frac{1}{4}$ SE $\frac{1}{4}$ | do. | G. H. Saigling | -- | -- | -- | -- |
| 121 | 10 $\frac{1}{2}$ miles north | 6, Cen. NW $\frac{1}{4}$ | do. | Mrs. G. W. Starnes | W. M. Starnes | 1928 | 175 | -- |
| 122 | 10 miles north | 7, SW $\frac{1}{4}$ NE $\frac{1}{4}$ | do. | G. W. Cross | -- | -- | 35 | -- |
| 123 | 11 miles north | 24, NW cor. NE $\frac{1}{4}$ | do. | L. C. Wayland | -- | 1915 | 280 | 72 |
| 124 | 9 $\frac{1}{2}$ miles north | 4, NW cor. NW $\frac{1}{4}$ | blk. J K 4 | J. F. Watson | -- | Old | 69 | -- |
| 125 | 10 miles northwest | 1, SE $\frac{1}{4}$ SW $\frac{1}{4}$ | do. | E. E. Clark | -- | -- | -- | 4 $\frac{1}{2}$ |
| 126 | 12 $\frac{1}{2}$ miles north | 12, SW $\frac{1}{4}$ SW $\frac{1}{4}$ | Tyler Tap R.R., blk. J K | Runningwater School | -- | -- | -- | -- |
| 201 | 17 miles north | 2, NE $\frac{1}{4}$ NE $\frac{1}{4}$ | blk. R H | J. R. Drake | -- | -- | 65 | 4 |

| No. | Height of measuring point above ground (ft.) a/ | Water Level | | Pump and power b/ | Use of water c/ | Remarks |
|-----|---|-----------------------------------|---------------------|-------------------|-----------------|--|
| | | Depth below measuring point (ft.) | Date of measurement | | | |
| 104 | — | — | — | T,G, 85 | I | Reported yield, 1,000 gallons a minute. Irrigated 255 acres in 1937. 120 feet of 16-inch casing at top; pump set at 80 feet; 20 feet |
| 105 | 0.7 | 52.9 | July 28, 1937 | T,O, 60 | I | New well drilled 150 feet of suction pipe. southeast of well 106 on Highway right-of-way. 104 feet of 24-inch casing; 178 feet |
| 106 | 1.3 | 50.1 | Apr. 18, 1934 | T,O, 60 | I | Well now abandoned and of 13½-inch casing. filled up. Irrigated 175 acres in 1937. Re- |
| 107 | 1.5 | 57.4 | Aug. 12, 1937 | T,G, 40 | I | Reported yield, 1,000 gallons a minute. Reported yield, 1,300 gallons a minute. Irri- |
| 108 | — | — | — | T,G, 85 | I | Reported yield, 800 gallons a minute. Irrigated 50 acres in 1937. Irrigated 290 acres in |
| 109 | — | — | — | T,G, 85 | I | Reported yield, 800 gallons a minute. 1937. Irrigated 230 acres in 1937. "Red Beds" at |
| 110 | 0.5 | 39.7 | Aug. 19, 1937 | C,W | D,S | 200 feet. |
| 111 | — | 59 | d/ | T,O, — | I | Measured yield, 935 gallons a minute by Re-settlement Administration in 1936. Irri-gated 226 acres in 1937. 22-inch pump set |
| 112 | 0.8 | 52.6 | Aug. 19, 1937 | C,W | N | at 78 feet. |
| 113 | — | 65 | d/ | T,G, 60 | I | Reported yield, 1,000 gallons a minute with 40 feet drawdown. Irrigated 217 acres in 1937. Pump set at 94 feet; 20 feet of suc- |
| 114 | — | — | — | T,G, 85 | I | Reported yield, 1,100 gallons a minute. Irrigated 280 acres in 1937. Pump set at 80 feet; 20 feet of suction pipe. |
| 115 | 0 | 53.2 | Apr. 25, 1936 | C,W | D,S | |
| 116 | — | — | — | T,G, 85 | I | Reported yield, 800 gallons a minute. Irri-gated 380 acres in 1937. Pump set at 90 |
| 117 | — | — | — | C,W | D,S | 500 feet feet; 10 feet of suction pipe. east of dry lake. |
| 118 | — | — | — | T,G, 85 | I | Reported yield, 1,000 gallons a minute. Irri-gated 200 acres in 1937. |
| 119 | 0 | 23.6 | Aug. 19, 1937 | None | N | |
| 120 | 0 | 41.1 | Apr. 25, 1936 | C,W | S | |
| 121 | 0 | 21 | 1937 d/ | Cf,G, 80 | I | Reported yield, 1,200 gallons a minute. Irrigated 165 acres in 1937. |
| 122 | 0 | 28.3 | Aug. 19, 1937 | None | N | |
| 123 | 0.5 | 60.3 | Apr. 21, 1936 | T,G, 85 | I | Dug well, redrilled. Reported yield, 700 gallons a minute. Irrigated 113 acres in |
| 124 | 0.3 | 57.7 | July 23, 1937 | C,W | S | 1937. |
| 125 | 1 | 80.5 | June 15, 1937 | C,W | S | |
| 126 | — | — | — | C,W | P | Located on north bank of Running-water Draw. |
| 201 | 1 | 60.1 | July 17, 1937 | C,W | D,S | |

Records of wells in Hale County—Continued

| No. | Distance from Hale Center | Section | Survey, Block | Owner | Driller | Date completed | Depth of well (ft.) | Diameter of well (in.) |
|-----|----------------------------------|---------------------------------------|-----------------------------|----------------|---------------------|----------------|---------------------|------------------------|
| 202 | 17 miles north | 20, NW $\frac{1}{4}$ NE $\frac{1}{4}$ | Tyler Tap R.R., blk. C 3 | T.L. & D. Co. | T.L. & D. Co. | 1916 | 270 | 24 |
| 203 | 16 $\frac{1}{2}$ miles north | Southside | Thomas Murphy | do. | do. | 1916 | 253 | 24 |
| 204 | 17 miles north | NW $\frac{1}{4}$ | L. A. Garlington | do. | do. | 1916 | 270 | 24 |
| 205 | do. | 4, NW cor. NW $\frac{1}{4}$ | C. C. C. blk. H | O. Richardson | — | Old | — | — |
| 206 | 18 miles north | NE $\frac{1}{4}$ | Richard Williams | T.L. & D. Co. | T.L. & D. Co. | 1916 | 165 | 24 |
| 207 | 17 $\frac{1}{2}$ miles north | — | R. F. Hudgins | J. K. Crues | Chas. King | 1937 | 186 | — |
| 208 | 17 $\frac{1}{2}$ miles northeast | — | J. P. Lattimore | T.L. & D. Co. | T.L. & D. Co. | 1917 | 265 | 26 |
| 209 | 18 miles northeast | — | do. | do. | do. | 1915 | 189 | 24 |
| 210 | 18 $\frac{1}{2}$ miles northeast | — | D. R. McVickers | do. | do. | 1914 | 206 | 24 |
| 211 | do. | 55, NW $\frac{1}{4}$ SW $\frac{1}{4}$ | E.L. & R.R.R.R., blk. M 14 | do. | do. | 1915 | 223 | 24 |
| 212 | 18 miles northeast | — | D. R. McVickers | do. | do. | 1914 | 171 | 24 |
| 213 | 17 $\frac{1}{2}$ miles northeast | — | W. W. Snell | do. | do. | 1915 | 210 | 26 |
| 214 | do. | — | F. M. Drake | do. | do. | 1917 | 256 | 24 |
| 215 | 17 miles northeast | 5, NW $\frac{1}{4}$ NE $\frac{1}{4}$ | G.C. & S.F.R.R., blk. J K 3 | C. I. Keisling | — | 1917 | 200 | 19 |
| 216 | 16 $\frac{1}{2}$ miles north | 5, NW $\frac{1}{4}$ NW $\frac{1}{4}$ | do. | T. H. Anderson | — | 1937 | 193 | — |
| 217 | do. | 4, NW $\frac{1}{4}$ NE $\frac{1}{4}$ | do. | B. W. Wilks | — | 1916 | 256 | — |
| 218 | do. | 4, NW $\frac{1}{4}$ NW $\frac{1}{4}$ | do. | T.L. & D. Co. | T.L. & D. Co. | 1916 | — | — |
| 219 | 16 miles north | 4, NW $\frac{1}{4}$ SE $\frac{1}{4}$ | do. | do. | do. | 1916 | 251 | 24 |
| 220 | 15 $\frac{1}{2}$ miles north | 3, NW $\frac{1}{4}$ NE $\frac{1}{4}$ | do. | do. | do. | 1916 | 252 | 24 |
| 221 | 15 miles north | 3, SW $\frac{1}{4}$ NW $\frac{1}{4}$ | do. | do. | do. | 1917 | 270 | 24 |
| 222 | do. | 3, NW $\frac{1}{4}$ SW $\frac{1}{4}$ | do. | C. B. White | Green Machinery Co. | 1937 | 227 | — |
| 223 | 14 $\frac{1}{2}$ miles north | 18, NW $\frac{1}{4}$ SE $\frac{1}{4}$ | T. T. R. R., blk. C 3 | T.L. & D. Co. | T.L. & D. Co. | 1916 | 273 | 24 |
| 224 | 15 miles north | 18, NW $\frac{1}{4}$ NE $\frac{1}{4}$ | do. | Lloyd Phillip | — Green | 1937 | 228 | — |

| No. | Height of measuring point above ground (ft.) a/ | Water Level | | Pump and power b/ | Use of water c/ | Remarks |
|-----|---|-----------------------------------|---------------------|-------------------|-----------------|---|
| | | Depth below measuring point (ft.) | Date of measurement | | | |
| 202 | 1.5 | 64.1 | Apr. 18, 1934 | T, O, — | I | Irrigated 205 acres in 1937. Water level when drilled, 61 feet below ground. 3-stage, 22-inch, pump set at 80 feet. |
| 203 | 1.1 | 66.3 | Sept. 14, 1937 | None | N | 22-inch pump set at 81 feet. |
| 204 | 1.5 | 68.5 | Sept. 13, 1937 | T, O, 45 | I | Reported yield, 700 gallons a minute. Irrigated 118 acres in 1937. Pump set at 86 |
| 205 | — | — | — | None | N | feet. |
| 206 | 0.5 | 70.7 | May 11, 1936 | T, O, — | I | Northwest of well 207. Reported yield, 800- to 1,000 gallons a minute. Irrigated 163 acres in 1937. Pump set at 90 feet. |
| 207 | — | 75 | d/ | T, G, 85 | I | Reported yield, 900 gallons a minute. Irrigated 75 acres in 1937. |
| 208 | 3.3 | 68.7 | Sept. 14, 1937 | T, O, 45 | I | Reported yield, 1,100 gallons a minute. |
| 209 | 2 | 69 | Sept. 15, 1937 | T, O, 45 | I | Reported yield, 900 gallons a minute. Irrigated 70 acres in 1937. Pump set at 80 feet. |
| 210 | 1.5 | 66.2 | do. | T, —, — | I | Reported unused since 1933. Pump set at 90 feet. Located in Swisher County, near county |
| 211 | 3 | 67.7 | Sept. 16, 1937 | T, O, — | I | Reported yield, 700 to 800 gallons a minute. Irrigated 80 acres in 1937. Pump |
| 212 | — | 51.5 | 1914 d/ | T, O, 45 | I | Reported yield, 800 gal- set at 90 feet. lons a minute. Irrigated 117 acres in 1937. |
| 213 | 1.2 | 63.7 | Sept. 15, 1937 | T, O, 45 | I | Reported yield, 800 Pump set at 85 feet. gallons a minute. Irrigated 86 acres in |
| 214 | 4 | 60.6 | Sept. 14, 1937 | T, O, — | I | Reported yield, 1,937. Pump set at 75 feet. 1,200 gallons a minute. Partially irrigated 189 acres in 1937. Pump set at 80 feet. |
| 215 | 1 | 63.9 | Sept. 13, 1937 | T, O, 75 | I | Reported 35 feet drawdown pumping about 1,200 gallons a minute. Irrigated 120 acres in 1937. Casing: 72-inch concrete, 0 to 10 feet; uncased 10 to 58 feet; 75 feet 19-inch |
| 216 | — | 60 | d/ | C, G, 40 | I | Reported 34 feet drawdown pumping casing. 600 to 700 gallons a minute. Irrigated 153 |
| 217 | 5 | 70.9 | Sept. 13, 1937 | T, G, 50 | I | Reported yield, 1,000 gallons acres in 1937. a minute. Irrigated 125 acres in 1937. Pump |
| 218 | 1 | 66.9 | Sept. 15, 1937 | T, Ng, — | I | Reported yield, 1,400 gallons set at 80 feet. a minute. Irrigated 109 acres in 1937. Pump |
| 219 | — | 53.5 | 1916 d/ | T, Ng, — | I | Reported yield, 800 gallons set at 78 feet. a minute. Irrigated 194 acres in 1937. Pump |
| 220 | 1 | 55.8 | Sept. 13, 1937 | T, O, — | I | Reported yield, 1,200 gal- set at 80 feet. lons a minute. Irrigated 174 acres in 1937. |
| 221 | 0.3 | 53.2 | do. | T, Ng, 60 | I | Reported yield, 900 to Pump set at 79 feet. 1,000 gallons a minute. Irrigated 102 acres in 1937. Pump set at 75 feet. |
| 222 | — | 50 | d/ | C, G, — | I | Reported yield, 900 gallons a minute. Irrigated 265 acres in 1937. Pump set at 84 feet. |
| 223 | 1.7 | 55.2 | May 3, 1937 | T, O, — | I | Reported yield, 1,000 gallons a minute. Reported irrigates about 1 acre per hour. Pump |
| 224 | 1 | 57.4 | Aug. 7, 1937 | C, G, 85 | I | Reported 21 feet drawdown set at 80 feet. after pumping 900 gallons a minute for 12 hours. Irrigated 116 acres in 1937. |

Records of wells in Hale County—Continued

| No. | Distance from Hale Center | Section | Survey, Block | Owner | Driller | Date completed | Depth of well (ft.) | Diameter of well (in.) |
|-----|---------------------------|--------------|-----------------------------|--------------------|---------------------|----------------|---------------------|------------------------|
| 225 | 15½ miles north | 12, SW¼NW¼ | T. T. R. R., blk. C 3 | — | — | — | — | — |
| 226 | 16 miles north | 10, SW¼SE¼ | do. | — | — | — | — | — |
| 227 | 15 miles north | 9, NW¼SE¼ | do. | R. D. Crawford | — | 1936 | 210 | — |
| 228 | 13 miles north | 4, SW¼NW¼ | do. | C. E. Carter | — | 1937 | 232 | 16 |
| 229 | 11½ miles north | 5, SW¼SE¼ | do. | — | — | — | — | — |
| 230 | 11 miles north | 1, NE¼SE¼ | G.C. & S.F.R.R., blk. J K 2 | — | — | — | — | — |
| 231 | 13½ miles northeast | 1, SW¼NE¼ | G.C. & S.F.R.R., blk. J K 3 | M. Hutchinson | — | — | — | — |
| 232 | do. | 1, NW¼NW¼ | do. | do. | — | — | — | — |
| 233 | do. | 2, SW¼SW¼ | G.C. & S.F.R.R., blk. J K 2 | L. J. Halbert | — | 1935 | — | — |
| 234 | 14½ miles northeast | 2, NW¼NE¼ | G.C. & S.F.R.R., blk. J K 3 | do. | — | 1930 | 236 | 24 |
| 235 | do. | 7, NW¼SE¼ | do. | A. B. Martin | Green Machinery Co. | 1936 | 160 | 14 |
| 236 | do. | 9, NW¼NW¼ | do. | Henry J. Freese | M. A. Patton | 1936 | 218 | 14 |
| 237 | 14 miles northeast | 8, SE¼NE¼ | do. | — | — | — | — | — |
| 238 | 13½ miles northeast | 8, SE¼SW¼ | do. | Dr. Howell | — | 1914 | 180 | 26 |
| 239 | 12½ miles northeast | 25, cen. NE¼ | G.C. & S.F.R.R., blk. J K 2 | Homer Rock | — | 1934 | 172 | 14 |
| 240 | 13 miles northeast | 36, NW¼NW¼ | do. | J. H. Meyer | J. H. Meyer | 1933 | 102 | — |
| 241 | do. | 36, NE¼SE¼ | do. | Mrs. J. J. Simpson | — Wood | 1934 | 198 | 16 |
| 242 | 12½ miles northeast | 33, NW¼NW¼ | do. | — | — | — | — | — |
| 243 | do. | do. | do. | D. D. Bowman | Green Machinery Co. | 1937 | 100 | 16 |
| 244 | 13 miles northeast | 38, NW¼NE¼ | do. | H. W. Garrett | — McDonald | 1937 | 150 | — |
| 245 | do. | 38, SE¼NE¼ | do. | D. D. Bowman | — Sone | 1929 | 125 | — |
| 246 | 12 miles northeast | 34, NE¼NE¼ | do. | — | — | — | — | 5 |
| 247 | 11 miles northeast | 34, SE¼NW¼ | do. | C. T. Douglas | — Cook | Old | 150 | — |

| No. | Height of measuring point above ground (ft.) <u>a/</u> | Water Level | | Pump and power <u>b/</u> | Use of water <u>c/</u> | Remarks |
|-----|--|-----------------------------------|---------------------|--------------------------|------------------------|--|
| | | Depth below measuring point (ft.) | Date of measurement | | | |
| 225 | 0 | 52.6 | Apr. 24, 1936 | -- | D | |
| 226 | 0 | 40.4 | do. | None | N | Reported unused in 1936. |
| 227 | -- | -- | -- | T,G, -- | I | Reported yield, 800 gallons a minute. Irrigated 219 acres in 1937. Pump set at 80 |
| 228 | 1 | 45.8 | Aug. 6, 1937 | T,G, 85 | I | Reported yield, 900 gallons a minute. <u>feet.</u> Pump set at 70 feet. |
| 229 | 0.3 | 40.6 | Apr. 25, 1936 | C,W | D | |
| 230 | 0.3 | 33.3 | do. | C,W | D | |
| 231 | 1.7 | 45.3 | Apr. 24, 1936 | C,W | D | |
| 232 | 0 | 51.9 | do. | T,O, 120 | I | Reported not used in 1937. |
| 233 | -- | -- | -- | T,G, 85 | I | Reported yield, 900 gallons a minute. |
| 234 | -- | 44 | <u>d/</u> | T,O, 80 | I | Reported 40 feet drawdown pumping 1,640 gallons a minute. 100 feet 24-inch casing. |
| 235 | 0.5 | 45.6 | Apr. 23, 1936 | T,G, 85 | I | Reported 27 <u>Irrigated 315 acres in 1937.</u> feet drawdown after pumping 900 gallons a minute for 4 hours. 14-inch steel casing, 0 to 80 feet, 12-inch steel casing, 80 to 160 feet. Pump set at 84 feet. Irrigated |
| 236 | -- | 66 | <u>d/</u> | T,G, 72 | I | Reported yield, 1,100 <u>230 acres in 1937.</u> gallons a minute. Reported solid rock from 28 to 131 feet with gas pocket below it. |
| 237 | 0 | 38.2 | Apr. 23, 1936 | C,W | N | <u>Irrigated 152 acres in 1937.</u> |
| 238 | 7 | 56.3 | Sept. 3, 1937 | T,G, 60 | I | Reported yield, 1,400 gallons a minute. Irrigated 240 acres in 1937. |
| 239 | -- | 47 | <u>d/</u> | T,O, 25 | I | Hole cased from 38 to 172 feet. Reported yield, 750 gallons a minute. Water reported in red quicksand, 130 to 172 feet. Irri- |
| 240 | 0 | 47.4 | Sept. 14, 1937 | T,G, -- | I | Reported yield, <u>gated 160 acres in 1937.</u> 350 gallons a minute. Water sand reported, |
| 241 | 1 | 48.9 | do. | T,G, -- | I | Reported yield, 750 to 800 <u>85 to 102 feet.</u> gallons a minute. 16-inch steel casing, 44 to 94 feet; 10-inch steel casing, 94 to 124 |
| 242 | 0 | 44.2 | May 9, 1936 | C,W | D | <u>feet, Irrigated 130 acres in 1937.</u> |
| 243 | 3 | 51.7 | Sept. 14, 1937 | T,E, 20 | I | Estimated yield, 550 gallons a minute. Irrigated 132 acres in 1937. |
| 244 | -- | -- | -- | T,E, 15 | I | Reported yield, 600 to 700 gallons a minute. Irrigated 58 acres in 1937. Pump set at 70 |
| 245 | -- | -- | -- | T,E, 15 | I | Reported yield, 500 gallons a minute. <u>feet.</u> Irrigated 80 acres in 1937. |
| 246 | 0.5 | 45.7 | May 9, 1936 | -- | S | |
| 247 | -- | -- | -- | T,G, -- | I | Reported yield, 500 to 600 gallons a minute. Irrigated 78 acres in 1937. |

Records of wells in Hale County--Continued

| No. | Distance from Hale Center | Section | Survey, Block | Owner | Driller | Date completed | Depth of well (ft.) | Diameter of well (in.) |
|-----|----------------------------------|---------------------------------------|-----------------------------|------------------------------|-------------|----------------|---------------------|------------------------|
| 248 | 11 miles northeast | 27, NW $\frac{1}{4}$ NE $\frac{1}{4}$ | G.C. & S.F.R.R., blk. J K 2 | Dr. W. B. Woodson | -- | 1915 | 275 | -- |
| 249 | do. | 26, SE $\frac{1}{4}$ SE $\frac{1}{4}$ | do. | -- | -- | -- | -- | 4 $\frac{1}{2}$ |
| 250 | 12 miles northeast | 26, NE $\frac{1}{4}$ NE $\frac{1}{4}$ | do. | H. P. Wasson | Cook & Pate | 1935 | 179 | 15 |
| 251 | 11 $\frac{1}{2}$ miles northeast | 23, NW $\frac{1}{4}$ NE $\frac{1}{4}$ | do. | G. W. McEwen | -- Gorman | 1937 | 175 | 16 |
| 252 | 10 miles northeast | 22, NE $\frac{1}{4}$ SE $\frac{1}{4}$ | do. | J. P. Flake | -- | -- | -- | -- |
| 253 | 9 $\frac{1}{2}$ miles northeast | 22, SE $\frac{1}{4}$ SW $\frac{1}{4}$ | do. | Southland Life Ins. Co. | -- | -- | -- | -- |
| 254 | 10 miles north | 14, SE $\frac{1}{4}$ SW $\frac{1}{4}$ | do. | C. H. Day | -- Pate | 1931 | 142 | 14 |
| 255 | do. | 15, SE $\frac{1}{4}$ NW $\frac{1}{4}$ | do. | G. H. Slaton | -- | 1910 | 72 | -- |
| 256 | 9 miles north | 10, SE $\frac{1}{4}$ SW $\frac{1}{4}$ | do. | R. M. Malone | -- | Old | -- | -- |
| 257 | do. | 10, SW cor. NW $\frac{1}{4}$ | do. | Dallas Joint Stock Land Bank | -- | -- | -- | -- |
| 259 | do. | 3, NW $\frac{1}{4}$ SE $\frac{1}{4}$ | do. | C. S. Ebeling | -- | 1914 | 85 | -- |
| 260 | 9 $\frac{1}{2}$ miles north | 3, NW cor. NW $\frac{1}{4}$ | do. | R. M. Malone | J. C. Cook | 1934 | 30 | 6 |
| 261 | do. | do. | do. | do. | do. | -- | 22 | 6 |
| 262 | 15 miles northeast | 3, SE cor. SE $\frac{1}{4}$ | G.C. & S.F.R.R., blk. J K 3 | C. B. White | -- | Old | 64 | 6 |
| 263 | do. | 6, SW $\frac{1}{4}$ NW $\frac{1}{4}$ | do. | Federal Land Bank | -- | 1930 | 60 | 6 |
| 264 | 16 miles northeast | 8, NE $\frac{1}{4}$ NW $\frac{1}{4}$ | do. | do. | -- | Old | 73 | 6 |
| 265 | 12 miles north | 6, SE $\frac{1}{4}$ SW $\frac{1}{4}$ | Tyler Tap R.R., blk. C 3 | W. J. Watkins | Carl Mangum | 1937 | 186 | 16 |
| 266 | 14 miles north | 17, SW $\frac{1}{4}$ NW $\frac{1}{4}$ | do. | Julia C. Crawford | -- | 1925 | 51 | -- |
| 267 | 14 $\frac{1}{2}$ miles north | 18, SW $\frac{1}{4}$ SW $\frac{1}{4}$ | do. | -- Heffelfinger | -- | -- | 56 | 4 |
| 268 | 17 miles north | 4, SW $\frac{1}{4}$ SW $\frac{1}{4}$ | blk. R H | Mrs. J. W. Ray | -- | -- | 70 | -- |
| 269 | 10 $\frac{1}{2}$ miles northeast | 23, SE $\frac{1}{4}$ SW $\frac{1}{4}$ | G.C. & S.F.R.R., blk. J K 2 | Dallas Joint Stock Land Bank | -- Day | 1937 | 57 | -- |
| 270 | 17 $\frac{1}{2}$ miles northeast | cen. E side | W. W. Snell | T. L. & D. Co. | -- | -- | 70 | -- |

a/ Measuring point was usually top of casing, pump base, pipe clamp, or well curb. Point was above ground unless below ground indicated by minus (-) sign.

b/ T, turbine; Cf, centrifugal; C, cylinder; E, electric; G, gasoline; O, diesel or oil; Ng, natural gas; W, windmill; H, hand; number indicates horsepower.

| No. | Height of measuring point above ground (ft.) <u>a/</u> | Water Level | | Pump and power <u>b/</u> | Use of water <u>c/</u> | Remarks |
|-----|--|-----------------------------------|---------------------|--------------------------|------------------------|---|
| | | Depth below measuring point (ft.) | Date of measurement | | | |
| 248 | 0 | 48.8 | May 15, 1936 | T,O, — | I | Reported unused in 1936. |
| 249 | 0.3 | 49.4 | do. | — | D | |
| 250 | — | 54 | <u>d/</u> | T,G, 85 | I | Measured 36 feet drawdown pumping 1,005 gallons a minute. Irrigated 125 acres in 1937. Pump set at 77 feet. 80 feet steel casing. |
| 251 | 1.3 | 44.6 | Aug. 16, 1937 | T,Ng, 85 | I | Reported yield, 900 gallons a minute. 163 feet of steel casing. Irrigates 225 acres. |
| 252 | 1 | 39.6 | May 15, 1936 | C,W | D | Pump set at 63 feet. |
| 253 | 0 | 24 | Apr. 27, 1936 | C,W | D | |
| 254 | — | — | — | T,O, 38 | I | Reported yield, 900 to 1,000 gallons a minute. Irrigated 110 acres in 1937. See log. |
| 255 | 0 | 17.8 | Aug. 20, 1937 | T,G, 85 | I | Reported yield, 800 gallons a minute. Irrigated 135 acres in 1937. Reported as first successful irrigation well drilled in Hale County. |
| 256 | 0 | 40.8 | Apr. 27, 1936 | C,W | N | |
| 257 | 0 | 46.6 | Apr. 30, 1936 | C,W | N | |
| 259 | -2 | 17.9 | Aug. 25, 1937 | T,G, 42 | I | Reported yield, 1,500 gallons a minute. Irrigated 95 acres in 1937. Reported 25 feet drawdown pumping 1,500 gallons a minute for 8 hours. Pump set at 40 feet; 40 feet of suction pipe. |
| 260 | 1 | 14.3 | do. | C,W | S | |
| 261 | 0.2 | 14.3 | Aug. 19, 1937 | None | N | |
| 262 | 0.3 | 49.6 | July 17, 1937 | C,W | D,S | |
| 263 | 0.2 | 42.3 | do. | C,H | D,S | Galvanized casing. |
| 264 | 0.2 | 49.2 | do. | None | N | Located near shallow lake. |
| 265 | 2 | 47.2 | Oct. 27, 1937 | T,G, 85 | I | Reported yield, 1,000 gallons a minute. Did not use to irrigate in 1937. Pump set at 80 feet; 14 feet of suction pipe. |
| 266 | 0.5 | 38.2 | Oct. 28, 1937 | C,W | D,S | |
| 267 | 0 | 40.8 | do. | C,W | D,S | Irrigates small garden. |
| 268 | 0.4 | 61.1 | do. | C,W | D,S | |
| 269 | 0 | 23.7 | Oct. 29, 1937 | None | N | New well. |
| 270 | 0.1 | 56.6 | Nov. 9, 1937 | C,W | D,S | Never fails. |

c/ P, public; D, domestic; I, irrigation; S, stock; N, not used.
d/ Water level reported.

Records of wells in Hale County--Continued

| No. | Distance from Hale Center | Section | Survey, Block | Owner | Driller | Date completed | Depth of well (ft.) | Diameter of well (in.) |
|-----|----------------------------------|---------------------------------------|------------------------------|--------------------------|-------------------------|----------------|---------------------|------------------------|
| 271 | 18 miles northeast | cen. E side | D. R. McVickers | T. L. & D. Co. | — | — | 70 | 4 |
| 272 | 11 miles northeast | 54, SE $\frac{1}{4}$ $\frac{1}{4}$ | G.C. & S.F.R.R., blk. J K 2 | City of Plainview well 1 | L. A. Peoples | 1937 | 301 | 18 |
| 273 | do. | do. | do. | City of Plainview well 2 | do. | 1937 | 301 | 18 |
| 274 | do. | do. | do. | City of Plainview well 3 | do. | 1937 | 301 | 18 |
| 300 | 19 miles northeast | 54, SW $\frac{1}{4}$ | D. & S.E.R.R., blk. M 14. | T. L. & D. Co. | — | — | 150 | — |
| 301 | do. | 54, NW cor. SW $\frac{1}{4}$ | do. | do. | T.L. & D. Co. | 1915 | 157 | 24 |
| 302 | do. | 54, NE $\frac{1}{4}$ SW $\frac{1}{4}$ | do. | do. | do. | 1916 | 210 | 26 |
| 303 | do. | 54, NW cor. SE $\frac{1}{4}$ | do. | do. | do. | 1915 | 159 | 26 |
| 304 | 18 $\frac{1}{2}$ miles northeast | .3 mile E. of SW cor., sec. 54, | Homestead strip blk. M14 | do. | do. | 1915 | 162 | 24 |
| 305 | do. | .55 mile E. of SW cor., sec. 54, | do. | do. | do. | 1917 | 272 | 24 |
| 306 | 19 miles northeast | .8 mile E. of SW cor., sec. 54, | do. | do. | do. | 1915 | 160 | 24 |
| 307 | do. | .35 mile E. of SW cor., sec. 53, | do. | do. | do. | 1915 | 165 | 24 |
| 308 | do. | .55 mile E. of SW cor., sec. 53, | do. | do. | do. | 1916 | 251 | 24 |
| 309 | 18 $\frac{1}{2}$ miles northeast | NW cor. | J. R. O. | do. | do. | 1917 | 271 | 24 |
| 310 | 18 miles northeast | do. | S. J. Fry | A. A. Huntington | do. | 1917 | 273 | 24 |
| 311 | 17 $\frac{1}{2}$ miles northeast | SW cor. | J. E. O. | T. L. & D. Co. | do. | 1917 | 271 | 26 |
| 312 | do. | W side NW $\frac{1}{4}$ | J. M. Bogard | L. J. Halbert | — | 1937 | 210 | 16 |
| 313 | do. | 13, NE $\frac{1}{4}$ SE $\frac{1}{4}$ | G.C. & S.F.R.R., blk. J K 3. | Floyd Roadheimer | Green Machine & Dry Co. | 1936 | 205 | 16 |
| 314 | 17 miles northeast | 14, NE $\frac{1}{4}$ NE $\frac{1}{4}$ | do. | J. S. Leach | — | — | — | 6 |
| 315 | 16 miles northeast | 15, NW cor. NW $\frac{1}{4}$ | do. | Liberty School | — | — | — | 4 $\frac{1}{2}$ |
| 316 | 17 $\frac{1}{2}$ miles northeast | cen. W side | S. D. L. | T. L. & D. Co. | T.L. & D. Co. | Old | — | — |
| 317 | 18 $\frac{1}{2}$ miles northeast | NE cor. | J. F. Owens | do. | do. | 1916 | 232 | 24 |
| 318 | 20 $\frac{1}{2}$ miles northeast | NE $\frac{1}{4}$ SW $\frac{1}{4}$ | C. J. Maples | O. C. Bailey | O. C. Bailey | 1932 | 202 | 16 |
| 319 | 21 miles northeast | SW $\frac{1}{4}$ NW $\frac{1}{4}$ | H. A. Counts | Jim May | D. L. Handley | 1936 | 210 | 16 |
| 320 | 21 $\frac{1}{2}$ miles northeast | SW cor. | J. P. Toney | J. C. Williams | — | — | — | — |
| 321 | 21 miles northeast | do. | S. M. Nations | J. A. Richardson | — | — | — | — |

| No. | Height of measuring point above ground (ft.) a/ | Water Level | | Pump and power b/ | Use of water c/ | Remarks |
|-----|---|-----------------------------------|---------------------|-------------------|-----------------|--|
| | | Depth below measuring point (ft.) | Date of measurement | | | |
| 271 | 0 | 57.9 | Nov. 9, 1937 | C,W | D,S | Never fails. |
| 272 | — | 47 | d/ | T,E, — | P | Reported yield, 852 gallons a minute with 60 feet drawdown. See log. |
| 273 | — | 46 | d/ | T,E, — | P | Reported yield, 628 gallons a minute with 60 feet drawdown. |
| 274 | — | 44 | d/ | T,E, — | P | Reported yield, 1,086 gallons a minute with 63 feet drawdown. |
| 300 | — | — | — | C,W | D,S | Irrigates garden. Located in Swisher County, near Hale County line. |
| 301 | 1.8 | 70.8 | Sept. 22, 1937 | T,O, — | I | Unused; reported weak well. |
| 302 | — | 162 | 1916 d/ | T,O, — | I | Reported yield, 900 gallons a minute. Irrigated 146 acres in 1937. Pump set at 80 |
| 303 | — | — | — | T,O, 45 | — | Reported yield, 800 to 900 gallons a minute. Irrigated 112 acres in 1937. feet. |
| 304 | 1 | 67.4 | May 4, 1936 | T,O, 50 | I | Reported yield, 1,000 gallons a minute. Irrigated 41 acres in 1937. |
| 305 | 3.5 | 71.8 | Sept. 16, 1937 | T,G, 32 | I | Reported yield, 600 gallons a minute. Irrigated 69 acres in 1937. Pump set at 85 feet. |
| 306 | 1.5 | 68.3 | do. | T,O, — | I | Reported yield, 800 gallons a minute. Irrigated 70 acres in 1937. |
| 307 | 1 | 66.5 | do. | T,O, 60 | I | Reported yield, 900 gallons a minute. Irrigated 242 acres in 1937 from wells 307 and |
| 308 | 1.3 | 64.4 | do. | T,O, 45 | I | Reported yield, 900 gallons a minute. 308. See well 307. Pump set at 80 feet. |
| 309 | — | 48 | 1917 d/ | T,O, 50 | I | Reported yield, 800 to 900 gallons a minute. Irrigated 80 acres in 1937. Pump set at 85 |
| 310 | 3 | 56.3 | Sept. 16, 1937 | T,G, — | I | Reported yield, 900 gallons a minute. feet. Irrigated 171 acres in 1937. Pump set at 79 |
| 311 | 2 | 59.7 | June 3, 1937 | T,O, — | I | Estimated yield, 1,200 gallons a minute. Irrigated 143 acres in 1937. Pump set |
| 312 | 1.2 | 58.7 | do. | T,G, 85 | I | Reported yield, 800 gallons a minute. at 80 feet. Irrigated 211 acres in 1937. |
| 313 | 1.2 | 58.8 | do. | T,G, 85 | I | Reported yield, 1,000 gallons a minute with 28 feet drawdown. Irrigated 208 acres in |
| 314 | 0.5 | 42.6 | Apr. 23, 1936 | C,W | S | 1937. |
| 315 | — | — | — | C,W | P | |
| 316 | 3.2 | 50.5 | Sept. 16, 1937 | T,G, — | I | Irrigated 30 acres in 1937. |
| 317 | 1.5 | 52.2 | do. | T,O, 50 | I | Reported yield, 1,100 gallons a minute. Irrigated 135 acres in 1937. Pump set at 79 |
| 318 | — | — | — | T,G, 30 | I | Reported yield, 700 gallons a minute. feet. Irrigated 150 acres in 1937. Pump set at 90 feet; 30 feet of suction pipe. Reported 13 feet drawdown after pumping 700 gallons a |
| 319 | — | — | — | T,G, — | I | Irrigated 156 acres minute for 6 hours. in 1937. |
| 320 | 0.8 | 60.4 | May 5, 1936 | C,W | D,S | |
| 321 | 0 | 62.5 | do. | None | N | |

Records of wells in Hale County--Continued

| No. | Distance from Hale Center | Section | Survey, Block | Owner | Driller | Date completed | Depth of well (ft.) | Diameter of well (in.) |
|-----|---------------------------|-------------------|---------------|----------------------|---------------------|----------------|---------------------|------------------------|
| 322 | 20½ miles northeast | 131, NW cor. NE ¼ | blk. D 2 | E. V. Brasher | F. V. Brasher | 1933 | 220 | — |
| 323 | do. | 131, NW ¼ SE ¼ | do. | Paul Williams | Green Machinery Co. | — | 224 | 16 |
| 324 | do. | 131, NE cor. SW ¼ | do. | F. V. Brasher | — | — | — | — |
| 325 | do. | 132, NE ¼ NE ¼ | do. | Frank Zeleny | Frank Zeleny | 1937 | — | — |
| 326 | 19½ miles northeast | 132, NW cor. NW ¼ | do. | Z. P. King | — | — | — | — |
| 327 | 19 miles northeast | 132, SW ¼ SW ¼ | do. | Bill Tagel | Green Machinery Co. | 1936 | 200 | 15 |
| 328 | 17½ miles northeast | 113, NW cor. NW ¼ | blk. D 2 | H. S. Hilburn | — | — | — | — |
| 329 | 17 miles northeast | NE cor. | C. Sanders | Mrs. R. C. Ware | — | — | — | — |
| 330 | 16½ miles northeast | NW ¼ NE ¼ | J. M. Martin | Geo. White | — | 1913 | 220 | — |
| 331 | 18 miles northeast | 112, SE ¼ NW ¼ | blk. D 2 | Perry Wood | — | 1915 | 232 | — |
| 332 | 18½ miles northeast | 112, SE ¼ NE ¼ | do. | J. E. Rigler | — | 1911 | 210 | 16 |
| 333 | do. | 112, NE ¼ NE ¼ | do. | D. Hefflefinger | — | — | — | — |
| 334 | 19½ miles northeast | 116, SE ¼ NW ¼ | do. | B. F. Sammann | — | — | — | — |
| 335 | 20 miles northeast | 117, NW ¼ SW ¼ | do. | H. H. Sammann | Green & Cook | 1930 | 200 | 14 |
| 336 | 19½ miles northeast | 110, NW cor. NW ¼ | do. | Earl Miner | — | 1914 | 200 | 60 |
| 337 | 20 miles northeast | 110, NW ¼ NE ¼ | do. | Lee Stephens Est. | — | 1937 | — | — |
| 338 | do. | 110, NW ¼ SE ¼ | do. | Dr. J. H. Stewart | — | 1913 | 222 | — |
| 339 | 19½ miles northeast | 110, SE ¼ SW ¼ | do. | C. R. Boedeker | — | 1913 | 216 | — |
| 340 | 20 miles northeast | 98, NW ¼ NW ¼ | do. | Rex Riggs | — | 1937 | 147 | — |
| 341 | 19 miles northeast | 91, NW ¼ NW ¼ | do. | Jim Stewart, Jr. | Cook & Pate | 1937 | 210 | 20 |
| 342 | do. | 97, SE cor. SE ¼ | do. | Peoria Life Ins. Co. | — | — | — | — |
| 343 | 18½ miles northeast | 97, NW ¼ SW ¼ | do. | Walter S. Hoffman | J. C. Cook | 1931 | 210 | 14 |
| 344 | 18 miles northeast | 95, SE ¼ NE ¼ | do. | Jim Stewart, Jr. | Cook & Pate | 1937 | 220 | 20 |

| No. | Height of measuring point above ground (ft.) a/ | Water Level | | Pump and power b/ | Use of water c/ | |
|-----|---|-----------------------------------|---------------------|-------------------|-----------------|--|
| | | Depth below measuring point (ft.) | Date of measurement | | | |
| 322 | -- | -- | -- | T,G, -- | I | Reported yield, 800 gallons a minute. Irrigated 168 acres in 1937. 90 feet of perforated casing at top. |
| 323 | -- | -- | -- | T,G, -- | I | Reported yield, 1,000 gallons a minute. Irrigated 260 acres in 1937. Pump set at 96 feet; 27 feet of suction pipe. |
| 324 | 0.5 | 53.8 | May 5, 1936 | C,W | D,S | |
| 325 | -- | 65 | d/ | T,G, -- | I | Reported yield, 950 gallons a minute. Irrigated 123 acres in 1937. Pump set at 100 feet; 39 feet of suction pipe. |
| 326 | 0 | 55.1 | May 5, 1936 | C,W | D,S | |
| 327 | -- | -- | -- | T,G, 85 | I | Estimated yield, 900 gallons a minute. Irrigated 270 acres in 1937. Irrigating 132 acres for fall wheat. |
| 328 | 0.4 | 48.9 | May 8, 1936 | C,W | D,S | |
| 329 | 0 | 47.3 | Apr. 23, 1936 | C,W | D,S | Caved in, June 10, 1937. |
| 330 | 0 | 44.6 | do. | T,O, 45 | I | Reported yield, 800 gallons a minute. Irrigated 20 acres of sudan in 1937. Pump set at 80 feet; 80 feet of suction pipe. |
| 331 | -- | -- | -- | T,G, 85 | I | Reported yield, 700 gallons a minute. Irrigated 120 acres in 1937. Pump set at 90 feet; 25 feet of suction pipe. |
| 332 | -- | -- | -- | T,G, -- | I | Reported yield, 1,200 gallons a minute. Irrigated 237 acres in 1937. Pump set at 80 feet; 30 feet of suction pipe. |
| 333 | 0.3 | 47.7 | May 8, 1936 | C,W | D,S | |
| 334 | 1 | 46.4 | Apr. 30, 1936 | C,W | D,S | |
| 335 | -- | -- | -- | T,G, -- | I | Reported yield, 1,000 gallons a minute. Irrigated 330 acres in 1937. Pump set at 70 feet; 20 feet of suction pipe. |
| 336 | 0 | 43.4 | Apr. 23, 1936 | T,O, -- | I | Well not used since 1931. Filled in above water level in 1937. See log. |
| 337 | -- | -- | -- | T,G, 85 | I | New well. |
| 338 | 0.2 | 45.5 | Apr. 30, 1936 | T,G, -- | I | Irrigated 230 acres in 1937. Water level reported to be three feet lower than at time of drilling. |
| 339 | 0 | 41.1 | Apr. 23, 1936 | T,O, 45 | I | Well caved in above water level in 1937. See log. |
| 340 | 1.1 | 43.9 | June 1, 1937 | T,G, 85 | I | Estimated yield, 900 gallons a minute. Irrigated 25 acres cotton in 1937. |
| 341 | -- | -- | -- | T,G, 85 | I | Reported yield, 900 to 1,000 gallons a minute. Irrigated 40 acres in 1937. |
| 342 | 0.2 | 33.5 | Apr. 29, 1936 | C,W | D,S | |
| 343 | -- | -- | -- | T,G, 60 | I | Reported yield, 1,200 gallons a minute. Irrigated 168 acres in 1937. Pump set at 60 feet. 20 feet of suction pipe. |
| 344 | -- | -- | -- | T,G, 85 | I | Reported yield, 1,000 gallons a minute. Irrigated 285 acres in 1937. Pump set at 80 feet; 34 feet of suction pipe. |

Records of wells in Hale County--Continued

| No. | Distance from Hale Center | Section | Survey, Block | Owner | Driller | Date completed | Depth of well (ft.) | Diameter of well (in.) |
|-----|----------------------------------|------------------------------|---------------------------|------------------------------|---------------------|----------------|---------------------|------------------------|
| 345 | 18 miles northeast | 92, NW $\frac{1}{4}$ | blk. D 2 | Brad. Cox | J. C. Cook | 1935 | 138 | -- |
| 346 | do. | 70, NE cor. NE $\frac{1}{4}$ | do. | W. B. Seaman | -- | -- | -- | -- |
| 347 | do. | 75, NW $\frac{1}{4}$ | do. | -- Payne | Cook & Pate | 1937 | 221 | 15 $\frac{1}{2}$ |
| 348 | 18 $\frac{1}{2}$ miles northeast | 92, SW $\frac{1}{4}$ | do. | -- Brown | Baker Pump Co. | 1937 | 255 | 15 $\frac{1}{2}$ |
| 349 | do. | 76, SW cor. SW $\frac{1}{4}$ | do. | Dallas Joint Stock Land Bank | -- | Old | 228 | 4 $\frac{1}{2}$ |
| 350 | 18 miles northeast | 68, NW cor. NE $\frac{1}{4}$ | do. | -- Crews | Green Machinery Co. | 1935 | 206 | -- |
| 351 | 17 miles northeast | 70, SW $\frac{1}{4}$ | do. | D. B. Seaman | -- | -- | -- | -- |
| 352 | 16 $\frac{1}{2}$ miles northeast | 69, NW $\frac{1}{4}$ | do. | S. R. Jackson | -- | -- | -- | -- |
| 353 | 16 miles northeast | 1, SW $\frac{1}{4}$ | G.C. & S.F.R.R., blk. D 6 | P. W. Jackson | Green Machinery Co. | 1935 | 226 | -- |
| 354 | do. | 1, NW cor. SE $\frac{1}{4}$ | do. | Brad. Cox | J. C. Cook | 1935 | 203 | -- |
| 355 | 15 $\frac{1}{2}$ miles northeast | 1, SE $\frac{1}{4}$ | do. | C. N. Horne | -- | 1920 | 53 | -- |
| 356 | do. | 1, SW $\frac{1}{4}$ | do. | D. L. Alexander | -- | -- | -- | 4 $\frac{1}{2}$ |
| 357 | 14 $\frac{1}{2}$ miles northeast | 8, SE $\frac{1}{4}$ | do. | G. W. Lewellyn | -- | 1924 | 60 | 6 |
| 358 | 13 miles northeast | 16, SW $\frac{1}{4}$ | do. | Ft. Worth & Denver R.R. Co. | -- | 1912 | 230 | 22 |
| 359 | do. | 16, NE $\frac{1}{4}$ | do. | T. L. & D. Co. | T. L. & D. Co. | 1913 | 247 | 26 |
| 360 | do. | 16, NW $\frac{1}{4}$ | do. | do. | do. | 1913 | 312 | 26 |
| 361 | 13 $\frac{1}{2}$ miles northeast | NE $\frac{1}{2}$ | J. C. Burch | Lee Waggoner | Green Machinery Co. | 1937 | 217 | 16 |
| 362 | do. | do. | do. | J. H. Hadley | -- | 1930 | 144 | -- |
| 363 | do. | do. | do. | L. M. Faulkner | Green Machinery Co. | 1935 | 176 | -- |
| 364 | 15 $\frac{1}{2}$ miles northeast | SW $\frac{1}{4}$ | Thomas Beard | -- McLusky | do. | 1937 | 204 | 16 |
| 365 | 16 $\frac{1}{2}$ miles northeast | do. | J. W. Christie | W. P. McLusky | do. | 1936 | 202 | 16 |
| 366 | 15 $\frac{1}{2}$ miles northeast | do. | D. A. Meredith | D. J. Hartley | do. | 1936 | 200 | 16 |
| 367 | 14 $\frac{1}{2}$ miles northeast | 3, SW $\frac{1}{4}$ | blk. D 4 | B. L. Hoffman | -- | 1937 | 78 | -- |
| 368 | do. | do. | do. | do. | -- | -- | -- | -- |
| 369 | 15 miles northeast | 3, NW cor. NE $\frac{1}{4}$ | do. | R. P. Smythe | -- | 1914 | 140 | -- |
| 370 | 14 $\frac{1}{2}$ miles northeast | 5, SE $\frac{1}{4}$ | do. | -- | -- | -- | -- | 8 |

| No. | Height of measuring point above ground (ft.) a/ | Water Level | | Pump and power b/ | Use of water c/ | Remarks |
|-----|---|-----------------------------------|---------------------|-------------------|-----------------|---|
| | | Depth below measuring point (ft.) | Date of measurement | | | |
| 345 | -- | -- | -- | T,G, 85 | I | Reported yield, 900 gallons a minute. Irrigated 20 acres cotton in 1937. |
| 346 | 0.3 | 45.3 | Apr. 29, 1936 | C,W | D,S | |
| 347 | -- | -- | -- | T,G, 85 | I | Irrigated 110 acres wheat in 1937. |
| 348 | -- | -- | -- | T,G, 85 | I | New well. Irrigated 45 acres feed in 1937. |
| 349 | 3.7 | 40.4 | Apr. 28, 1936 | C,W | D,S | |
| 350 | -- | 43 | d/ | T,G, -- | I | Reported yield, 750 to 800 gallons a minute. Irrigated 160 acres in 1937. |
| 351 | -- | 53.4 | d/ | C,W | S | |
| 352 | 0.8 | 47.8 | Apr. 29, 1936 | C,W | D,S | |
| 353 | -- | -- | -- | T,G, -- | I | Irrigated 110 acres in 1937. See log. |
| 354 | -- | -- | -- | T,G, -- | I | Reported yield, 1,000 gallons a minute. Irrigated 90 acres in 1937. |
| 355 | 0.5 | 40.2 | June 5, 1937 | C,W | N | |
| 356 | 0.3 | 45.4 | May 14, 1936 | C,W | N | |
| 357 | 0.3 | 36.6 | June 5, 1937 | C,W | N | |
| 358 | 0.5 | 52.9 | do. | T,Ng, 32 | I | Reported yield, 900 gallons a minute. |
| 359 | 3.5 | 53.2 | Oct. 5, 1937 | T,Ng, -- | I | Irrigated 117 acres in 1937. |
| 360 | 1.5 | 51.3 | do. | T,O, 60 | I | Reported yield, 1,100 to 1,200 gallons a minute. Irrigated 152 acres in 1937. |
| 361 | -- | 48 | d/ | T,G, -- | I | Reported yield, 1,000 gallons a minute. Irrigated 200 acres wheat in 1937. Pump set |
| 362 | -- | 40 | d/ | None | N | at 96 feet. |
| 363 | -- | 50 | d/ | T,G, 85 | I | Reported yield, 900 gallons a minute. Irrigated 210 acres in 1937. |
| 364 | -- | -- | -- | T,G, -- | I | Reported yield, 800 gallons a minute. Irrigated 150 acres in 1937. |
| 365 | -- | -- | -- | T,G, 85 | I | Reported yield, 800 gallons a minute. Irrigated 297 acres in 1937. |
| 366 | -- | -- | -- | T,G, 85 | I | Reported yield, 800 gallons a minute. Irrigated 205 acres in 1937. Pump set at 84 |
| 367 | 0 | 46.2 | Sept. 20, 1937 | C,W | N | Double wheel windmill. feet. |
| 368 | -- | -- | -- | C,W | N | Do. |
| 369 | -- | -- | -- | T,G, -- | I | |
| 370 | 0.6 | 43.3 | Sept. 14, 1937 | C,G, -- | I | |

Records of wells in Hale County—Continued

| No. | Distance from Hale Center | Section | Survey, Block | Owner | Driller | Date completed | Depth of well (ft.) | Diameter of well (in.) |
|-----|---------------------------|-----------------|------------------------------|---------------------------|------------|----------------|---------------------|------------------------|
| 371 | 14½ miles northeast | 5, NW cor. SE ¼ | blk. D 4 | Earl Allen | — | 1934 | — | — |
| 372 | do. | 5, NE ¼ SW ¼ | do. | Melvin Bridges | — | — | 60 | — |
| 373 | do. | 5, SE ¼ NW ¼ | do. | J. T. Carlisle | — | — | — | — |
| 374 | do. | 6, NW cor. NE ¼ | do. | E. Graham | — | 1915 | 175 | — |
| 375 | 13½ miles northeast | 6, SW cor. NW ¼ | do. | — | — | — | — | — |
| 376 | 14 miles northeast | 1, NE cor. NE ¼ | do. | — | — | — | — | — |
| 377 | 13½ miles northeast | 1, SE ¼ NE ¼ | do. | Gene Aylesworth | J. C. Cook | — | 90 | — |
| 378 | 14 miles northeast | 2, NW ¼ NW ¼ | do. | J. M. Johnson | do. | 1930 | 160 | — |
| 379 | do. | 2, NW ¼ NE ¼ | do. | — Day | — | — | — | — |
| 380 | 15½ miles northeast | 6, SW ¼ SW ¼ | do. | — McDonald | — | — | — | — |
| 381 | 13 miles northeast | cen. N side | Horace Griffin | Fred Nicklass | — McDonald | 1926 | 92 | — |
| 382 | 15 miles northeast | 8, SE ¼ SE ¼ | G.C. & S.F.R.R., blk. D 6. | G. W. Lewellyn | — | — | 52 | — |
| 383 | 16 miles northeast | 1, SE ¼ NE ¼ | do. | Mrs. Frances Jackson | — | Old | 53 | — |
| 384 | 17 miles northeast | NE ¼ NE ¼ | R. G. O. | Texas Land & Mortgage Co. | — | Old | 46 | — |
| 385 | 14 miles northeast | cen. S side | H. M. Burch | L. M. Faulkner | — | — | 65 | — |
| 386 | 14½ miles northeast | 3, SW ¼ SE ¼ | blk. D 4 | — Hoffman | — | — | 64 | 8 |
| 387 | 15 miles northeast | 4, SW ¼ SE ¼ | do. | W. A. Lowe | — | 1933 | 49 | 4 |
| 388 | 16 miles northeast | SE ¼ | A. L. Conkling | H. C. Hoyle | Jim Cook | 1912 | 50 | 8 |
| 389 | 17½ miles northeast | 68, NW ¼ NW ¼ | blk. D 2 | — Rigler | — | 1937 | 64 | — |
| 390 | 17 miles northeast | 70, SW ¼ SW ¼ | do. | Federal Life Ins. Co. | — | — | — | — |
| 391 | 19½ miles northeast | 131, SW ¼ SW ¼ | do. | Prairie View School | — | — | — | — |
| 400 | 10 miles northeast | 33, SW ¼ SE ¼ | G.C. & S.F.R.R., blk. J K 2. | J. W. Murchison | J. C. Cook | 1935 | 124 | — |
| 401 | 10½ miles northeast | 40, SW ¼ SW ¼ | do. | J. K. Crews | — | — | — | — |
| 402 | 11 miles northeast | 40, SW ¼ NE ¼ | do. | N. R. Johnson | J. C. Cook | 1922 | 39 | — |
| 403 | do. | 40, SE ¼ SE ¼ | do. | — | — | — | 28 | 6 |
| 404 | 9 miles northeast | 31, NW ¼ NW ¼ | do. | G. H. Stovall | — | — | — | — |

| No. | Height of measuring point above ground (ft.) a/ | Water Level | | Pump and power b/ | Use of water c/ | Remarks |
|-----|---|-----------------------------------|---------------------|-------------------|-----------------|---|
| | | Depth below measuring point (ft.) | Date of measurement | | | |
| 371 | 1 | 45.6 | Sept. 20, 1937 | T, G, — | I | Reported yield, 700 gallons a minute. Irrigated 85 acres in 1937. |
| 372 | — | — | — | Cf, G, 25 | I | Reported yield, 250 gallons a minute. Irrigated 25 acres barley in 1937. |
| 373 | — | 45.3 | d/ | C, W | D, S | |
| 374 | — | — | — | Cf, G, — | N | |
| 375 | 0 | 46 | May 5, 1936 | C, W | D, S | |
| 376 | 0.2 | 40.6 | May 8, 1936 | C, W | D, S | |
| 377 | 1.8 | 48.5 | Sept. 17, 1937 | T, G, 20 | I | Irrigated 27 acres garden truck in 1937. Pump set at 50 feet; 8-inch pump with 6- |
| 378 | — | — | — | T, G, 35 | I | Reported yield, 400 to 500 gallons a minute. Irrigated 30 acres feed in 1937. 8-inch pump set at 40 feet. |
| 379 | — | — | — | C, G, 25 | N | |
| 380 | — | — | — | T, G, 40 | I | Irrigated 52 acres in 1937. |
| 381 | 0.3 | 33.4 | Oct. 4, 1937 | T, G, 40 | I | Reported yield, 400 gallons a minute. Irrigated 15 acres garden truck in 1937. |
| 382 | 0 | 32.4 | Oct. 20, 1937 | C, W | D, S | Located 200 feet east of lake on golf course. |
| 383 | 0.3 | 45.4 | Oct. 21, 1937 | C, W | D, S | Reported never fails. Irrigates small garden. |
| 384 | 0.6 | 41.9 | Oct. 20, 1937 | C, W | D, S | Irrigates small garden. |
| 385 | 0.3 | 47.5 | Oct. 22, 1937 | C, W | D, S | Reported strong supply. Located 0.2 mile west of lake. |
| 386 | 0.3 | 45.8 | do. | C, W | D, S | Reported never fails. Located 0.2 mile north of lake. |
| 387 | 0.3 | 46.6 | do. | C, W | D, S | Reported never fails. Irrigates small garden. |
| 388 | 0.4 | 44.2 | Oct. 26, 1937 | C, W | D, S | Reported never fails. Well 700 yards west of lake. |
| 389 | 0.5 | 43.5 | Nov. 9, 1937 | C, W | N | New well. |
| 390 | — | — | — | C, W | D, S | Irrigates small garden. Filled in at top. |
| 391 | — | — | — | C, W | P | Reported strong supply. |
| 400 | — | — | — | T, G, 85 | I | Reported yield, 900 gallons a minute. Irrigated 101 acres in 1937. |
| 401 | 1.7 | 34.3 | Sept. 20, 1937 | T, G, 35 | I | Reported yield, 800 gallons a minute. Irrigated 119 acres in 1937. |
| 402 | 0.5 | 18.5 | Aug. 20, 1937 | C, G, — | I | Reported yield, 40 gallons a minute. Irrigated small garden in 1937. |
| 403 | 0.8 | 17.8 | July 17, 1937 | None | N | Located 300 feet north of creek. |
| 404 | — | — | — | T, G, — | I | Irrigated 10 acres potatoes in 1937. Water reported from coarse sand and gravel. |

Records of wells in Hale County--Continued

| No. | Distance from Hale Center | Section | Survey, Block | Owner | Driller | Date completed | Depth of well (ft.) | Diameter of well (in.) |
|-----|----------------------------------|---------------------------------------|-----------------------------|----------------------|---------------------|----------------|---------------------|------------------------|
| 405 | 10 miles northeast | 42, SW $\frac{1}{2}$ NE $\frac{1}{4}$ | G.C. & S.F.R.R., blk. J K 2 | Oscar Hill | -- | -- | 38 | 6 |
| 406 | 10 $\frac{1}{2}$ miles northeast | 41, SE $\frac{1}{2}$ SE $\frac{1}{4}$ | do. | -- | -- | -- | -- | -- |
| 407 | 11 $\frac{1}{2}$ miles northeast | SW $\frac{1}{2}$ | Poliet Smith | -- | -- | -- | -- | -- |
| 408 | 12 miles northeast | NW $\frac{1}{2}$ | do. | -- | -- | -- | 35 ^a | -- |
| 409 | do | cen. N side | do. | Mary Alexander | -- | Old | 50 | 6 |
| 410 | do. | NW cor. NW $\frac{1}{4}$ | A. Vance | Mrs. Lizzie Clements | -- | 1932 | 64 | 12 |
| 411 | 12 $\frac{1}{2}$ miles northeast | E $\frac{1}{2}$ | L. A. White | Mrs. -- Patton | Green Machinery Co. | 1936 | 100 | -- |
| 412 | 12 miles northeast | 14, NW $\frac{1}{2}$ NW $\frac{1}{4}$ | blk. D 6 | T. L. & D. Co. | Layne & Bowler | 1913 | 280 | -- |
| 413 | do. | 14, NW $\frac{1}{2}$ SW $\frac{1}{4}$ | do. | do. | T.L. & D. Co. | 1913 | 276 | 26 |
| 414 | 12 $\frac{1}{2}$ miles northeast | 14, NE $\frac{1}{2}$ SE $\frac{1}{4}$ | do. | do. | J. W. Thomas | 1913 | 239 | 26 |
| 415 | 13 miles northeast | 10, NW cor. SW $\frac{1}{4}$ | do. | do. | T.L. & D. Co. | 1913 | 244 | 26 |
| 416 | 14 miles northeast | 10, NW $\frac{1}{2}$ NW $\frac{1}{4}$ | do. | Eula Lane | -- Merrill | -- | 60 | 4 |
| 418 | 14 $\frac{1}{2}$ miles northeast | 3, NW $\frac{1}{2}$ NW $\frac{1}{4}$ | do. | R. B. Howell, Jr. | -- | -- | 38 | 6 |
| 419 | 15 miles northeast | 3, NW cor. NE $\frac{1}{4}$ | do. | J. A. Asher | -- | -- | 194 | -- |
| 420 | 14 $\frac{1}{2}$ miles northeast | 3, NE $\frac{1}{2}$ SW $\frac{1}{4}$ | do. | J. B. Howell | George Green | 1913 | 180 | 24 |
| 421 | 16 miles northeast | 23, NE $\frac{1}{2}$ SE $\frac{1}{4}$ | D. & P. R. R., blk. D 5 | A. E. Harris Est. | -- | -- | -- | 4 $\frac{1}{2}$ |
| 422 | do. | 20, SW $\frac{1}{2}$ SW $\frac{1}{4}$ | do. | Mrs. J. B. Long | J. C. Cook | 1936 | 69 | 6 |
| 423 | 15 miles northeast | 22, NW $\frac{1}{2}$ NW $\frac{1}{4}$ | do. | J. C. Eiring | -- | 1913 | -- | -- |
| 424 | 17 miles northeast | 19, NW $\frac{1}{2}$ NW $\frac{1}{4}$ | do. | W. A. Martin | Cook & Pate | 1937 | 202 | 15 $\frac{1}{2}$ |
| 425 | 18 miles northeast | 18, NE $\frac{1}{2}$ SW $\frac{1}{4}$ | do. | Brad. Cox | -- Patton | 1936 | 189 | -- |
| 426 | 17 $\frac{1}{2}$ miles northeast | 18, SW $\frac{1}{2}$ SW $\frac{1}{4}$ | do. | do. | J. C. Cook | 1935 | 201 | -- |
| 427 | do. | 17, NW cor. NW $\frac{1}{4}$ | do. | C. M. Smith | -- | Old | -- | -- |
| 428 | 17 miles east | 17, SW $\frac{1}{2}$ SW $\frac{1}{4}$ | do. | do. | -- | -- | 100 | 24 |

a/ Measuring point was usually top of casing, pump base, pipe clamp, or well curb. Point was above ground unless below ground indicated by minus (-) sign.

b/ T, turbine; Cf, centrifugal; C, cylinder; E, electric; G, gasoline; O, diesel or oil; Ng, natural gas; W, windmill; H, hand; number indicates horsepower.

| No. | Height of measuring point above ground (ft.) a/ | Water Level | | Pump and power | Use of water | Remarks |
|-----|---|-----------------------------------|---------------------|----------------|--------------|--|
| | | Depth below measuring point (ft.) | Date of measurement | | | |
| 405 | 0 | 32.9 | July 22, 1937 | C,W | N | Small sink 300 feet east. Lake 800 feet west. |
| 406 | 0.4 | 40.2 | Sept. 20, 1937 | Cf,G, — | D,S | |
| 407 | 0.5 | 35.4 | June 18, 1937 | C,W | N | |
| 408 | 0.4 | 22.6 | Aug. 20, 1937 | C,G, 3½ | D,S | Irrigates small garden. Near dry creek. |
| 409 | 0 | 29.2 | June 5, 1937 | None | N | Near dry creek. |
| 410 | 0.6 | 48.1 | do. | C,W | D,S,I | Irrigates small garden. |
| 411 | — | — | — | T,G, — | I | Reported depth, 100 feet. Reported yield, 650 gallons a minute. Irrigated 50 acres |
| 412 | — | — | — | T,—, 60 | I | Irrigated 175 acres in 1937. in 1937. |
| 413 | — | — | — | T,—, 40 | I | Pump set at 70 feet. |
| 414 | 0.5 | 46 | May 5, 1936 | T,O, 60 | I | Measured yield, 1,360 gallons a minute, August 20, 1937. Irrigated 250 acres in |
| 415 | — | — | — | T,—, 35 | I | Measured yield, 642 gallons a minute, August 18, 1937. Irrigated 300 acres in 1937. |
| 416 | — | 45 | d/ | C,W | D,S | in 1937. |
| 418 | 1.3 | 27.8 | Aug. 20, 1937 | C,W | D,S | |
| 419 | — | 35.5 | d/ | T,G, — | I | Measured yield, 559 gallons a minute, with drawdown of 22 feet, March, 1936. Reported |
| 420 | 1.5 | 25.9 | Apr. 22, 1936 | None | N | Dug depth, 194 feet. Pump set at 80 feet. 30 feet, drilled to bottom. Almost filled |
| 421 | 0.3 | 32.9 | May 25, 1937 | C,W | N | by caving. |
| 422 | 0.2 | 38.2 | Oct. 1, 1937 | C,W | D,S | Irrigates garden. |
| 423 | — | — | — | None | N | |
| 424 | — | — | — | T,G, — | I | 100 feet of 15½-inch and 65 feet of 11½-inch steel perforated casing from water level to bottom of well. Irrigated 216 acres in 1937. 2-stage pump set at 80 feet; 60 feet of suc- |
| 425 | — | — | — | T,G, — | I | Irrigated 100 acres in 1937. tion pipe. |
| 426 | — | — | — | T,G, — | I | Irrigated 230 acres in 1937. See log. |
| 427 | 2 | 49 | Apr. 22, 1936 | T,G, — | I | Irrigated 40 acres in 1937. |
| 428 | 2.5 | 52.5 | May 1, 1936 | C,W | I | Irrigated 5 acres in 1937. Windmill, 24 feet diameter, 8-inch cylinder. Estimated yield, 125 gallons a minute. |

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

d/ Water level reported.

Records of wells in Hale County--Continued

| No. | Distance from Hale Center | Section | Survey, Block | Owner | Driller | Date completed | Depth of well (ft.) | Diameter of well (in.) |
|-----|----------------------------------|---------------------------------------|--------------------------|-------------------------|---------------------|----------------|---------------------|------------------------|
| 429 | 17 miles east | 17, NE $\frac{1}{2}$ SW $\frac{1}{4}$ | D. & P. R. R., blk. D 5 | C. M. Smith | --- | Old | 200 ⁺ | 28 |
| 430 | 10 $\frac{1}{2}$ miles east | 39, NW $\frac{1}{4}$ NW $\frac{1}{4}$ | do. | J. B. Long | --- | --- | --- | --- |
| 431 | do. | 39, SW $\frac{1}{2}$ SW $\frac{1}{4}$ | do. | Emmett Thornton | J. C. Cook | 1934 | 194 | 14 |
| 432 | 16 miles east | 37, SE $\frac{1}{2}$ NE $\frac{1}{4}$ | G.C.& S.F.R.R., blk. D 6 | F. L. & D. Co. | --- | Old | 288 | 26 |
| 433 | do. | do. | do. | do. | --- | Old | 292 | 26 |
| 434 | 14 $\frac{1}{2}$ miles east | 33, SE $\frac{1}{2}$ NE $\frac{1}{4}$ | do. | do. | --- | 1917 | 192 | 26 |
| 435 | 14 miles east | 33, SW $\frac{1}{2}$ NE $\frac{1}{4}$ | do. | do. | --- | 1917 | 292 | 26 |
| 436 | 15 $\frac{1}{2}$ miles east | 33, NW $\frac{1}{2}$ SW $\frac{1}{4}$ | do. | do. | --- | 1916 | 293 | 26 |
| 437 | do. | 33, SW $\frac{1}{2}$ NW $\frac{1}{4}$ | do. | do. | --- | 1916 | 292 | 26 |
| 438 | 14 miles northeast | 5, NE $\frac{1}{2}$ NE $\frac{1}{4}$ | do. | Clarence Stalcup | --- | --- | --- | 4 $\frac{1}{2}$ |
| 439 | 13 $\frac{1}{2}$ miles northeast | 5, NW $\frac{1}{2}$ NE $\frac{1}{4}$ | do. | do. | D. L. Hanley | 1935 | 200 | 16 |
| 440 | 13 miles east | 32, SW $\frac{1}{2}$ NW $\frac{1}{4}$ | do. | Plainview-Lockney Farms | --- | Old | --- | --- |
| 441 | 12 $\frac{1}{2}$ miles east | 31, NW $\frac{1}{2}$ NW $\frac{1}{4}$ | do. | W. S. Noel | Baker Pump Co. | 1937 | 183 | 16 |
| 442 | 11 miles northeast | 28, SE $\frac{1}{2}$ SW $\frac{1}{4}$ | do. | E. Roper | --- | --- | --- | 26 |
| 443 | do. | 28, NW cor. NW $\frac{1}{4}$ | do. | do. | Green Machinery Co. | 1937 | 200 | 16 |
| 444 | 11 $\frac{1}{2}$ miles northeast | 15, SE $\frac{1}{2}$ SW $\frac{1}{4}$ | do. | do. | J. C. Cook | 1934 | 195 | 16 |
| 445 | 10 miles northeast | 31, SW $\frac{1}{2}$ SW $\frac{1}{4}$ | do. | A. VanHoweling | --- | Old | --- | 26 |
| 446 | 9 miles northeast | 22, SW $\frac{1}{2}$ NW $\frac{1}{4}$ | do. | T. Hall Brown | --- Tiddle | 1918 | 205 | 14 |
| 447 | 7 $\frac{1}{2}$ miles northeast | 1, SW $\frac{1}{2}$ SW $\frac{1}{4}$ | E.L.& R.R.R.R., blk. D 7 | Bob Otto | --- | --- | --- | 6 |
| 448 | do. | 1, SE $\frac{1}{2}$ SW $\frac{1}{4}$ | do. | F. A. Wilson | --- Robinson | 1935 | 175 | 16 |
| 449 | 8 miles east | 10, NW $\frac{1}{2}$ NE $\frac{1}{4}$ | do. | W. S. Messick | --- | --- | --- | 72 |
| 450 | 9 miles east | 8, SW $\frac{1}{2}$ NW $\frac{1}{4}$ | do. | A. G. Hinn | --- | --- | --- | --- |
| 451 | 11 $\frac{1}{2}$ miles east | 6, NE $\frac{1}{2}$ NW $\frac{1}{4}$ | do. | R. W. Burchardt | --- | --- | --- | --- |

| No. | Height of measuring point above ground (ft.) a/ | Water Level | | Pump and power b/ | Use of water c/ | |
|-----|---|-----------------------------------|---------------------|-------------------|-----------------|---|
| | | Depth below measuring point (ft.) | Date of measurement | | | |
| 429 | 0 | 49.2 | Oct. 26, 1937 | T, O, 60 | I | Irrigated 466 acres in 1937. Reported yield, 1,100 gallons a minute. 24-inch pump set at 96 feet; 10-inch column pipe. 200 feet of 28- and 12-inch steel casing from surface. |
| 430 | 0.5 | 46.7 | May 4, 1936 | None | N | Formerly domestic well. |
| 431 | 1 | 57.8 | Sept. 10, 1937 | T, G, 50 | I | Irrigated 220 acres in 1937. 3-stage 12-inch pump set at 80 feet; 30 feet of suction pipe. Perforated at top, below water level. 96 feet of 14-inch and 10-inch steel casing. |
| 432 | -- | -- | -- | T, O, -- | I | |
| 433 | -- | 45 | d/ | None | N | |
| 434 | 0.3 | 43.8 | Oct. 25, 1937 | None | N | |
| 435 | 1 | 49.6 | do. | None | N | Used a little in 1936; not used in 1937. |
| 436 | 0.7 | 53.4 | Mar. 17, 1937 | T, O, -- | I | Reported 19 feet drawdown after pumping 920 gallons a minute for several hours. Irrig- |
| 437 | -- | -- | -- | T, O, -- | I | Reported yield, gated 195 acres in 1937. 900 gallons a minute. Irrigated 222 acres |
| 438 | 1 | 40.6 | May 1, 1936 | C, W | D, S | in 1937. |
| 439 | -- | -- | -- | T, G, 85 | I | Reported yield, 800 gallons a minute. Irrigated 278 acres in 1937. 2-stage pump set |
| 440 | 6.8 | 53.5 | May 4, 1936 | T, G, 170 | I | Reported yield, 1,800 gallons at 70 feet. a minute with 14-inch pump; 12-inch column pipe; 2-V 8 engines. Irrigated 530 acres in |
| 441 | -- | 43 | d/ | T, G, 85 | I | Reported yield, 1,100 gallons a 1937. minute. 12-inch pump set at 80 feet; 9-inch column pipe. Irrigated 224 acres in 1937. |
| 442 | 0.2 | 39 | May 7, 1936 | T, O, 60 | I | Reported yield, 1,500 gallons a minute. Irrigated 230 acres in 1937; 60 acres alfalfa. |
| 443 | -- | -- | -- | T, G, 85 | I | Reported yield, 1,000 gallons a minute. Irrigated 60 acres feed in 1937. |
| 444 | -- | -- | -- | T, G, -- | I | Reported yield, 500 gallons a minute. Irrigated 217 acres in 1937. Reported water |
| 445 | 2 | 48.1 | Apr. 29, 1937 | T, O, -- | I | lifted 72 feet. |
| 446 | -- | 61 | d/ | T, O, 60 | I | Measured yield, 1,157 gallons a minute; in 1936, by Resettlement Administration. Irrig- |
| 447 | 1.5 | 61.5 | June 8, 1937 | C, W | N | gated 482 acres in 1937. |
| 448 | -- | 57.5 | d/ | T, G, 85 | I | Measured yield, 651 gallons a minute; 1936, by Resettlement Administration. Irrigated 120 acres in 1937. Pump set at 80 feet. |
| 449 | 0 | 58.3 | June 8, 1937 | None | N | |
| 450 | 0.4 | 33.4 | Apr. 26, 1937 | C, W | N | |
| 451 | 0.3 | 39.1 | May 5, 1936 | C, W | D, S | |

Records of wells in Hale County--Continued

| No. | Distance from Hale Center | Section | Survey, Block | Owner | Driller | Date completed | Depth of well (ft.) | Diameter of well (in.) |
|-----|-----------------------------|---------------------------------------|---------------------------|------------------|-----------------|----------------|---------------------|------------------------|
| 452 | 15 miles east | 28, SW $\frac{1}{4}$ SW $\frac{1}{4}$ | blk. N | E. M. Wingate | — | Old | 37 | 6 |
| 453 | 16 $\frac{1}{2}$ miles east | 21, NE $\frac{1}{4}$ NW $\frac{1}{4}$ | do. | T. L. & D. Co. | — | 1914 | 278 | 24 |
| 454 | do. | 21, NW cor. NE $\frac{1}{4}$ | do. | B. F. Smith | — | 1914 | 276 | 24 |
| 455 | do. | 21, NW cor. SE $\frac{1}{4}$ | do. | T. L. & D. Co. | — | 1914 | 258 | 24 |
| 456 | do. | 21, NE $\frac{1}{4}$ SW $\frac{1}{4}$ | do. | do. | — | — | — | 26 |
| 457 | 16 miles east | 16, NW $\frac{1}{4}$ NW $\frac{1}{4}$ | do. | do. | — | 1915 | 271 | 24 |
| 458 | 16 $\frac{1}{2}$ miles east | 16, NW cor. NE $\frac{1}{4}$ | do. | do. | — | 1915 | 274 | 24 |
| 459 | do. | 16, NE $\frac{1}{4}$ SE $\frac{1}{4}$ | do. | do. | — | 1915 | 277 | 24 |
| 460 | do. | 16, NW $\frac{1}{4}$ SE $\frac{1}{4}$ | do. | do. | — | — | — | 6 |
| 461 | do. | do. | do. | do. | — | 1915 | 266 | 24 |
| 462 | 16 miles east | 16, NE $\frac{1}{4}$ SW $\frac{1}{4}$ | do. | R. E. Keniston | — | 1915 | 266 | 24 |
| 463 | do. | 16, SW $\frac{1}{4}$ SW $\frac{1}{4}$ | do. | do. | — | 1915 | 271 | 26 |
| 464 | 14 $\frac{1}{2}$ miles east | 18, NW $\frac{1}{4}$ SE $\frac{1}{4}$ | do. | Clayton Terrell | C. Terrell | 1936 | 152 | 16 |
| 465 | 13 $\frac{1}{2}$ miles east | 26, SE $\frac{1}{4}$ NW $\frac{1}{4}$ | do. | J. Wells Kincaid | G. W. Robertson | 1934 | 116 | 16 |
| 466 | 15 miles east | 26, NW $\frac{1}{4}$ SE $\frac{1}{4}$ | do. | do. | do. | 1934 | 150 | — |
| 467 | 15 $\frac{1}{2}$ miles east | 25, NW $\frac{1}{4}$ NE $\frac{1}{4}$ | do. | M. E. Courtney | M. E. Courtney | 1937 | 135 | 26 |
| 468 | 13 miles east | cen. W side | W. H. Portwood | T. Thornton | — | — | — | — |
| 469 | 11 $\frac{1}{2}$ miles east | 25, SE $\frac{1}{4}$ SE $\frac{1}{4}$ | E.L. & R.R.R.R., blk. D 7 | Frank Beard | — | — | — | — |
| 470 | 11 miles east | 25, NW $\frac{1}{4}$ NW $\frac{1}{4}$ | do. | M. H. Neer | — | — | — | 22 |
| 471 | 11 $\frac{1}{2}$ miles east | 16, NE cor. NE $\frac{1}{4}$ | do. | F. M. Daugherty | — | — | — | — |
| 472 | 10 miles east | 17, SW $\frac{1}{4}$ SW $\frac{1}{4}$ | do. | G. A. Shook | — | — | — | — |
| 473 | 9 miles east | 23, SW $\frac{1}{4}$ SW $\frac{1}{4}$ | do. | W. M. Massey | — | Old | 55 | 5 |
| 474 | 8 $\frac{1}{2}$ miles east | 22, NW $\frac{1}{4}$ NE $\frac{1}{4}$ | do. | Jagelky Bros. | Jagelky Bros. | 1937 | 116 | — |

| No. | Height of measuring point above ground (ft.) a/ | Water Level | | Pump and power b/ | Use of water c/ | Remarks |
|-----|---|-----------------------------------|---------------------|-------------------|-----------------|--|
| | | Depth below measuring point (ft.) | Date of measurement | | | |
| 452 | 0.4 | 36.2 | Aug. 25, 1937 | None | N | |
| 453 | 1 | 51.2 | Apr. 27, 1936 | T, O, 60 | I | Measured yield, 1,032 gallons a minute. Irrigated 156 acres in 1937. |
| 454 | 1 | 53.7 | July 23, 1937 | T, G, 40 | I | Reported yield, 600 gallons a minute. Irrigated 160 acres in 1937. Pump set at 70 feet. |
| 455 | — | — | — | None | N | |
| 456 | — | — | — | T, O, | I | Irrigated 195 acres in 1937. |
| 457 | — | — | — | T, O, | I | Irrigated 56 acres in 1937. |
| 458 | — | — | — | T, O, | I | Irrigated 122 acres in 1937. |
| 459 | 1.1 | 40.4 | May 15, 1936 | T, O, | I | |
| 460 | 1.5 | 46.9 | do. | None | N | 150 feet east of old irrigation well. |
| 461 | — | — | — | None | N | |
| 462 | 0.4 | 42.8 | May 15, 1936 | None | N | Abandoned irrigation well. |
| 463 | 2.0 | 34.6 | Sept. 10, 1937 | T, O, 35 | I | Irrigated 34 acres in 1937. |
| 464 | 2.6 | 53.9 | May 4, 1936 | T, G, 85 | I | Reported yield, 1,200 to 1,400 gallons a minute. Irrigated 275 acres in 1937. 16-inch and 13-inch steel casing, top to bottom. Perforated below water level. 1-stage pump set at 72 feet; 26 feet of suction pipe. |
| 465 | — | — | — | None | N | Drilled to drain lake, now filled with mud. |
| 466 | — | — | — | T, G, | I | Reported yield, 800 gallons a minute. Irrigated 300 acres in 1937. No casing. 12-inch, 2-stage pump set at 60 feet; 20 feet |
| 467 | 0.5 | 34.6 | Sept. 10, 1937 | T, O, 75 | I | Reported 65 feet draw- of suction pipe. down after 6 hours pumping 1,500 gallons a minute. Irrigated 150 acres in 1937. No casing. Reported struck water at 34 feet. |
| 468 | 0.5 | 35.9 | June 17, 1936 | — | N | Pump set at 90 feet. |
| 469 | 0.3 | 31.2 | May 5, 1936 | C, W | D | |
| 470 | 0.4 | 55.6 | June 18, 1936 | None | N | Reported weak supply. |
| 471 | 0.3 | 33.6 | June 16, 1936 | — | D, S | |
| 472 | 0.3 | 31.8 | May 6, 1936 | C, W | N | Abandoned stock well. |
| 473 | 0.4 | 43.3 | July 19, 1937 | C, W | N | |
| 474 | — | 44 | March 1937 d/ | None | N | Insufficient water for irrigation. |

Records of wells in Hale County--Continued

| No. | Distance from Hale Center | Section | Survey, Block | Owner | Driller | Date completed | Depth of well (ft.) | Diameter of well (in.) |
|-----|----------------------------------|---------------------------------------|----------------------------|-------------------------|------------|----------------|---------------------|------------------------|
| 475 | 8 miles east | 22, NW $\frac{1}{4}$ NW $\frac{1}{4}$ | E.L.& R.R.R.R., blk. D 7 | Jagelky Bros. | J. C. Cook | 1931 | 150 | -- |
| 476 | do. | do. | do. | do. | do. | 1931 | 124 | -- |
| 477 | do. | do. | do. | do. | do. | 1931 | 176 | 6 |
| 478 | 7 miles east | 21, SE $\frac{1}{4}$ SW $\frac{1}{4}$ | do. | J. M. Buchanan | -- | -- | -- | -- |
| 480 | 13 $\frac{1}{2}$ miles northeast | 10, SW $\frac{1}{4}$ NW $\frac{1}{4}$ | G.C.& S.F.R.R., blk. D 6 | T. L. & D. Co. | -- | -- | -- | 4 |
| 481 | 11 $\frac{1}{2}$ miles northeast | NE cor. | J. T. Master | Will Castleberry | -- | 1920 | 59 | 8 |
| 482 | 10 miles east | 3, SW $\frac{1}{4}$ NE $\frac{1}{4}$ | E.L.& R.R.R.R., blk. D 7 | B. J. Kaufman | -- | -- | 39 | -- |
| 433 | 8 miles east | 23, SW $\frac{1}{4}$ NW $\frac{1}{4}$ | do. | Jagelky Bros. | Frank Tye | 1935 | 182 | 16 |
| 485 | 15 $\frac{1}{2}$ miles east | 28, SW $\frac{1}{4}$ SE $\frac{1}{4}$ | blk. N | Sam Young | Sam Young | -- | 50 | 5 |
| 486 | 14 miles east | 18, NW $\frac{1}{4}$ NW $\frac{1}{4}$ | do. | Bellview School | -- | -- | 51 | 6 |
| 487 | 15 $\frac{1}{2}$ miles east | 5, SE $\frac{1}{4}$ SE $\frac{1}{4}$ | do. | W. L. Whitt | -- | -- | 57 | 6 |
| 496 | 16 miles northeast | 24, NW $\frac{1}{4}$ NW $\frac{1}{4}$ | D. & P. R.R., blk D 5 | East Mound School | -- | -- | 49 | -- |
| 500 | 3 $\frac{1}{2}$ miles north | 9, NW $\frac{1}{4}$ NE $\frac{1}{4}$ | blk. J K 4 | O. M. Stidham | -- | -- | -- | 4 $\frac{1}{2}$ |
| 501 | do. | 8, NW $\frac{1}{4}$ NW $\frac{1}{4}$ | do. | D. F. Morgan | -- | 1914 | 201 | 60 |
| 502 | 8 miles north | 9, SE $\frac{1}{4}$ SE $\frac{1}{4}$ | do. | O. M. Stidham | -- | Old | 52 | 12 |
| 503 | 7 miles north | 16, SW $\frac{1}{4}$ NE $\frac{1}{4}$ | do. | D. F. Morgan | -- | -- | -- | 4 $\frac{1}{2}$ |
| 504 | 7 $\frac{1}{2}$ miles north | 17, NE $\frac{1}{4}$ NE $\frac{1}{4}$ | do. | J. J. Marshall | -- | 1937 | 72 | 12 |
| 505 | 7 miles north | 18, SW cor. SW $\frac{1}{4}$ | do. | Hooper School | -- | -- | -- | 6 |
| 506 | 8 miles north | 4, SW $\frac{1}{4}$ NE $\frac{1}{4}$ | G.C.& S.F.R.R., blk. J K 2 | J. M. Johnson | -- | 1937 | 200 | -- |
| 507 | 7 $\frac{1}{2}$ miles north | 5, NE $\frac{1}{4}$ SW $\frac{1}{4}$ | do. | Mrs. Mary L. Sampson | -- | -- | -- | 4 |
| 508 | do. | 8, SW cor. SW $\frac{1}{4}$ | do. | Mrs. J. H. Slaton | -- | 1913 | 170 | 72 |
| 509 | 8 miles north | 9, NW $\frac{1}{4}$ SW $\frac{1}{4}$ | do. | R. E. Walker | J. C. Cook | 1935 | 170 | 20 |
| 510 | 9 miles north | 9, NE $\frac{1}{4}$ NE $\frac{1}{4}$ | do. | do. | -- | -- | -- | 6 |
| 511 | 10 miles northeast | 28, NW $\frac{1}{4}$ NW $\frac{1}{4}$ | do. | Dr. J. Anderson | -- | 1912 | 140 | 26 |
| 512 | do. | 28, SW $\frac{1}{4}$ NW $\frac{1}{4}$ | do. | do. | -- | -- | -- | 6 |
| 513 | 9 $\frac{1}{2}$ miles northeast | 29, NW $\frac{1}{4}$ NE $\frac{1}{4}$ | do. | Plainview-Lockney Farms | -- | 1936 | -- | 16 |

| No. | Height of measuring point above ground (ft.) a/ | Water Level | | Pump and power b/ | Use of water c/ | Remarks |
|-----|---|-----------------------------------|---------------------|-------------------|-----------------|--|
| | | Depth below measuring point (ft.) | Date of measurement | | | |
| 475 | — | — | — | None | N | Tested 90 gallons a minute. "Red Beds" at 148 feet. |
| 476 | — | 39 | d/ | None | N | "Red Beds" at 124 feet. |
| 477 | 0.5 | 38.6 | May 7, 1936 | C,G, 40 | I | Reported yield, 250 gallons a minute, 1937. Irrigated 5 acres in 1937. "Red Beds" at |
| 478 | 0.5 | 23.9 | do. | C,W | S | Dirt washed in around column pipe. 149 feet. |
| 480 | — | — | — | C,W | D,S | Hole filled around top. |
| 481 | 0.3 | 43.5 | Oct. 27, 1937 | C,W | D,S | |
| 482 | 0.4 | 31.1 | do. | C,W | S | Located 0.15 mile west of lake. |
| 483 | — | 41 | d/ | None | N | Test hole for irrigation well. See log. |
| 485 | 0 | 32.8 | Nov. 13, 1937 | C,W | D,S | Located 0.1 mile east of lake. |
| 486 | 0.4 | 36.4 | do. | C,W | P | Reported strong supply. |
| 487 | 0.1 | 44.2 | Nov. 16, 1937 | C,W | S | Measured while pumping. |
| 496 | 0.5 | 43.5 | Dec. 6, 1937 | C,W | P | |
| 500 | 1 | 73.8 | June 15, 1937 | C,W | D,S | Located 100 yards east of irrigation well. |
| 501 | — | — | — | None | N | Filled above water level. See log. |
| 502 | 0.4 | 41.4 | July 28, 1937 | C,W | N | Located 150 feet north of lake. |
| 503 | 0.2 | 65.6 | June 8, 1937 | C,W | D,S | |
| 504 | 0.5 | 63.1 | July 28, 1937 | C,W | S | Galvanized casing. Reported strong supply. |
| 505 | 0.2 | 54.9 | June 8, 1937 | C,W | P | |
| 506 | — | — | — | T,G, 85 | I | Reported yield, 1,000 to 1,200 gallons a minute. Not used in 1937. |
| 507 | 0.5 | 41.7 | Apr. 29, 1936 | None | N | |
| 508 | 1 | 47.1 | Aug. 27, 1937 | T,G, — | I | Dug well, 0 to 54 feet; drilled well, 54 to 170 feet. 10-inch steel casing from pit to |
| 509 | — | 45 | d/ | T,G, 85 | I | Reported yield, bottom. Not used in 1937. 800 gallons a minute. Pump set at 70 feet. |
| 510 | 0 | 37.8 | Apr. 27, 1936 | None | N | Irrigated 230 acres in 1937. |
| 511 | 2 | 20.4 | May 4, 1937 | None | N | |
| 512 | 0.6 | 20.4 | Aug. 20, 1937 | C,W | N | Located 200 feet south of unused irrigation well. |
| 513 | 1.2 | 32.7 | Sept. 20, 1937 | T,G, 85 | I | Reported yield, 900 gallons a minute. Irrigated 184 acres in 1937. 12-inch pump set at 100 feet. |

Records of wells in Hale County—Continued

| No. | Distance from Hale Center | Section | Survey, Block | Owner | Driller | Date completed | Depth of well (ft.) | Diameter of well (in.) |
|-----|---------------------------------|---------------------------------------|--------------------------|-------------------------|---------------------|----------------|---------------------|------------------------|
| 514 | 9 miles northeast | 58, NE $\frac{1}{4}$ NE $\frac{1}{4}$ | E.L.& R.R.R.R., blk. A 1 | Boyd Worthington | — | — | — | — |
| 515 | 8 miles northeast | 58, NW $\frac{1}{4}$ SE $\frac{1}{4}$ | do. | Plainview-Lockney Farms | D. L. Handley | 1934 | 172 | 16 |
| 516 | do. | 56, NW $\frac{1}{4}$ NW $\frac{1}{4}$ | do. | O. P. Clark | — | — | — | — |
| 517 | 8 $\frac{1}{2}$ miles northeast | 56, NW $\frac{1}{4}$ NE $\frac{1}{4}$ | do. | Mrs. Green Wilson | — Patton | 1937 | 222 | — |
| 518 | do. | 56, NE $\frac{1}{4}$ SE $\frac{1}{4}$ | do. | Mrs. R. W. Branham | — | — | 77 | 5 |
| 520 | 7 $\frac{1}{2}$ miles northeast | 55, SE $\frac{1}{4}$ SE $\frac{1}{4}$ | do. | Mrs. Mary V. Tyler | Bradford Supply Co. | — | — | — |
| 521 | 7 miles northeast | 55, SE $\frac{1}{4}$ SW $\frac{1}{4}$ | do. | do. | do. | 1937 | — | — |
| 522 | 7 $\frac{1}{2}$ miles northeast | 55, SW $\frac{1}{4}$ NE $\frac{1}{4}$ | do. | R. P. Smyth | — | — | — | — |
| 523 | do. | 54, NE $\frac{1}{4}$ NE $\frac{1}{4}$ | do. | W. E. Risser | — | 1915 | 148 | — |
| 524 | 6 $\frac{1}{2}$ miles northeast | 43, NE $\frac{1}{4}$ NE $\frac{1}{4}$ | do. | Dr. C. C. Gidney Est. | — | 1915 | 163 | — |
| 525 | 7 miles northeast | 53, NE cor. NE $\frac{1}{4}$ | do. | A. F. Neal | — | — | 81 | 10 |
| 526 | 6 miles northeast | 44, NE $\frac{1}{4}$ NE $\frac{1}{4}$ | do. | I. W. Lafrance | — | — | — | — |
| 527 | 5 $\frac{1}{2}$ miles northeast | 44, NW $\frac{1}{4}$ NW $\frac{1}{4}$ | do. | E. Lafrance | — Patton | 1937 | 190 | 16 |
| 528 | do. | do. | do. | do. | — | — | — | — |
| 529 | 6 miles north | 52, SE $\frac{1}{4}$ NW $\frac{1}{4}$ | do. | G. H. Branham | Bradford Supply Co. | 1936 | 218 | 15 $\frac{1}{2}$ |
| 530 | 5 $\frac{1}{2}$ miles north | 52, SW $\frac{1}{4}$ SW $\frac{1}{4}$ | do. | F. E. McDaniel | J. B. Tatum | 1935 | 268 | — |
| 531 | 5 $\frac{1}{2}$ miles northeast | 45, NE cor. NE $\frac{1}{4}$ | do. | do. | do. | 1937 | 267 | — |
| 532 | 5 miles north | 45, NW $\frac{1}{4}$ NW $\frac{1}{4}$ | do. | do. | do. | 1937 | 269 | — |
| 533 | do. | 46, SE $\frac{1}{4}$ NW $\frac{1}{4}$ | do. | Bob Louthan | — | — | — | — |
| 534 | 4 $\frac{1}{2}$ miles north | 46, cen. SW $\frac{1}{4}$ | do. | Louthan Bros. | Cook & Pate | 1937 | 260 | 15 $\frac{1}{2}$ |
| 535 | 5 miles north | 50, SE $\frac{1}{4}$ SE $\frac{1}{4}$ | do. | G. G. Hollingsworth | — | — | — | — |
| 536 | 8 miles north | 63, NW $\frac{1}{4}$ SE $\frac{1}{4}$ | do. | E. M. Carter | — | 1933 | — | — |
| 537 | 6 $\frac{1}{2}$ miles north | 63, NW cor. SW $\frac{1}{4}$ | do. | do. | Baker Pump Co. | 1937 | 192 | — |

| No. | Height of measuring point above ground (ft.) a/ | Water Level | | Pump and power b/ | Use of water c/ | Remarks |
|-----|---|-----------------------------------|---------------------|-------------------|-----------------|---|
| | | Depth below measuring point (ft.) | Date of measurement | | | |
| 514 | 0.5 | 34.8 | Apr. 23, 1937 | C,W | D,S | |
| 515 | 1.2 | 41.9 | Oct. 26, 1937 | T,G, — | I | Reported drawdown, 24 feet after pumping 1,000 gallons a minute for 5 hours. Irrigated 540 acres in 1937. Steel casing, 0 |
| 516 | 0.3 | 28.5 | May 12, 1936 | C,W | D,S | to 172 feet. |
| 517 | — | 47 | d/ | T,G, — | I | Reported irrigated 140 acres in 1937. |
| 518 | 0.5 | 41.3 | July 26, 1937 | C,W | S | Measured 2.4 feet drawdown after pumping 3½ gallons a minute for 1 hour. |
| 520 | — | — | — | T,G, 85 | I | Reported irrigated 100 acres in 1937. |
| 521 | 1.4 | 51.4 | Aug. 11, 1937 | T,G, 85 | I | Reported irrigated 250 acres wheat in 1937. |
| 522 | — | — | — | T,G, — | I | Reported irrigated 107 acres in 1937. |
| 523 | — | — | — | None | N | |
| 524 | — | — | — | None | N | |
| 525 | 0.3 | 61.2 | July 30, 1937 | None | N | |
| 526 | 0.3 | 52 | May 12, 1936 | C,W | D,S | |
| 527 | 1.2 | 55.2 | July 30, 1937 | T,G, — | I | 16-inch steel casing, perforated below water level. |
| 528 | 0.8 | 55.3 | do. | C,W | D,S | Measured drawdown, 0.9 foot after pumping 4 gallons a minute for 3 hours. |
| 529 | — | — | — | T,G, 85 | I | Irrigated 175 acres in 1937. 215 feet 15½-inch steel casing, 0 to 215 feet. 2-stage |
| 530 | — | — | — | T,G, 85 | I | Reported yield, 770 pump set at 80 feet. gallons a minute. Irrigated 300 to 320 acres in 1937. Pump set at 100 feet; 60 |
| 531 | 2 | 60.3 | July 30, 1937 | T,G, — | I | Pump set at 100 feet; feet of suction pipe. 60 feet of suction pipe. |
| 532 | 2.3 | 60.8 | do. | T,G, 50 | I | Reported yield, 1,100 gallons a minute. Pump set at 90 feet; 60 feet of suction pipe. |
| 533 | 0.2 | 52 | May 12, 1936 | C,W | D,S | |
| 534 | 1.2 | 57.6 | July 30, 1937 | T,G, 35 | I | Reported yield, 800 gallons a minute. Irrigated 300 acres in 1937. No casing, 0 to 44 feet; 15½-inch perforated steel casing, 44 to 130 feet; 11½-inch perforated steel casing, 130 to 260 feet. Pump set at 90 feet; 34 feet of 8-5/8-inch suction pipe. |
| 535 | 1 | 49.6 | May 12, 1936 | C,W | D,S | |
| 536 | 0.8 | 65.4 | Apr. 23, 1937 | T,G, 85 | I | Reported irrigated 124 acres in 1937. |
| 537 | — | — | — | T,G, 85 | I | Reported irrigated 241 acres in 1937. No casing. 3-stage pump set at 120 feet; 61 feet of suction pipe. |

Records of wells in Hale County--Continued

| No. | Distance from Hale Center | Section | Survey, Block | Owner | Driller | Date completed | Depth of well (ft.) | Diameter of well (in.) |
|-----|---------------------------------|---------------------------------------|----------------------------|-----------------|---------------------|----------------|---------------------|------------------------|
| 539 | 3 $\frac{1}{4}$ miles northeast | 29, SE $\frac{1}{4}$ SE $\frac{1}{4}$ | E.L. & R.R.R.R., blk. A 1. | Fred Ratstetter | Fred Ratstetter | 1914 | 175 | -- |
| 540 | 4 $\frac{1}{2}$ miles northeast | 28, NE $\frac{1}{4}$ NE $\frac{1}{4}$ | do. | E. E. Prosser | -- | -- | 72 | 6 |
| 541 | do. | 27, SW $\frac{1}{4}$ NW $\frac{1}{4}$ | do. | F. A. Davis | -- | -- | -- | -- |
| 542 | 6 miles northeast | 28, NE $\frac{1}{4}$ NE $\frac{1}{4}$ | do. | J. B. Hay | -- | -- | -- | 6 |
| 543 | do. | 29, NW $\frac{1}{4}$ NW $\frac{1}{4}$ | do. | J. E. Langston | -- | -- | -- | 6 |
| 544 | 5 $\frac{1}{2}$ miles northeast | 26, SW $\frac{1}{4}$ NW $\frac{1}{4}$ | do. | Lee Rushing | Baker Pump Co. | 1937 | 219 | 16 |
| 545 | 6 miles northeast | 26, NE $\frac{1}{4}$ SE $\frac{1}{4}$ | do. | C. M. Walter | -- Patton | 1937 | 222 | 16 |
| 546 | 6 $\frac{1}{2}$ miles northeast | 26, NE $\frac{1}{4}$ NE $\frac{1}{4}$ | do. | G. E. Bench | -- | -- | -- | -- |
| 547 | 7 miles northeast | 40, NW $\frac{1}{4}$ NW $\frac{1}{4}$ | do. | O. C. McClain | -- | -- | -- | -- |
| 548 | do. | 40, SW $\frac{1}{4}$ SE $\frac{1}{4}$ | do. | O. T. Britton | D. Lynn | 1937 | 211 | 15 $\frac{1}{2}$ |
| 549 | do. | 25, SW $\frac{1}{4}$ NE $\frac{1}{4}$ | do. | Bennie Harris | -- | -- | -- | -- |
| 550 | 7 miles east | 24, NE $\frac{1}{4}$ NE $\frac{1}{4}$ | do. | S. M. True | -- | -- | -- | -- |
| 551 | 6 $\frac{1}{2}$ miles east | 9, SE $\frac{1}{4}$ SE $\frac{1}{4}$ | do. | S. M. Buchanan | -- | -- | -- | -- |
| 552 | 4 miles east | 5, NE $\frac{1}{4}$ NW $\frac{1}{4}$ | do. | H. S. Dunaway | T.L. & D. Co. | 1914 | -- | 24 |
| 553 | 4 $\frac{1}{2}$ miles east | 6, NW $\frac{1}{4}$ NE $\frac{1}{4}$ | do. | T. L. & D. Co. | do. | 1914 | 309 | 26 |
| 554 | do. | 11, SW $\frac{1}{4}$ SE $\frac{1}{4}$ | do. | J. P. Sheppard | -- | -- | -- | -- |
| 555 | do. | 22, SE $\frac{1}{4}$ SW $\frac{1}{4}$ | do. | W. I. Pricer | -- | -- | -- | -- |
| 557 | 4 miles northeast | 21, NE $\frac{1}{4}$ NE $\frac{1}{4}$ | do. | -- | -- | -- | -- | -- |
| 558 | 3 $\frac{1}{4}$ miles northeast | 21, NW $\frac{1}{4}$ NW $\frac{1}{4}$ | do. | C. L. Barnes | -- | -- | -- | 6 |
| 559 | 3 $\frac{1}{2}$ miles northeast | 21, SE $\frac{1}{4}$ NW $\frac{1}{4}$ | do. | W. L. Hinton | Bradford Supply Co. | 1936 | 210 | -- |
| 560 | 3 $\frac{1}{2}$ miles east | 21, SE $\frac{1}{4}$ SE $\frac{1}{4}$ | do. | W. J. Williams | -- McDaniels | 1937 | 312 | -- |
| 561 | 2 $\frac{3}{4}$ miles east | 12, NW $\frac{1}{4}$ SW $\frac{1}{4}$ | do. | C. L. Roney | Bradford Supply Co. | 1937 | 263 | 15 $\frac{1}{2}$ |
| 562 | 2 $\frac{1}{2}$ miles east | 13, NE $\frac{1}{4}$ NE $\frac{1}{4}$ | do. | J. B. Maxey | -- | -- | -- | -- |

a/ Measuring point was usually top of casing, pump base, pipe clamp, or well curb. Point was above ground unless below ground indicated by minus (-) sign.

b/ T, turbine; Cf, centrifugal; C, cylinder; E, electric; G, gasoline; O, diesel or oil; Ng, natural gas; W, windmill; H, hand; number indicates horsepower.

| No. | Height of measuring point above ground (ft.) a/ | Water Level | | Pump and power | Use of water | Remarks |
|-----|---|-----------------------------------|---------------------|----------------|--------------|---|
| | | Depth below measuring point (ft.) | Date of measurement | | | |
| 539 | 2.3 | 56.8 | Oct. 26, 1937 | None | N | Former irrigation well. See log. |
| 540 | 0.5 | 51.4 | July 26, 1937 | C,W | D,S | Tile casing, 0 to 3 feet; uncased, 3 to 72 feet. Supplies dairy. |
| 541 | -- | 50 | d/ | C,W | D,S | |
| 542 | 2.5 | 35.6 | Aug. 11, 1937 | C,W | N | Located 400 feet east of lake. |
| 543 | 0 | 41.2 | May 9, 1936 | C,W | N | Located 500 feet northwest of lake. |
| 544 | -- | -- | -- | T,G, -- | I | 219 feet casing. Irrigated 135 acres in 1937. |
| 545 | -- | -- | -- | T,G, -- | I | 222 feet steel casing. Pump set at 110 feet. Irrigated 267 acres in 1937. |
| 546 | 1 | 43.1 | May 9, 1936 | C,W | D | |
| 547 | 0.5 | 51.3 | Apr. 24, 1937 | C,W | N | Twin-wheel windmill. Formerly used as irrigation well. |
| 548 | 0.7 | 54.7 | Aug. 14, 1937 | T,G, -- | I | Measured 14.5 feet drawdown after pumping about 750 gallons a minute for 7 minutes. 131 feet steel casing. Water reported in fine sand and gravel. Pump set at 90 feet. |
| 549 | 0.3 | 56.2 | Apr. 24, 1937 | C,G, 4 | N | |
| 550 | 1 | 51 | do. | C,W | S | |
| 551 | 0.3 | 41.2 | Apr. 24, 1937 | C,W | D | Reported unused for several months. |
| 552 | 1 | 59.9 | Apr. 26, 1937 | T,O, 50 | I | Irrigated 17 acres in 1937. Pump set at 110 feet. |
| 553 | 0.5 | 54.9 | do. | T,O, -- | I | Reported yield, 1,000 gallons a minute. |
| 554 | -- | -- | -- | T,G, -- | I | |
| 555 | 0.6 | 54.9 | Apr. 24, 1937 | C,W | D | Concrete curb. |
| 557 | 0.2 | 51.7 | do. | C,W | D,S | |
| 558 | 0.4 | 56.9 | do. | C,W | D | Basin 0.2 mile southwest. Located 0.2 mile northeast of sink. |
| 559 | -- | -- | -- | T,G, -- | I | Reported yield, 800 gallons a minute. Irrigated 357 acres in 1937. |
| 560 | -- | -- | -- | T,G, -- | I | Reported yield, 1,000 gallons a minute. Irrigated 90 acres in 1937. Pump set at 120 feet. "Red Beds" reported at 312 feet. |
| 561 | -- | -- | -- | T,G, -- | I | Irrigated 203 acres in 1937. 118 feet perforated casing. |
| 562 | 0.4 | 56.3 | Apr. 26, 1937 | None | N | |

c/ P, public; D, domestic; I, irrigation; S, stock; N, not used.
d/ Water level reported.

Records of wells in Hale County—Continued

| No. | Distance from Hale Center | Section | Survey, Block | Owner | Driller | Date completed | Depth of well (ft.) | Diameter of well (in.) |
|-----|----------------------------------|---------------------------------------|----------------------------|---------------------|---------------------|----------------|---------------------|------------------------|
| 565 | 2 miles northeast | 13, NW $\frac{1}{2}$ NW $\frac{1}{2}$ | E.L. & R.R.R.R., blk. A 1, | — Birdwell | — | — | — | 18 |
| 564 | do. | 20, NW $\frac{1}{2}$ SW $\frac{1}{2}$ | do. | T. F. Mounts | — | 1936 | — | 16 |
| 565 | 1 $\frac{1}{2}$ miles northeast | 14, NE $\frac{1}{2}$ NE $\frac{1}{2}$ | do. | S. Underwood | — | — | 56 | 6 |
| 566 | 1 $\frac{1}{2}$ miles northeast | 14, NE $\frac{1}{2}$ NW $\frac{1}{2}$ | do. | City of Hale Center | — | — | 67 | 6 |
| 567 | 1 $\frac{1}{2}$ miles northeast | 19, SW $\frac{1}{2}$ SW $\frac{1}{2}$ | do. | J. B. Maxey | — | — | — | 6 |
| 568 | 1 $\frac{1}{2}$ miles east | 4, NW $\frac{1}{2}$ SW $\frac{1}{2}$ | do. | W. A. Jones | D. C. Dublin | 1925 | 289 | 25 |
| 569 | 1 mile southeast | 3, SW $\frac{1}{2}$ SW $\frac{1}{2}$ | do. | O. C. Sanders | — | 1917 | 210 | 26 |
| 570 | $\frac{1}{2}$ mile west | 16, SE $\frac{1}{2}$ SE $\frac{1}{2}$ | do. | Robert Alley | Green Machinery Co. | 1911 | 250 | 60 |
| 571 | 2 $\frac{1}{4}$ miles northwest | 17, SW $\frac{1}{2}$ NW $\frac{1}{2}$ | do. | D. T. Bridges | — McDonald | 1937 | 170 | 16 |
| 572 | In Hale Center | 15, SE $\frac{1}{2}$ SW $\frac{1}{2}$ | do. | City of Hale Center | W. G. Sears | 1926 | 120 | 12 |
| 573 | do. | do. | do. | do. | Garms & Mounts | 1936 | 123 | 12 |
| 601 | 15 $\frac{1}{2}$ miles northwest | 14, SE $\frac{1}{2}$ NE $\frac{1}{2}$ | D. & S.E.R.R., blk. O 2, | C. M. Wilson | Green Machinery Co. | 1936 | 180 | 16 |
| 602 | 14 $\frac{1}{2}$ miles northwest | 10, NE $\frac{1}{2}$ NE $\frac{1}{2}$ | do. | Mrs. M. Cornelius | — | — | 69 | — |
| 603 | 11 $\frac{1}{2}$ miles northwest | 22, NW $\frac{1}{2}$ NW $\frac{1}{2}$ | D. & S.E.R.R., blk. O, | F. G. Cornelius | M. A. Patton | 1936 | 240 | 14 |
| 604 | do. | 23, NE $\frac{1}{2}$ SE $\frac{1}{2}$ | do. | E. M. Barron | — | — | 92 | 6 |
| 605 | do. | 23, NE $\frac{1}{2}$ NE $\frac{1}{2}$ | do. | J. O. Douglas | — | — | 108 | 4 $\frac{1}{2}$ |
| 606 | do. | 14, NW $\frac{1}{2}$ NW $\frac{1}{2}$ | do. | J. D. Cobb | Green Machinery Co. | 1937 | 203 | 18 |
| 607 | 10 $\frac{1}{2}$ miles northwest | 2, NW $\frac{1}{2}$ NW $\frac{1}{2}$ | do. | Halfway School | — | — | 87 | — |
| 608 | 9 $\frac{1}{2}$ miles northwest | 12, NE $\frac{1}{2}$ NW $\frac{1}{2}$ | blk. J K 4 | Frank Helm | Green Machinery Co. | 1937 | 212 | 14 |
| 609 | do. | do. | do. | do. | — | — | — | — |
| 610 | 8 $\frac{1}{2}$ miles northwest | 14, NW $\frac{1}{2}$ NW $\frac{1}{2}$ | do. | Fred Spraggins | G. Garms | 1937 | 204 | 16 |
| 611 | 8 miles north | 15, NW $\frac{1}{2}$ NW $\frac{1}{2}$ | do. | Eber Davis | M. A. Patton | 1936 | 279 | 14 |
| 612 | 8 $\frac{1}{2}$ miles north | 10, NW $\frac{1}{2}$ SE $\frac{1}{2}$ | do. | J. P. Potts | J. C. Cook | 1935 | 190 | 18 |

| No. | Height of measuring point above ground (ft.) a/ | Water Level | | Pump and power b/ | Use of water c/ | Remarks |
|-----|---|-----------------------------------|---------------------|-------------------|-----------------|---|
| | | Depth below measuring point (ft.) | Date of measurement | | | |
| 563 | — | — | — | None | N | Reported filled to 24 feet. Formerly used as irrigation well. |
| 564 | 0.5 | 56.4 | Aug. 16, 1937 | None | N | No casing. Reported insufficient supply for irrigation. |
| 565 | 0.2 | 51.9 | Apr. 26, 1937 | None | N | No casing. Unused since 1935. |
| 566 | 0.4 | 40.8 | July 17, 1937 | C,H | D,S | Located 700 feet northeast of sink. |
| 567 | 0.3 | 52.9 | Apr. 26, 1937 | C,H | D,S | |
| 568 | 0 | 59.9 | Aug. 16, 1937 | T,O, 50 | I | Reported yield, 800 to 1,000 gallons a minute. Irrigated 79 acres in 1937. |
| 569 | 0 | 55.6 | Apr. 26, 1937 | T,O, 60 | I | Measured yield, 600 gallons a minute, 1936, by Resettlement Administration. Irrigated |
| 570 | — | — | — | T,O, 50 | N | Reported strong supply; 52 acres in 1937. not used since 1925. Will use in 1938. |
| 571 | — | 63 | d/ | T,G, 85 | I | Reported yield, 1,000 gallons a minute. Irrigated 140 acres in 1937. 80 feet of steel casing. Pump set at 90 feet. |
| 572 | — | 51 | d/ | T,E, 50 | P | Reported drawdown 40 feet after pumping 543 gallons a minute for 12 hours. Water reported in sandstone, 70 to 93 feet. |
| 573 | — | 51 | d/ | T,E, 25 | P | Reported drawdown, 40 feet after pumping 500 gallons a minute for 12 hours. Reported average yield of wells 572 and 573, 150,000 |
| 601 | 1.3 | 75.4 | Oct. 18, 1937 | T,G, 45 | I | Reported yield, 1,000 gallons a day. gallons a minute. Irrigated 165 acres in |
| 602 | 0.3 | 54.5 | Oct. 11, 1937 | C,W | S | Stock well; 1937. Pump set at 96 feet. not used in 1937. |
| 603 | — | 70 | 1937 d/ | T,O, 50 | I | Reported yield, 900 gallons a minute. Pump set at 110 feet. Irrigated 335 acres in |
| 604 | 0.3 | 78.1 | July 23, 1937 | C,W | N | Located 0.6 mile southeast of sink. 1937. |
| 605 | 3 | 84.4 | June 15, 1937 | C,W | N | |
| 606 | 4 | 86.9 | Oct. 18, 1937 | T,G, — | I | Reported yield, 800 gallons a minute. New well; irrigated 20 acres in 1937. Pump set |
| 607 | 0.4 | 67.7 | Aug. 17, 1937 | C,W | P | at 110 feet. |
| 608 | — | 64 | d/ | T,G, 85 | I | Reported yield, 1,000 gallons a minute. Irrigated 279 acres in 1937. Pump set at 96 |
| 609 | 0 | 79 | Apr. 27, 1936 | C,W | D,S | feet. |
| 610 | — | 58 | d/ | T,G, 60 | I | Reported yield, 1,100 gallons a minute. Irrigated 256 acres in 1937. Cased to bot- |
| 611 | — | 65 | d/ | T,G, 85 | I | Reported tom. "Red beds" at 204 feet. yield, 900 gallons a minute. Pump set at 100 feet; 129 feet of suction pipe. "Red |
| 612 | — | 60 | d/ | T,G, — | I | Measured yield, 755 "Beds" at 279 feet. gallons a minute, by Resettlement Administration. Irrigated 177 acres in 1937. Pump set at 80 feet. |

Records of wells in Hale County--Continued

| No. | Distance from Hale Center | Section | Survey, Block | Owner | Driller | Date completed | Depth of well (ft.) | Diameter of well (in.) |
|-----|---------------------------|--------------------------|--------------------------------|----------------------|----------------|----------------|---------------------|------------------------|
| 615 | 8½ miles north | 9, NE¼NW¼ | blk. J K 4 | O. M. Stidham | O. M. Stidham | 1935 | 215 | 16 |
| 614 | 7 miles north | 16, SE¼SW¼ | do. | Martha Glover | Baker Pump Co. | 1935 | 145 | 15 |
| 615 | do. | 1, NE¼NE¼ | blk. J D | W. D. Chapman | — | — | — | — |
| 616 | 6 miles northwest | 3, NE¼NE¼ | do. | E. C. Laney | G. Garms | 1935 | 95 | — |
| 617 | 5½ miles northwest | 3, SE¼SE¼ | do. | J. E. Laney | do. | 1937 | 165 | 14 |
| 618 | 8 miles northwest | 4, NE¼SE¼ | D. & S. E. R. R., blk. O; | R. Thompson | — | — | 85 | — |
| 619 | 8½ miles northwest | 4, NW¼SW¼ | do. | D. L. Helm | — | Old | 78 | 6 |
| 620 | do. | 17, SE¼SE¼ | do. | Fred Butler | — | — | 60 | — |
| 621 | 9½ miles northwest | 19, NE¼NE¼ | do. | E. S. Crow | — | — | 80 | 5 |
| 622 | 10½ miles northwest | 21, SE cor. SW¼ | do. | W. E. Cannon | — Sawyers | 1937 | 200 | 14 |
| 623 | 13 miles west | 6, SW cor. SW¼ | D. & S. E. R. R., blk. O 2 | Sunshine School | — | — | 68 | — |
| 624 | do. | 17, SW¼NW¼ | E. L. & R. R. R. R., blk. J D, | A. W. Armstrong | — | Old | 85 | — |
| 625 | do. | 31, NW¼SW¼ | R. M. Thompson, blk. J D. | W. M. Mullican | — | — | — | — |
| 626 | 10½ miles west | 24, SE¼SE¼ | E. L. & R. R. R. R., blk. J D. | Ida M. Sluss | — | — | 72 | 6 |
| 627 | do. | 22, SW¼SW¼ | do. | G. & R. Moody | — | — | — | — |
| 628 | 8 miles northwest | 13, SE¼SE¼ | do. | H. L. Faith | — | — | 78 | — |
| 629 | 7 miles northwest | 27, NE¼NE¼ | E. L. & R. R. R. R., blk. A 2, | Mayfield School | — | — | 81 | — |
| 630 | 5½ miles northwest | 10, SW¼SW¼ | E. L. & R. R. R. R., blk. J D. | A. D. Hooper | — | — | 72 | 6 |
| 631 | 4 miles northwest | 8, SE cor. 187 ac. tract | do. | Carl Laney | G. Garms | 1934 | 92 | — |
| 632 | 5½ miles west | 3, SE¼SE¼ | E. L. & R. R. R. R., blk. A 2, | Jos. Kor | — | — | 72 | — |
| 633 | 4 miles west | 5, NE¼NW¼ | do. | Mrs. Ethel Griffin | W. G. Sears | 1922 | 67 | — |
| 634 | 2¼ miles west | 7, SW¼SW¼ | do. | H. B. Bates | H. C. Cornett | 1927 | 90 | — |
| 635 | 1½ miles southwest | 7, cen. SE¼ | do. | J. E. Castleberry | — | 1915 | 172 | — |
| 636 | 7 miles northwest | 23, NE¼NE¼ | blk. J K 4 | Noah Tipton | — | — | — | — |
| 639 | 8½ miles west | SE¼ | P. S. Green | Center Plains School | — | — | — | 4½ |

| No. | Height of measuring point above ground (ft.) a/ | Water Level | | Pump and power b/ | Use of water c/ | Remarks |
|-----|---|-----------------------------------|---------------------|-------------------|-----------------|--|
| | | Depth below measuring point (ft.) | Date of measurement | | | |
| 613 | — | — | — | T,O, 60 | I | Reported yield, 1,200 gallons a minute. Irrigated 220 acres in 1937. |
| 614 | 1.3 | 70.8 | June 8, 1937 | T,G, 85 | I | Reported yield, 1,200 gallons a minute. Irrigated 140 acres in 1937. |
| 615 | 0.2 | 58.5 | May 11, 1936 | — | D | Not used for 12 hours before measurement. |
| 616 | 1.1 | 60.7 | Aug. 26, 1937 | T,G, — | I | Reported yield, 500 gallons a minute. Irrigated 22 acres, 1937. Bottom of suction |
| 617 | 1 | 54.5 | do. | T,G, 40 | I | Reported yield, 600 to pipe at 96 feet. 700 gallons a minute. Irrigated 30 acres in 1937. Chief aquifer, 144 to 160 feet; others 51 feet and 80 to 104 feet. |
| 618 | 1.2 | 56.6 | Oct. 18, 1937 | C,W | D,S | |
| 619 | 0.2 | 70.2 | do. | C,W | N | Not used for several months in 1937. |
| 620 | — | 40 | d/ | C,W | D,S | |
| 621 | 0.6 | 61.6 | Oct. 18, 1937 | None | N | Former stock well. |
| 622 | 2 | 70.7 | Oct. 19, 1937 | T,G, 50 | I | Reported yield, 1,000 gallons a minute. Irrigated 780 acres in 1937. |
| 623 | 0.1 | 51.1 | Oct. 11, 1937 | C,W | P | |
| 624 | 0.5 | 45.6 | do. | C,W | S | |
| 625 | — | — | — | — | — | |
| 626 | 0.5 | 61.2 | Oct. 19, 1937 | None | — | |
| 627 | — | — | — | C,W | S | Could not measure below 45 feet. No water at that depth. |
| 628 | 0.3 | 62.4 | Aug. 16, 1937 | C,W | D,S,I | Irrigates small garden. Reported never fails. Pumping slowly while measured. |
| 629 | 0 | 60.2 | Aug. 12, 1937 | C,W | P | |
| 630 | 0 | 54.6 | Oct. 18, 1937 | None | N | |
| 631 | 1 | 57.1 | Aug. 26, 1937 | T,G, — | I | Reported yield, 700 gallons a minute. Irrigated 45 acres, 1937. Water at 63 feet, and |
| 632 | 0.1 | 60.4 | Oct. 18, 1937 | C,W | N | Former stock well. in white sand at 78 to 92 feet. |
| 633 | 1 | 51.7 | Aug. 10, 1937 | None | N | |
| 634 | — | — | — | None | N | Oil test. Reported altitude, 3,444 feet. |
| 635 | — | — | — | None | N | Located on edge of basin. Former irrigation well. |
| 636 | 0.2 | 63.6 | May 11, 1936 | — | D | |
| 639 | — | — | — | C,W | P,D | |

Records of wells in Hale County—Continued

| No. | Distance from Hale Center | Section | Survey, Block | Owner | Driller | Date completed | Depth of well (ft.) | Diameter of well (in.) |
|------|----------------------------------|--|----------------------------|------------------------------|---------------------|----------------|---------------------|------------------------|
| 701 | 14 miles west | 23, SW $\frac{1}{4}$ SW $\frac{1}{4}$ | R. M. Thompson, blk. B. | T. P. Bennett | — | 1937 | 246 | 16 |
| 702 | 12 miles west | 26 cen. strip | do. | W. M. Millican | Bailey & Everett | 1928 | 200 | — |
| 703 | do. | 21 NW cor. strip | do. | do. | Donnell Pet. Co. | 1928 | 620 | — |
| 704 | do. | 21 cen. strip | do. | do. | do. | 1928 | 415 | — |
| 705 | 11 $\frac{1}{2}$ miles west | 65, cen. NW $\frac{1}{4}$ NW $\frac{1}{4}$ | E.L.& R.R.R.R., blk. A 3 | M. L. Kittrell | Gouldy, et al. | 1927 | 458 | — |
| 706 | do. | 65, SE $\frac{1}{4}$ SW $\frac{1}{4}$ | do. | T. C. Dyer | — | — | 276 | — |
| 707 | 9 $\frac{1}{2}$ miles west | 28, NW $\frac{1}{4}$ S $\frac{1}{2}$ | R. M. Thompson, blk. B. | John Schoonvelt | Mounts & Garmes | 1935 | 200 | 16 |
| 708 | 8 $\frac{1}{2}$ miles west | 1, NW $\frac{1}{4}$ NW $\frac{1}{4}$ | E.L.& R.R.P.R., blk. A 3 | J. W. Stephens | — | 1935 | 150 | 12 |
| 709 | 7 miles southwest | 12, SW $\frac{1}{4}$ SW $\frac{1}{4}$ | do. | Dallas Joint Stock Land Bank | — | — | 77 | 6 |
| 710 | 6 miles west | 3, SE $\frac{1}{4}$ NE $\frac{1}{4}$ | do. | M. K. Fisher | — Alderman | 1937 | 200 | 18 |
| 711 | 5 $\frac{1}{2}$ miles southwest | 18, NE cor. NE $\frac{1}{4}$ | do. | E. Hammett | Talbat & Simms | 1927 | 350 | — |
| 712 | 5 $\frac{1}{2}$ miles south | 35, NE $\frac{1}{4}$ NE $\frac{1}{4}$ | do. | J. N. Jeffreys | — | 1917 | 300 | 24 |
| 713 | 6 $\frac{1}{2}$ miles southwest | 24, SW $\frac{1}{4}$ SW $\frac{1}{4}$ | do. | J. C. Harrell | — | — | 151 | — |
| 714 | 9 miles southwest | 30, SE $\frac{1}{4}$ SE $\frac{1}{4}$ | do. | O. C. Sanders | — | Old | 85 | 6 |
| 715 | 10 miles southwest | 45, NE $\frac{1}{4}$ NE $\frac{1}{4}$ | do. | Wiley Bogart | — | — | 97 | — |
| 716 | 11 $\frac{1}{2}$ miles southwest | 44, SW $\frac{1}{4}$ NW $\frac{1}{4}$ | do. | do. | — Coffee | — | 85 | 4 |
| 717 | 10 miles southwest | 29, NW $\frac{1}{4}$ NW $\frac{1}{4}$ | do. | N. J. Walker | Bradford Supply Co. | 1937 | 220 | 15 $\frac{1}{2}$ |
| 718 | 13 $\frac{1}{2}$ miles southwest | 5, NW $\frac{1}{4}$ NE $\frac{1}{4}$ | E.L.& R.R.R.R., blk. D 10. | Mrs. H. D. Johnson | Peerless Pump Co. | 1936 | 210 | 15 $\frac{1}{2}$ |
| 719 | 15 miles southwest | 21, cen. | Sabine C. S. L. | W. Bogart | — | — | — | — |
| 720 | 16 miles southwest | 29, NE $\frac{1}{4}$ NE $\frac{1}{4}$ | do. | R. V. Hand | — | — | 26 | — |
| 720a | 17 miles southwest | 24, NW $\frac{1}{4}$ NW $\frac{1}{4}$ | do. | G. W. Herd Ranch | Wm. Groat | 1931 | 480 | — |
| 721 | 13 $\frac{1}{2}$ miles southwest | 9, SW $\frac{1}{4}$ SE $\frac{1}{4}$ | do. | L. F. Thompson | — | 1933 | 230 | 16 |
| 722 | 12 $\frac{1}{2}$ miles southwest | 2, NW $\frac{1}{4}$ NW $\frac{1}{4}$ | do. | do. | — | 1937 | 220 | 16 |
| 723 | 13 $\frac{1}{2}$ miles southwest | 3, SW $\frac{1}{4}$ NE $\frac{1}{4}$ | do. | do. | — | 1933 | 235 | 16 |
| 724 | do. | 4, NE $\frac{1}{4}$ NE $\frac{1}{4}$ | do. | Mrs. H. D. Johnson | Peerless Pump Co. | 1936 | 240 | 15 $\frac{1}{2}$ |

| No. | Height of measuring point above ground (ft.) a/ | Water Level | | Pump and power b/ | Use of water c/ | Remarks |
|------|---|-----------------------------------|---------------------|-------------------|-----------------|--|
| | | Depth below measuring point (ft.) | Date of measurement | | | |
| 701 | -- | 78 | d/ | T, G, 85 | I | Irrigated 150 acres in 1937. South edge of sandhills. |
| 702 | -- | -- | -- | None | N | Oil test. |
| 703 | -- | -- | -- | None | N | Do. |
| 704 | -- | -- | -- | None | N | Do. |
| 705 | -- | -- | -- | None | N | Do. |
| 706 | -- | 80 | d/ | T, O, 40 | I | 10-inch pump. Irrigated 300 acres in 1937. |
| 707 | -- | -- | -- | T, G, 46 | I | 16- and 9-inch steel casing, 0 to 200 feet. 9-inch pump. Irrigated 150 acres in 1937. |
| 708 | 0.4 | 71.1 | Aug. 10, 1937 | None | N | |
| 709 | 0.2 | 66.4 | Oct. 19, 1937 | C, W | D, S | |
| 710 | -- | 66 | d/ | T, G, 85 | I | No casing. 2-stage pump set at 110 feet; 20 feet of suction pipe. Irrigated 160 acres in 1937. Reported generally irrigates |
| 711 | -- | -- | -- | None | N | Oil test. 12 acres every 24 hours. |
| 712 | 3 | 74.8 | Aug. 10, 1937 | T, O, 80 | I | Steel casing. Irrigated 75 acres cotton in 1937. |
| 713 | 0.5 | 68.1 | Oct. 19, 1937 | C, W | D, S | Measured while pumping. |
| 714 | 0.4 | 77.8 | do. | C, W | S | Unused in fall of 1937. |
| 715 | 0 | 85.4 | July 29, 1937 | C, H | D, S | |
| 716 | 1.5 | 78 | July 28, 1937 | C, W | D, S | Irrigates small garden. |
| 717 | -- | -- | -- | T, G, 85 | I | Irrigated 140 acres in 1937. 15 $\frac{1}{2}$ - and 12-inch steel casing, 0 to 185 feet. Water sand, 90 to 130 feet and 140 to 200 feet. |
| 718 | -- | 84 | d/ | T, G, 85 | I | Reported yield, 750 gallons a minute. Irrigated 200 acres in 1937. 15 $\frac{1}{2}$ -inch steel |
| 719 | 7 | 24 | July 27, 1937 | None | N | Old windmill well. casing, 0 to 60 feet. |
| 720 | 1 | 17 | do. | C, W | S | |
| 720a | -- | -- | -- | None | N | See log. |
| 721 | -- | 92 | d/ | T, G, 50 | I | Irrigated 240 acres in 1937. 16- and 12-inch steel casing, 0 to 230 feet. 8-inch |
| 722 | -- | 90 | d/ | T, G, 85 | I | Irrigated 264 acres in 1937. 16- pump. and 12-inch steel casing, 0 to 130 feet. |
| 723 | -- | 89 | d/ | T, G, 50 | I | Irrigated 350 acres in 1937. 16- and 12-inch steel casing, 0 to 235 feet. |
| 724 | 0.6 | 95.2 | July 27, 1937 | T, G, 40 | I | Reported yield, 750 gallons a minute. Irrigated 160 acres in 1937. 15 $\frac{1}{2}$ - and 12-inch steel casing, 0 to 240 feet. |

Records of wells in Hale County--Continued

| No. | Distance from Hale Center | Section | Survey, Block | Owner | Driller | Date completed | Depth of well (ft.) | Diameter of well (in.) |
|-----|----------------------------------|---------------------------------------|----------------------------|---------------------------|-----------------------|----------------|---------------------|------------------------|
| 725 | 12 $\frac{1}{2}$ miles southwest | 6, SE $\frac{1}{4}$ SE $\frac{1}{4}$ | H.E. & W.T.R.R., blk. W | Elbert Brown | --- | --- | 92 | --- |
| 726 | 11 $\frac{1}{2}$ miles southwest | 10, NW $\frac{1}{4}$ NW $\frac{1}{4}$ | do. | Mrs. Leeta Flores | --- | Old | 93 | --- |
| 727 | 9 $\frac{1}{2}$ miles southwest | 91, NW $\frac{1}{4}$ NW $\frac{1}{4}$ | E.L. & R.R.R.R., blk. A 4 | Otey Shadden | H. L. Bartlett | 1937 | 237 | 15 $\frac{1}{2}$ |
| 728 | 9 miles south | 52, SE $\frac{1}{4}$ SE $\frac{1}{4}$ | E.L. & R.R.R.R., blk. A 3, | William Albers | --- | --- | 92 | --- |
| 729 | 10 $\frac{1}{2}$ miles south | 88, NW $\frac{1}{4}$ NW $\frac{1}{4}$ | E.L. & R.R.R.R., blk. A 4 | W. E. Riser | --- | 1930 | 107 | 4 |
| 730 | 11 $\frac{1}{2}$ miles south | 85, SE $\frac{1}{4}$ SE $\frac{1}{4}$ | do. | W. T. Webb | --- | --- | --- | 4 |
| 731 | 13 $\frac{1}{2}$ miles south | 79, NE $\frac{1}{4}$ NE $\frac{1}{4}$ | do. | J. C. Waggoner | --- | --- | 110 | --- |
| 732 | 16 miles south | 6, cen. N. line | blk. C K | W. V. Chapman | --- | --- | 140 | --- |
| 733 | do. | 17, SW $\frac{1}{4}$ SE $\frac{1}{4}$ | W. A. Richter blk. X | W. A. Richter | Bledsoe Oil & Gas Co. | 1922 | 4,500 | --- |
| 734 | do. | 17, SW $\frac{1}{4}$ SW $\frac{1}{4}$ | do. | do. | A. S. Mims | 1927 | 1,403 | --- |
| 735 | 16 $\frac{1}{2}$ miles south | 23, NE $\frac{1}{4}$ NE $\frac{1}{4}$ | E.L. & R.R.R.R., blk. D T | Mrs. Adele Brickley | --- | --- | 132 | --- |
| 736 | 15 miles southwest | 13, NW $\frac{1}{4}$ NW $\frac{1}{4}$ | H.E. & W.T.R.R., blk. W | Continental National Bank | --- | --- | 100 | --- |
| 737 | 17 $\frac{1}{2}$ miles southwest | 21, NE $\frac{1}{4}$ NE $\frac{1}{4}$ | E.L. & R.R.R.R., blk. D T | Mrs. Adele Brickley | E. T. Maupin | 1932 | --- | --- |
| 739 | 19 miles southwest | 13, SW $\frac{1}{4}$ SE $\frac{1}{4}$ | do. | S. L. Eason | Morgan Handley | 1935 | 320 | 16 |
| 740 | 19 $\frac{1}{2}$ miles southwest | 14, NW $\frac{1}{4}$ SW $\frac{1}{4}$ | do. | Lee Irish | --- | --- | --- | 4 |
| 741 | 17 $\frac{1}{2}$ miles southwest | 4, NE $\frac{1}{4}$ NW $\frac{1}{4}$ | do. | A. O. Vaughn | Earl Maupin | 1903 | 115 | --- |
| 749 | 10 miles southwest | 29, SW $\frac{1}{4}$ NW $\frac{1}{4}$ | E.L. & R.R.R.R., blk. A 3, | Cotton Center School | --- | --- | --- | 4 $\frac{1}{2}$ |
| 801 | 2 $\frac{1}{4}$ miles south | 14, NW $\frac{1}{4}$ NW $\frac{1}{4}$ | E.L. & R.R.R.R., blk. A 4 | J. H. Hooker | --- | 1916 | 100 | 5 |
| 802 | 2 $\frac{1}{2}$ miles southeast | 14, NW $\frac{1}{4}$ NW $\frac{1}{4}$ | do. | O. T. Swenson | --- | --- | 56 | --- |
| 803 | 3 $\frac{1}{4}$ miles southeast | 5, SW $\frac{1}{4}$ SW $\frac{1}{4}$ | do. | Arthur Ford | --- | 1911 | 67 | 4 $\frac{1}{2}$ |
| 804 | 5 $\frac{1}{2}$ miles east | 7, NE $\frac{1}{4}$ SW $\frac{1}{4}$ | do. | W. J. Lloyd | --- | --- | 38 | --- |
| 805 | 7 miles east | 9, NE $\frac{1}{4}$ SE $\frac{1}{4}$ | do. | A. K. Price | Yoder | 1917 | --- | 70 |
| 806 | 8 $\frac{1}{2}$ miles southeast | 21, SW $\frac{1}{4}$ NW $\frac{1}{4}$ | E.L. & R.R.R.R., blk. R | A. B. Culp | A. B. Culp | 1937 | 183 | --- |
| 807 | 9 miles east | 21, NW $\frac{1}{4}$ NE $\frac{1}{4}$ | do. | do. | do. | 1935 | 89 | 12 |

| No. | Height of measuring point above ground (ft.) <u>s/</u> | Water Level | | Pump and power <u>b/</u> | Use of water <u>c/</u> | Remarks |
|-----|--|-----------------------------------|---------------------|--------------------------|------------------------|--|
| | | Depth below measuring point (ft.) | Date of measurement | | | |
| 725 | 0.5 | 84.2 | July 28, 1937 | C,W | D,S,I | Irrigates small garden. |
| 726 | 0.8 | 91.5 | Oct. 19, 1937 | C,W | D,S | Concrete curb. Measured while pumping. |
| 727 | 2 | 82.6 | July 29, 1937 | T,G, 50 | I | Reported yield, 800 gallons a minute. 180 feet 12 $\frac{1}{2}$ -inch steel casing, 157 feet 11 $\frac{1}{2}$ -inch steel casing. Pump set at 120 feet. |
| 728 | 0.8 | 81.1 | do. | C,W | D,S,I | Irrigates small garden. |
| 729 | 0.6 | 85.4 | Oct. 19, 1937 | None | N | Concrete curb. Formerly supplied school. |
| 730 | 0.5 | 90.4 | July 28, 1937 | C,W | D,S,I | Irrigates small garden. |
| 731 | -- | 100.5 | July 27, 1937 | C,W | D,I | Do. |
| 732 | -- | -- | -- | C,W | D,I | Do. |
| 733 | -- | -- | -- | None | N | Oil test. |
| 734 | -- | -- | -- | None | N | Oil test. See log. |
| 735 | -- | 110 | <u>d/</u> | C,W | D,I | Irrigates small garden. |
| 736 | 0.2 | 78.5 | July 27, 1937 | C,W | D,I | Do. |
| 737 | -- | 115 | <u>d/</u> | C,W | D,I | Do. |
| 739 | 1 | 104.5 | July 26, 1937 | None | N | Concrete curb. 170 feet steel casing. Formerly used as irrigation well. |
| 740 | 0.6 | 106.9 | do. | C,W | D,I | Irrigates small garden. |
| 741 | -- | 100 | <u>d/</u> | C,W | D,S,I | Do. |
| 749 | -- | -- | -- | C,W | D,P | |
| 801 | 0.2 | 60.5 | Oct. 9, 1937 | C,W | D,S,I | Irrigates small garden. Measured 3.65 feet drawdown after pumping 2 to 3 gallons a minute for $\frac{1}{2}$ hour. |
| 802 | 0.3 | 55.1 | do. | C,W | D,S,I | Irrigates small garden. Measured 1.34 feet drawdown after pumping about 2 gallons a minute for 2 hours. |
| 803 | 1.7 | 54.1 | do. | C,W | D,S,I | |
| 804 | 0.4 | 29.8 | do. | C,W | S | |
| 805 | 0.1 | -- | do. | C,W | D,S,I | Pumping level, 51.95 feet. Irrigates small garden. |
| 806 | 0.5 | 47.9 | Aug. 9, 1937 | T,G, -- | I | Reported yield, 650 gallons a minute. Irrigated 100 acres in 1937. Water reported in coarse white sand, 145 to 183 feet. Red water-sand reported above rock; rock, 91 to 103 feet. |
| 807 | 0.6 | 48.4 | Apr. 26, 1937 | T,G, 35 | I | Reported yield, 500 gallons a minute. Irrigated 88 acres in 1937. Water reported in red sand, 59 to 89 feet. Rock reported at 89 feet. |

Records of wells in Hale County—Continued

| No. | Distance from Hale Center | Section | Survey, Block | Owner | Driller | Date completed | Depth of well (ft.) | Diameter of well (in.) |
|-----|---------------------------|------------------|-----------------------------|------------------|---------------------|----------------|---------------------|------------------------|
| 808 | 8½ miles southeast | 20, NW cor. NW ¼ | E.L. & R.R. R.R., blk. R. | C. J. Robertson | C. H. Robertson | 1937 | 150 | 16 |
| 809 | 9 miles southeast | 20, SW cor. NW ¼ | do. | do. | Green Machinery Co. | 1934 | 165 | 16 |
| 810 | do. | 20, NW ¼ SW ¼ | do. | do. | do. | 1934 | 150 | 16 |
| 811 | do. | do. | do. | do. | do. | 1934 | 150 | 16 |
| 812 | do. | do. | do. | do. | C. H. Robertson | 1937 | 110 | 16 |
| 813 | do. | do. | do. | do. | do. | 1937 | 110 | 16 |
| 814 | 10 miles southeast | 17, NW ¼ NE ¼ | do. | do. | Green Machinery Co. | 1934 | 150 | 16 |
| 815 | 9½ miles southeast | 18, SE ¼ SE ¼ | do. | A. M. Eason | — | — | — | — |
| 816 | do. | do. | do. | do. | — | 1935 | 94 | 12 |
| 817 | 9 miles southeast | 18, SW cor. SW ¼ | do. | E. S. Eason | A. B. Culp | 1937 | 92 | 14 |
| 818 | 8½ miles southeast | 18, NW ¼ NW ¼ | do. | Guy Hausour | — | — | — | — |
| 819 | 8 miles southeast | 41, NW ¼ NW ¼ | E.L. & R.R. R.R., blk. A 4. | W. L. Landers | — | — | — | — |
| 820 | 7 miles southeast | 43, NW ¼ NW ¼ | do. | H. L. Gunter | — | — | — | — |
| 821 | 6½ miles southeast | 44, NE ¼ NW ¼ | do. | T. L. & D. Co. | — | Old | — | — |
| 822 | do. | 37, SW ¼ SW ¼ | do. | Elsie Thornton | — | Old | 61 | 6 |
| 823 | 5½ miles southeast | 28, SE ¼ NE ¼ | do. | M. B. Hawkins | — | — | — | — |
| 824 | 4¾ miles south | 29, SW ¼ NW ¼ | do. | J. Wells Kinkaid | — | — | — | — |
| 825 | 3¼ miles south | 18, NW ¼ NW ¼ | do. | Matilda Akeson | — | Old | 88 | 4½ |
| 826 | 3¾ miles south | 17, NE ¼ SW ¼ | do. | J. A. Foraker | — | 1925 | 55 | — |
| 827 | 5 miles south | 32, SE cor. SE ¼ | do. | Iowa Ave. School | — | — | 85 | 4 |
| 828 | do. | 33, NW ¼ NE ¼ | do. | G. W. Bigler | Geo. Garmes | 1936 | 218 | 14 |
| 829 | 5½ miles south | 33, SE ¼ NE ¼ | do. | do. | — | Old | 78 | — |
| 830 | do. | 34, NE ¼ SW ¼ | do. | W. S. Thompson | Luther Mounts | 1935 | 273 | 14 |
| 831 | 6½ miles southeast | 39, NW ¼ NW ¼ | do. | Hugh Tull, Sr. | — | 1937 | — | 16 |

a/ Measuring point was usually top of casing, pump base, pipe clamp, or well curb. Point was above ground unless below ground indicated by minus (-) sign.

b/ T, turbine; Cf, centrifugal; C, cylinder; E, electric; G, gasoline; O, diesel or oil; Ng, natural gas; W, windmill; H, hand; number indicates horsepower.

| No. | Height of measuring point above ground (ft.) a/ | Water Level | | Pump and power b/ | Use of water c/ | Remarks |
|-----|---|-----------------------------------|---------------------|-------------------|-----------------|--|
| | | Depth below measuring point (ft.) | Date of measurement | | | |
| 808 | 0 | 47. | Oct. 22, 1937 | None | N | Drilled for irrigation well; not tested. |
| 809 | — | 49 | d/ | T,G, 85 | I | Reported yield, 750 to 800 gallons a minute. Irrigated 130 acres in 1937. Pump set at 80 |
| 810 | 0.8 | 49.8 | Oct. 20, 1937 | None | N | Crooked hole. Unused well, 10 feet southeast. Pumping well, 125 feet north. |
| 811 | 0.3 | 49.4 | do. | None | N | |
| 812 | 0 | 47.3 | do. | None | N | Lost tools in hole; not completed. |
| 813 | 0 | 49.3 | do. | None | N | Not completed. |
| 814 | 0 | 54.8 | do. | None | N | Not tested. |
| 815 | 0.3 | 51.3 | May 7, 1936 | C,W | D,S | |
| 816 | 0 | 57.3 | Apr. 26, 1937 | None | N | Reported weak supply. |
| 817 | 1.5 | 57.9 | Oct. 20, 1937 | T,G, 20 | I | Reported yield, 550 to 600 gallons a minute. Irrigated 105 acres in 1937. Pump set at 80 feet. |
| 818 | 0.5 | 60.9 | Apr. 26, 1937 | C,W | D,S | |
| 819 | 0.3 | 65.9 | do. | C,W | D,S | |
| 820 | 1 | 63.4 | do. | C,W | D,S | |
| 821 | — | — | — | None | N | Insufficient water for irrigation. Hole filled. |
| 822 | 0.5 | 51.7 | Oct. 18, 1937 | None | N | |
| 823 | 0.3 | 66.3 | May 9, 1936 | C,W | D,S | |
| 824 | 0.5 | 64.6 | Apr. 26, 1937 | C,W | D,S | |
| 825 | 0.6 | 65.9 | July 16, 1937 | C,W | S | |
| 826 | 0.6 | 54.8 | July 26, 1937 | None | N | Tower standing; mill and pump removed. |
| 827 | 3 | 74.2 | do. | C,W | P | |
| 828 | — | 71 | d/ | T,G, 65 | I | Weak supply. Irrigated 80 acres in 1937. |
| 829 | 0.5 | 73.4 | July 27, 1937 | C,W | N | |
| 830 | — | 73 | d/ | T,G, 85 | I | Reported 7 feet drawdown after pumping 622 gallons a minute for 6 hours. Irrigated 121 acres in 1937. Well sands up readily. |
| 831 | — | — | — | None | N | Reported weak supply. |

c/ P, public; D, domestic; I, irrigation; S, stock; N, not used.
d/ Water level reported.

Records of wells in Hale County--Continued

| No. | Distance from Hale Center | Section | Survey, Block | Owner | Driller | Date completed | Depth of well (ft.) | Diameter of well (in.) |
|-----|----------------------------------|--|------------------------------|-----------------------------------|---------------------|----------------|---------------------|------------------------|
| 832 | 10 miles south | 70, NW $\frac{1}{2}$ NW $\frac{1}{4}$ | E.L.& R.R.R.R., blk. A 4' | Earlton Harp | Green Machinery Co. | 1936 | 233 | 18 |
| 833 | 9 $\frac{1}{2}$ miles south | 65, SE $\frac{1}{4}$ NE $\frac{1}{4}$ | do. | Elsie Thornton | --- | --- | 93 | 4 $\frac{1}{2}$ |
| 834 | 8 $\frac{1}{2}$ miles south | 64, NE $\frac{1}{4}$ SE $\frac{1}{4}$ | do. | M. E. Kesler | --- | --- | 89 | 6 |
| 835 | 8 miles south | 50, SE $\frac{1}{4}$ SW $\frac{1}{4}$ | do. | S. E. Wallace | --- | Old | 67 | 6 |
| 836 | do. | 61, NE $\frac{1}{4}$ NW $\frac{1}{4}$ | do. | R. B. C. Howell, Jr. | --- | --- | --- | --- |
| 837 | 8 miles southeast | 54, NW $\frac{1}{2}$ NW $\frac{1}{4}$ | do. | F. L. Hunsicker | --- | --- | --- | --- |
| 838 | 10 $\frac{1}{2}$ miles southeast | 13, SE $\frac{1}{4}$ NW $\frac{1}{4}$ | E.L.& R.R.R.R., blk. R; | J. W. Heard | --- | 1934 | 231 | 16 |
| 839 | 11 $\frac{1}{2}$ miles southeast | 13, NE $\frac{1}{4}$ SE $\frac{1}{4}$ | do. | do. | --- | 1934 | 202 | 16 |
| 840 | 12 miles southeast | 12, NE $\frac{1}{4}$ SE $\frac{1}{4}$ | do. | Neff McLaughlin | --- | 1934 | 185 | --- |
| 841 | 11 $\frac{1}{2}$ miles southeast | 12, NW $\frac{1}{4}$ SW $\frac{1}{4}$ | do. | do. | --- | 1935 | 160 | --- |
| 842 | 12 miles southeast | 43, SW $\frac{1}{4}$ NW $\frac{1}{4}$ | do. | B. E. Eberstone | --- | 1937 | 175 | --- |
| 843 | 13 miles southeast | 43, NW $\frac{1}{4}$ SE $\frac{1}{4}$ | do. | do. | --- | --- | --- | --- |
| 844 | do. | 6, NW $\frac{1}{4}$ SW $\frac{1}{4}$ | E.L.& R.R.R.R., blk. C L | Sam Hunt | Green Machinery Co. | 1937 | 200 | 18 |
| 845 | 12 $\frac{1}{2}$ miles southeast | 14, NW $\frac{1}{4}$ NE $\frac{1}{4}$ | E.L.& R.R.R.R., blk. D 8' | J. A. Lutrick | Floyd Ragen | 1936 | 200 | 15 |
| 846 | 11 miles south | 9, SW cor. SW $\frac{1}{4}$ | do. | Mrs. Eva Perry | --- | --- | 94 | --- |
| 847 | 12 miles south | 73, SW $\frac{1}{4}$ NW $\frac{1}{4}$ | E.L.& R.R.R.R., blk. A 4' | Mrs. Ella M. Kammerer | J. C. Cook | 1936 | 212 | 15 |
| 848 | 12 $\frac{1}{2}$ miles south | 75, SE $\frac{1}{4}$ NE $\frac{1}{4}$ | do. | Mrs. J. E. Chiney | --- | Old | 106 | --- |
| 849 | 13 miles south | 9, NW $\frac{1}{4}$ NE $\frac{1}{4}$ | blk. C 2 | Texas-New Mexico Utilities Co. | D. L. McDonald | 1930 | 267 | 18 |
| 850 | do. | do. | do. | do. | do. | 1930 | 182 | 18 |
| 852 | 15 miles south | 2, SW $\frac{1}{4}$ SE $\frac{1}{4}$ | blk. X | Abernathy Cemetery | --- | --- | 123 | --- |
| 853 | 15 $\frac{1}{2}$ miles south | 7, SW $\frac{1}{4}$ SE $\frac{1}{4}$ | do. | R. M. Hardesty | --- Asher | 1934 | 200 | 14 |
| 854 | 16 miles south | 2, NE $\frac{1}{4}$ NW $\frac{1}{4}$ | blk. P F | B. F. & F. W. Struve | Buck Patton | 1934 | 465 | 18 |

| No. | Height of measuring point above ground (ft.) a/ | Water Level | | Pump and power b/ | Use of water c/ | Remarks |
|-----|---|-----------------------------------|---------------------|-------------------|-----------------|--|
| | | Depth below measuring point (ft.) | Date of measurement | | | |
| 832 | — | 87 | d/ | T,G, 50 | I | Irrigated 320 acres in 1937. 18- and 16-inch steel casing, 0 to 187 feet, perforated from 63 to 187 feet. |
| 833 | 0.6 | 84.1 | June 16, 1937 | C,W | D,S | Unused in 1937. |
| 834 | 0.6 | 77.2 | do. | C,H | D,S | |
| 835 | 0.2 | 59.6 | July 27, 1937 | None | N | Abandoned stock well. |
| 836 | 0.8 | 64.9 | May 11, 1936 | C,W | D,S | |
| 837 | 1 | 65 | May 9, 1936 | C,W | D,S | |
| 838 | 0.5 | 60.3 | Oct. 21, 1937 | T,G, 27 | I | Reported yield, 500 gallons a minute. No casing in top and bottom; 16-inch steel perforated casing, 60 to 108 feet. 2-stage 12- |
| 839 | 3.5 | 63.4 | do. | — | I | Irrigated 400 acres, with wells 838 and 839 in 1937. No casing in top and bottom; 16-inch steel perforated casing, 60 to 108 feet. 2-stage 12- |
| 840 | 0.8 | 61.2 | do. | T,G, 27 | I | Reported yield, 800 gallons a minute. Irrigated 320 acres, with well 841 in 1937. |
| 841 | 1.5 | 56.4 | do. | T,G, 27 | I | Reported yield, 700 gallons a minute. 2-stage pump set at 80 feet. |
| 842 | 1.5 | 58.6 | do. | T,G, 85 | I | Reported yield, 900 gallons a minute. Irrigated 100 acres in 1937. |
| 843 | 0 | 59.3 | do. | None | N | Reported yield, 50 gallons a minute. Yellow and blue clay found in this well. |
| 844 | 0.3 | 66.1 | Sept. 10, 1937 | T,G, 85 | I | Irrigated 276 acres in 1937. 18- and 14-inch steel casing, 0 to 138 feet. |
| 845 | 1.5 | 83.5 | Oct. 18, 1937 | T,G, 60 | I | Reported drawdown, 36 feet after pumping 1,100 gallons a minute for 5 minutes. Irrigated 240 acres in 1937. 15- and 11-inch steel casing, 0 to 200 feet. Water sand, 87 to 98 feet; clay 98 to 105 feet; water sand 105 to 200 feet. |
| 846 | 0.5 | 83.5 | do. | C,W | S | At edge of "dry lake." |
| 847 | 2 | 90.6 | do. | T,G, — | I | Reported drawdown, 40 feet after pumping 800 gallons a minute for 24 hours. Irrigated 75 acres in 1937. 15- and 12-inch steel casing, 0 to 200 feet; perforated from 90 to 200 feet. 4-stage pump set at 130 feet. |
| 848 | 0.5 | 96.5 | July 27, 1937 | C,W | S | Drawdown, 1.2 feet after pumping 3 gallons a minute for 10 hours. |
| 849 | — | 95 | d/ | T,E, 40 | Ind | 18- and 13 $\frac{3}{4}$ -inch steel casing, 0 to 267 feet. Located 200 feet southwest of power plant. |
| 850 | — | 93 | d/ | T,E, 40 | Ind | 18- and 13 $\frac{3}{4}$ -inch steel casing, 0 to 182 feet. Located 100 feet northwest of power plant. |
| 852 | 0 | 117.9 | July 27, 1937 | C,W | P | |
| 853 | — | 115 | d/ | T,Ng, 60 | I | Irrigated 145 acres in 1937. 14-inch steel casing, 0 to 140 feet; 10-inch steel casing, 140 to 167 feet. 3-stage pump set at 130 feet; 26 feet of suction pipe. |
| 854 | — | 96 | d/ | T,G, 40 | I | Irrigated 120 acres in 1937. 15- and 12-inch steel casing. |

Records of wells in Hale County--Continued

| No. | Distance from Hale Center | Section | Survey, Block | Owner | Driller | Date completed | Depth of well (ft.) | Diameter of well (in.) |
|-----|---------------------------|------------|--------------------------------|--------------------|---------------------|----------------|---------------------|------------------------|
| 855 | 17 miles south | 5, cen. | blk. P F | W. A. Waters | -- McDaniels | 1937 | 210 | 18 |
| 856 | 13½ miles south | 17, SW¼NW¼ | E.L.& R.R.R.R., blk. D 8; | T. E. Lutrick | -- Tarkington | 1936 | 200 | 15 |
| 857 | 14 miles south | 17, SW¼SE¼ | do. | do. | -- Regan | 1937 | 200 | 12 |
| 858 | 14½ miles southeast | 22, SW¼NW¼ | E.L.& R.R.R.R., blk. C L, | N. Mathews | N. Mathews | 1937 | 200 | 18 |
| 859 | 15½ miles south | 22, SE¼SE¼ | do. | L. Ragland | Sam Young | 1937 | 200 | 15½ |
| 860 | 10½ miles south | 2, SW¼SE¼ | E.L.& R.R.R.R., blk. D 8 | J. H. Reed | -- | 1907 | 90 | -- |
| 861 | 11½ miles south | 12, NE¼NE¼ | do. | H. C. Tucker | -- | -- | 120 | -- |
| 862 | do. | 71, SE¼NE¼ | E.L.& R.R.R.R., blk. A 4. | Mrs. S. R. Merrill | -- | -- | 95 | 6 |
| 901 | 9½ miles east | 28, SW¼NE¼ | D. & P. R. R., blk. D 7; | Virgil Young | Virgil Young | 1937 | 137 | 20 |
| 902 | 10 miles east | 28, NE¼SE¼ | do. | -- | -- | -- | -- | -- |
| 905 | 13 miles east | 59, NW¼SW¼ | E.L.& R.R.R.R., blk. R' | R. C. Reagan | -- | 1937 | -- | -- |
| 906 | 14 miles east | 59, SW¼SE¼ | do. | Floyd Reagan | -- | -- | -- | 18 |
| 907 | 14½ miles east | NW¼ | Wm. Bracken | L. G. Guthrie | Floyd Reagan | 1937 | 257 | -- |
| 908 | 15 miles east | NW¼NW¼ | H. L. Gunter Callahan C.S.L. | Homer Miller | do. | 1936 | 217 | 15 |
| 909 | do. | SW¼ | O. B. Jackson Callahan C.S.L. | C. J. Barnard | -- | Old | 188 | -- |
| 910 | do. | SE¼NW¼ | J.N.McWilliams Callahan C.S.L. | J. N. McWilliams | McDaniels & Elliott | 1937 | 300 | 16 |
| 911 | 15½ miles east | NW¼NE¼ | C. Applewhite Callahan C.S.L. | Clyde Applewhite | D. L. Handley | 1935 | 273 | 16 |
| 912 | 16 miles east | SW¼NE¼ | J.N.McWilliams Callahan C.S.L. | J. N. McWilliams | -- | -- | -- | -- |
| 913 | do. | cen. SE¼ | J.R. Patterson Callahan C.S.L. | White & Casebolt | -- Casebolt | 1937 | 305 | 15 |
| 914 | do. | SE¼SE¼ | Geo.Meriwether Callahan C.S.L. | Geo. Meriwether | -- | 1937 | 300 | 15 |
| 915 | 15 miles east | NW¼ | H. Phillips Callahan C.S.L. | L. R. Taylor | Floyd Reagan | -- | -- | -- |
| 916 | do. | NW¼SW¼ | Lge. 3, Callahan C.S.L. | G. G. Komp | -- | 1936 | 235 | -- |
| 917 | 13½ miles east | 60, SW¼SW¼ | E.L.& R.R.R.R., blk. R; | W. H. McDuffee | Floyd Reagan | 1936 | 251 | 14 |

| No. | Height of measuring point above ground (ft.) <u>a/</u> | Water Level | | Pump and power <u>b/</u> | Use of water <u>c/</u> | Remarks |
|-----|--|-----------------------------------|---------------------|--------------------------|------------------------|--|
| | | Depth below measuring point (ft.) | Date of measurement | | | |
| 855 | 1 | 100.7 | July 23, 1937 | T, G, 85 | I | Reported yield, 450 gallons a minute. Irrigated 100 acres in 1937. 18-inch steel casing, 0 to 150 feet; 12-inch steel casing, |
| 856 | — | — | — | T, G, 20 | I | Reported 35 feet draw— 150 to 210 feet. down after pumping about 400 gallons a minute for $\frac{1}{4}$ hour. Irrigated 77 acres in 1937. 200 feet steel casing. Pump set at 120 feet. |
| 857 | — | 80 | <u>d/</u> | T, G, 40 | I | Estimated yield, 750 to 800 gallons a minute. Irrigated 185 acres in 1937. |
| 858 | — | 73 | <u>d/</u> | T, G, 50 | I | Located on east side of basin. Irrigated 185 acres in 1937. |
| 859 | 1 | 76.2 | Sept. 15, 1937 | T, G, 85 | I | Irrigated 120 acres in 1937. 15 $\frac{1}{2}$ -inch steel casing, 0 to 80 feet; 13-inch steel casing, 80 to 120 feet. Pump set at 120 feet. |
| 860 | — | 80 | <u>d/</u> | C, W | D, S, I | Irrigates small garden. |
| 861 | 0.4 | 88.6 | Nov. 5, 1937 | C, W | D, S | |
| 862 | 0.1 | 85.2 | do. | C, W | D, S | Galvanized casing, top to bottom. |
| 901 | — | 45 | <u>d/</u> | T, G, — | I | Reported 67 feet drawdown pumping 750 gallons a minute. Irrigated 207 acres in 1937. 150 feet steel casing. Pump set at 80 feet. |
| 902 | 0.3 | 44.2 | May 5, 1936 | — | D | |
| 905 | — | — | — | None | N | Well not completed, June, 1937. |
| 906 | 0 | 42.8 | June 3, 1937 | T, G, — | I | Irrigated 150 acres in 1937. |
| 907 | — | — | — | T, G, 85 | I | Irrigated 200 acres in 1937. |
| 908 | — | 34 | <u>d/</u> | T, G, — | I | Reported yield, 700 to 800 gallons a minute. Irrigated 400 acres in 1937. Water sand reported 130 to 217 feet. 217 feet steel casing. |
| 909 | — | — | — | T, G, — | I | Irrigated 200 acres in 1937. Pump set <u>ing.</u> at 72 feet. See log. |
| 910 | — | 32 | <u>d/</u> | T, G, — | I | Reported yield, 750 gallons a minute. Irrigated 237 acres in 1937. 200 feet steel casing. Water reported in coarse sand at 170 |
| 911 | — | 32 | <u>d/</u> | T, G, 36 | I | Irrigated 300 acres in 1937. <u>to 188 feet.</u> 270 feet steel casing. Pump set at 84 feet. |
| 912 | 0 | 27 | Apr. 27, 1936 | — | D, S | <u>See log.</u> |
| 913 | 1.2 | 35.7 | Oct. 22, 1937 | T, G, — | I | Reported yield, 1,000 gallons a minute. 200 feet steel casing. |
| 914 | — | — | — | T, G, 85 | I | Reported yield, 900 gallons a minute. Irrigated 225 acres in 1937. 200 feet steel casing. |
| 915 | — | — | — | T, G, — | I | <u>ing.</u> Pump set at 90 feet. |
| 916 | 0.5 | 40 | May 5, 1936 | T, G, — | I | Reported yield, 800 gallons a minute. Irrigated 150 acres in 1937. |
| 917 | — | 40 | <u>d/</u> | T, G, 85 | I | Reported yield, 850 gallons a minute. Irrigated 175 acres in 1937. 251 feet steel casing. |

Records of wells in Hale County--Continued

| No. | Distance from Hale Center | Section | Survey, Block | Owner | Driller | Date completed | Depth of well (ft.) | Diameter of well (in.) |
|-----|----------------------------------|--|----------------------------|------------------------------|------------------|----------------|---------------------|------------------------|
| 918 | 13 $\frac{1}{2}$ miles east | 58, NW $\frac{1}{4}$ SW $\frac{1}{4}$ | E.L.& R.R.R.R., blk. R | G. G. Kemp | Frank Lard | 1937 | 222 | -- |
| 919 | do. | 58, SW $\frac{1}{4}$ NW $\frac{1}{4}$ | do. | do. | -- Young | 1937 | 200 | -- |
| 920 | 11 $\frac{1}{2}$ miles east | 27, NE $\frac{1}{4}$ SE $\frac{1}{4}$ | do. | T. L. & D. Co. | -- | -- | -- | -- |
| 921 | 10 $\frac{1}{2}$ miles east | 27, NW $\frac{1}{4}$ NW $\frac{1}{4}$ | do. | Chas. Wondt | -- | -- | -- | -- |
| 922 | 9 $\frac{1}{2}$ miles east | 29, SW $\frac{1}{4}$ SE $\frac{1}{4}$ | D. & P. R. R., blk. D 7 | C. W. Richardson | -- | -- | -- | -- |
| 923 | do. | 28, NW $\frac{1}{4}$ NW $\frac{1}{4}$ | E.L.& R.R.R.R., blk. R | D. C. Bayley | -- | -- | -- | 10 |
| 924 | 10 miles southeast | 5, SW $\frac{1}{4}$ NW $\frac{1}{4}$ | do. | A. J. Harmel | Jim Fox | 1937 | 198 | 16 |
| 925 | 10 $\frac{1}{2}$ miles southeast | 5, SE $\frac{1}{4}$ SW $\frac{1}{4}$ | do. | do. | Sam Young | 1937 | 186 | 16 |
| 926 | 11 miles southeast | 3, SE $\frac{1}{4}$ SE $\frac{1}{4}$ | do | A. H. Boyd | C. E. Davis | 1936 | 181 | 14 |
| 927 | 12 miles southeast | 2, NE $\frac{1}{4}$ NW $\frac{1}{4}$ | do. | Dallas Joint Stock Land Bank | -- | -- | -- | -- |
| 929 | 12 $\frac{1}{2}$ miles southeast | 36, NW $\frac{1}{4}$ NE $\frac{1}{4}$ | do. | J. A. Line | -- | -- | -- | -- |
| 930 | do. | 36, NE $\frac{1}{4}$ SE $\frac{1}{4}$ | do. | do. | -- | -- | -- | -- |
| 931 | 13 miles southeast | 35, NE $\frac{1}{4}$ NW $\frac{1}{4}$ | do. | S. J. Young | S. J. & M. Young | 1937 | 153 | 16 |
| 932 | do. | do. | do. | do. | do. | 1937 | 150 | -- |
| 933 | do. | 35, SW $\frac{1}{4}$ NW $\frac{1}{4}$ | do. | do. | do. | 1937 | 156 | -- |
| 934 | 13 $\frac{1}{2}$ miles southeast | 35, NE $\frac{1}{4}$ SW $\frac{1}{4}$ | do. | do. | do. | 1937 | 160 | -- |
| 935 | 14 miles southeast | 35, SE $\frac{1}{4}$ SE $\frac{1}{4}$ | do. | do. | do. | 1937 | 200 | 16 |

| No. | Height of measuring point above ground (ft.) a/ | Water Level | | Pump and power b/ | Use of water c/ | Remarks |
|-----|---|-----------------------------------|---------------------|-------------------|-----------------|--|
| | | Depth below measuring point (ft.) | Date of measurement | | | |
| 918 | 3.8 | 39.8 | Oct. 22, 1937 | T,G, 85 | I | Reported yield, 700 gallons a minute. Irrigated 30 acres in 1937. 20 feet steel casing at top. Pump set at 110 feet. Water reported in red sand, 206 to 212 feet. |
| 919 | — | 35 | d/ | None | N | |
| 920 | 0.8 | 45.2 | May 6, 1936 | C,W | D,S | |
| 921 | 0.5 | 53.3 | do. | C,W | D,S | Located on east edge of draw. |
| 922 | 0.3 | 41 | do. | C,W | D,S | |
| 923 | 5 | 55.1 | Aug. 9, 1937 | None | N | Abandoned irrigation well. |
| 924 | — | 60 | d/ | None | N | Unused irrigation well. Reported yield, 450 gallons a minute. Red sand, 90 to 100 feet, blue soapy clay at 150 feet. "Red Beds" at 198 feet. Reported water below 100 |
| 925 | — | 60 | d/ | T,G, 85 | I | Reported yield, 450 gallons a minute. <u>feet.</u> Irrigated 60 acres in 1937. 120 feet of perforated steel casing from 60 to 180 feet. 2-stage pump set at 100 feet; 70 feet of suction. Red water sand 80 to 100 feet. Reported no water below 100 feet. |
| 926 | 1.2 | 55.2 | Oct. 21, 1937 | T,G, 85 | I | Reported yield, 850 gallons a minute. Irrigated 225 acres in 1937. 103 feet of steel casing at top of well. 3-stage pump set at 100 feet; 50 feet of suction pipe. Red sand, 90 to 100 feet. Blue clay at 181 feet. |
| 927 | 0.5 | 52.3 | May 8, 1936 | C,W | D,S | |
| 929 | 0 | 39.5 | May 7, 1936 | None | N | Not used in 1937. |
| 930 | — | — | — | T,G, — | I | Estimated irrigated 155 acres in 1937. |
| 931 | 1 | 43.9 | Oct. 25, 1937 | T,G, 85 | I | Reported yield, 1,200 gallons a minute. Irrigated 275 acres in 1937. 60 feet of steel casing, 28 to 88 feet. 2-stage pump set at 100 feet; 46 feet of suction pipe. Water sands at 76 to 88, 112 to 123, and 147 to 153 feet. "Red Beds" at 153 feet. |
| 932 | — | — | — | None | N | "Red Beds" at 149 feet. |
| 933 | — | 51 | d/ | T,G, 85 | I | Reported yield, 1,200 gallons a minute. Irrigated 100 acres in 1937. No casing. 2-stage pump set at 90 feet; 50 feet of suction pipe. White sand, 150 to 153 feet. "Red |
| 934 | — | — | — | None | N | Well not tested. Red <u>Beds" at 153 feet.</u> sand 42 to 54 feet. Rock 90 to 134 feet. |
| 935 | 0.9 | 46.4 | Oct. 25, 1937 | T,G, 85 | I | Reported yield, 950 <u>"Red Beds" at 152 feet.</u> gallons a minute. Irrigated 182 acres in 1937. 42 feet of steel casing from 60 to 102 feet. 2-stage pump set at 100 feet; 36 feet of suction pipe. "Red Beds" at 160 feet. |

Records of wells in Hale County--Continued

| No. | Distance from Hale Center | Section | Survey, Block | Owner | Driller | Date completed | Depth of well (ft.) | Diameter of well (in.) |
|-----|----------------------------------|---------------------------------------|--------------------------|-----------------|---------------------|----------------|---------------------|------------------------|
| 936 | 14 miles southeast | NW cor. NW $\frac{1}{4}$ | C. K. Andrews sur. | B. E. Porter | -- | -- | -- | 4 $\frac{1}{2}$ |
| 937 | do. | 57, SW $\frac{1}{4}$ SW $\frac{1}{4}$ | E.L. & R.R.R.R., blk. R | Marvin Young | Marvin Young | 1937 | 163 | -- |
| 938 | do. | do. | do. | do. | do. | 1937 | 167 | -- |
| 939 | do. | 57, NE $\frac{1}{4}$ SW $\frac{1}{4}$ | do. | do. | do. | 1937 | 160 | -- |
| 940 | 14 $\frac{1}{2}$ miles southeast | do. | do. | do. | do. | 1937 | 150 | -- |
| 941 | 15 miles east | 7, SW $\frac{1}{4}$ SW $\frac{1}{4}$ | blk. L | Geo. Meriwether | -- | 1936 | 225 | 15 |
| 942 | 17 miles east | 3, NW $\frac{1}{4}$ NW $\frac{1}{4}$ | blk. K | C. J. Barnard | Tye Bros. | 1934 | 307 | 16 |
| 943 | 17 $\frac{1}{2}$ miles southeast | 3, SW $\frac{1}{4}$ SW $\frac{1}{4}$ | do. | do. | Green Machinery Co. | 1937 | 330 | 16 |
| 944 | 17 miles southeast | 2, SW $\frac{1}{4}$ NW $\frac{1}{4}$ | do. | E. H. Curtis | Floyd Reagan | 1936 | 338 | 15 |
| 945 | 16 miles southeast | 56, NW $\frac{1}{4}$ SE $\frac{1}{4}$ | E.L. & R.R.R.R., blk. R. | W. T. Harlan | do. | 1937 | 270 | 15 $\frac{1}{2}$ |
| 946 | 14 $\frac{1}{2}$ miles southeast | SW $\frac{1}{4}$ SW $\frac{1}{4}$ | C. K. Andrews | -- Porter | -- | 1937 | 300 | -- |
| 947 | 15 $\frac{1}{2}$ miles southeast | 54, SE $\frac{1}{4}$ SW $\frac{1}{4}$ | E.L. & R.R.R.R., blk. R. | S. J. Upton | -- | Old | 72 | -- |
| 948 | 14 $\frac{1}{2}$ miles southeast | 39, NW $\frac{1}{4}$ SE $\frac{1}{4}$ | do. | E. N. Stephens | Floyd Reagan | 1937 | -- | -- |
| 949 | do. | 39, SE $\frac{1}{4}$ SW $\frac{1}{4}$ | do. | -- Faulkner | -- | -- | 71 | -- |
| 950 | 13 $\frac{1}{2}$ miles southeast | 38, SW $\frac{1}{4}$ SW $\frac{1}{4}$ | do. | John Bell | Floyd Reagan | 1937 | 280 | 16 |
| 951 | do. | 37, SE $\frac{1}{4}$ NE $\frac{1}{4}$ | do. | J. C. Fuller | -- | 1916 | -- | -- |
| 952 | 13 miles southeast | 40, NW $\frac{1}{4}$ SW $\frac{1}{4}$ | do. | A. B. Martin | Green Machinery Co. | 1937 | 160 | -- |
| 953 | 12 $\frac{1}{2}$ miles southeast | 8, NW $\frac{1}{4}$ NE $\frac{1}{4}$ | do. | do. | -- Tye | 1934 | 260 | -- |
| 954 | 12 miles southeast | 8, SW $\frac{1}{4}$ NW $\frac{1}{4}$ | do. | do. | Green Machinery Co. | 1935 | 260 | -- |
| 955 | 11 $\frac{1}{2}$ miles southeast | 7, NE $\frac{1}{4}$ NW $\frac{1}{4}$ | do. | J. W. Heard | -- | 1936 | 165 | -- |
| 956 | do. | 7, SW $\frac{1}{4}$ NW $\frac{1}{4}$ | do. | do. | -- | 1934 | 200 | -- |

| No. | Height of measuring point above ground (ft.) a/ | Water Level | | Pump and power b/ | Use of water c/ | Remarks |
|-----|---|-----------------------------------|---------------------|-------------------|-----------------|---|
| | | Depth below measuring point (ft.) | Date of measurement | | | |
| 936 | 0 | 43.2 | May 7, 1936 | C,W | S | |
| 937 | -- | -- | -- | None | N | Well not tested. Reported weak supply. "Red Beds" at 160 feet. |
| 938 | 1 | 44.7 | Oct. 25, 1937 | None | N | Reported yield, 450 gallons a minute. "Red Beds" at 133 feet. |
| 939 | -- | -- | -- | None | N | Well not tested. Reported weak supply. |
| 940 | -- | -- | -- | None | N | Well not tested. |
| 941 | -- | 28 | d/ | T,G, 85 | I | Reported yield, 1,000 gallons a minute. Irrigated 225 acres in 1937. 225 feet of 15- and 13-inch steel casing. 2-stage pump set at 90 feet; 10 feet of suction pipe. "Red |
| 942 | -- | -- | -- | T,G, 85 | I | Reported yield, 850 gallons a minute. Irrigated 343 acres in 1937. 2-stage pump set at 84 feet; 20 feet of suction pipe. "Red Beds" at 130 feet. |
| 943 | -- | -- | -- | T,G, 85 | I | Reported yield, 1,000 gallons a minute. Irrigated 20 acres in 1937. 330 feet of 16- and 14-inch steel casing. 2-stage pump set at 96 feet; 20 feet of suction pipe. |
| 944 | -- | 67 | d/ | T,G, 50 | I | Reported yield, 800 gallons a minute with 60 feet drawdown. Irrigated 122 acres in 1937. 338 feet steel casing, 15- and 8-inch. |
| 945 | 2.1 | 61.9 | Oct. 22, 1937 | T,G, 85 | I | in 1937. 250 feet steel casing, 15 $\frac{1}{2}$ - and 13 $\frac{1}{2}$ -inch. Pump set at 140 feet; 10 feet of suction pipe. "Red Beds" at 255 feet. |
| 946 | 1.7 | 56.5 | do. | T,G, -- | I | Reported weak supply. |
| 947 | 0.1 | 60.7 | July 19, 1937 | None | N | |
| 948 | 2 | 62.7 | Oct. 22, 1937 | T,G, -- | I | 3-stage pump set at 110 feet; 9-inch column pipe; 26 feet of suction pipe. Not used in |
| 949 | 0.1 | 52.5 | May 8, 1936 | C,W | D,S | 1937. |
| 950 | -- | -- | -- | T,G, -- | I | Reported yield, 750 gallons a minute. Irrigated 285 acres in 1937. 280 feet of steel casing. Pump set at 120 feet; 30 feet of suction pipe. Reported weak supply. |
| 951 | 0.3 | 49.7 | May 8, 1936 | C,W | D,S | |
| 952 | -- | 60 | d/ | T,G, 85 | I | Reported yield, 1,000 gallons a minute. Irrigated 60 acres in 1937. |
| 953 | -- | 60 | d/ | T,G, 85 | I | Reported yield, 750 gallons a minute. Irrigated 425 acres in 1937. |
| 954 | 1 | 62.2 | Oct. 22, 1937 | T,G, 85 | I | Pump set at 84 feet. Measured drawdown, 20.5 feet pumping 755 gallons a minute, by Resettlement Administration. See log. |
| 955 | 1.2 | 65.6 | Oct. 21, 1937 | T,G, 85 | I | Reported yield, 800 gallons a minute. 72 feet casing, 65 to 137 feet. |
| 956 | 1 | 66.6 | do. | T,G, -- | I | Reported yield, 600 gallons a minute. 40 feet casing, 65 to 105 feet. |

Records of wells in Hale County--Continued

| No. | Distance from Hale Center | Section | Survey, Block | Owner | Driller | Date completed | Depth of well (ft.) | Diameter of well (in.) |
|-----|----------------------------------|---------------------------------------|--------------------------|-------------------------|---------------------|----------------|---------------------|------------------------|
| 957 | 12 miles southeast | 7, SE $\frac{1}{4}$ SW $\frac{1}{4}$ | E.L.& R.R.R.R., blk. R. | Wells O'Neal | -- | Old | -- | -- |
| 958 | do. | 9, SW $\frac{1}{4}$ NW $\frac{1}{4}$ | do. | W. C. Sewell | A. B. Culp | 1936 | 108 | 15 |
| 959 | 13 miles southeast | 10, SW $\frac{1}{4}$ NW $\frac{1}{4}$ | do. | Pete McLaughlin | -- | 1935 | 145 | -- |
| 960 | 13 $\frac{1}{2}$ miles southeast | 10, SW $\frac{1}{4}$ NE $\frac{1}{4}$ | do. | do. | -- | 1937 | 143 | -- |
| 961 | 14 miles southeast | 41, SW $\frac{1}{4}$ NE $\frac{1}{4}$ | do. | R. E. Wilson | H. L. Bartlett | 1937 | 210 | 15 $\frac{1}{2}$ |
| 962 | 17 $\frac{1}{2}$ miles southeast | 51, NE $\frac{1}{4}$ NE $\frac{1}{4}$ | do. | T. B. Haynes | -- | 1937 | -- | -- |
| 963 | 18 miles southeast | 14, NW cor. NE $\frac{1}{4}$ | blk. K | Mrs. J. F. Beard | W. Tarkington | 1936 | 185 | 18 |
| 964 | 19 miles southeast | 16, NW $\frac{1}{4}$ NW $\frac{1}{4}$ | do. | M. Carr | do. | 1937 | 339 | 15 $\frac{1}{2}$ |
| 965 | 19 $\frac{1}{2}$ miles southeast | 20, NW $\frac{1}{4}$ NE $\frac{1}{4}$ | do. | Mrs. W. M. Featherstone | Bradford Supply Co. | 1937 | 199 | 15 $\frac{1}{2}$ |
| 966 | 20 miles southeast | 18, NW $\frac{1}{4}$ NW $\frac{1}{4}$ | do. | E. M. Carmickle | W. Tarkington | 1936 | 175 | 15 |
| 967 | 20 $\frac{1}{2}$ miles southeast | 18, NW $\frac{1}{4}$ SW $\frac{1}{4}$ | do. | Bob Mayo | do. | 1936 | 179 | 17 |
| 969 | 19 $\frac{1}{2}$ miles southeast | 6, SW $\frac{1}{4}$ NW $\frac{1}{4}$ | blk. L | B. A. Jeffries | Jack Brannon | -- | 180 | 15 |
| 970 | 18 $\frac{1}{2}$ miles southeast | 15, NE $\frac{1}{4}$ SE $\frac{1}{4}$ | E.L.& R.R.R.R., blk. C L | W. D. Scarborough | -- Whitfield | 1936 | 179 | 15 |
| 971 | 17 $\frac{1}{2}$ miles southeast | 15, NW $\frac{1}{4}$ NW $\frac{1}{4}$ | do. | L. S. Claitor | -- Tarkington | 1936 | 240 | 13 |
| 972 | 16 $\frac{1}{2}$ miles southeast | 13, NW $\frac{1}{4}$ NE $\frac{1}{4}$ | do. | V. T. Hildreth | V. T. Hildreth | 1937 | 280 | 15 |
| 973 | do. | 20, SW $\frac{1}{4}$ SE $\frac{1}{4}$ | do. | Glenn Gamble | -- McDaniels | 1937 | 200 | 15 |
| 974 | 17 $\frac{1}{2}$ miles southeast | -- | J. A. Alexander, blk. S | W. J. Pierson | W. H. Sawyer | 1937 | 228 | 18 |
| 975 | 17 miles southeast | 2, NE $\frac{1}{4}$ NE $\frac{1}{4}$ | blk. C 2 | W. A. Mahagan | Buck Patton | 1937 | 224 | 15 |
| 976 | 18 miles southeast | 2, SE $\frac{1}{4}$ SE $\frac{1}{4}$ | do. | W. I. Pierson | W. H. Sawyer | 1937 | 216 | 14 |
| 977 | do. | 1, NE $\frac{1}{4}$ | Homestead | H. S. Leon | -- McDaniels | 1937 | 211 | 16 |

| No. | Height of measuring point above ground (ft.) a/ | Water Level | | Pump and power b/ | Use of water c/ | Remarks |
|-----|---|-----------------------------------|---------------------|-------------------|-----------------|---|
| | | Depth below measuring point (ft.) | Date of measurement | | | |
| 957 | 0 | 55.3 | May 7, 1936 | C,W | N | |
| 958 | 1 | 60.3 | do. | T,G, -- | I | Reported yield, 600 gallons a minute. Irrigated 108 acres in 1937. No casing. Pump set at 90 feet; 10 feet of suction pipe. |
| 959 | 1.3 | 61.1 | Oct. 21, 1937 | T,G, 85 | I | Reported yield, 900 gallons a minute. Irrigated 400 acres in 1937. 48 feet casing, |
| 960 | 1.5 | 62 | do. | T,G, 85 | I | Reported yield, 900 gallons a minute. 60 to 108 feet. 72 feet of steel casing. |
| 961 | 1.5 | 58.9 | do. | T,G, 85 | I | Reported yield, 1,000 gallons a minute. Irrigated 305 acres in 1937. 80 feet of 15 $\frac{1}{2}$ -inch, 40 feet of 14-inch, and 65 feet of 11 $\frac{1}{2}$ -inch perforated steel casing. 2-stage, 12-inch pump set at 91 feet; 31 feet of suction pipe. "Red Beds" at 210 feet. |
| 962 | -- | -- | -- | -- | I | |
| 963 | -- | -- | -- | T,G, -- | I | Reported yield, 800 gallons a minute. Irrigated 274 acres in 1937. |
| 964 | -- | 61 | d/ | T,G, -- | I | Reported yield, 800 gallons a minute. Irrigated 190 acres in 1937. 215 feet steel casing. 3-stage pump set at 120 feet; 169 |
| 965 | -- | -- | -- | T,G, 85 | I | Irrigated 270 acres in 1937. 140 feet of 15 $\frac{1}{2}$ -inch, 60 feet 13 $\frac{1}{2}$ - |
| 966 | -- | 65 | d/ | T,G, 85 | I | Reported yield, 750 gallons a minute. Irrigated 334 acres in 1937. 120 feet of 15-inch, 40 feet of 13-inch and 15 feet of 10-inch steel casing. |
| 967 | 1 | 74.7 | Aug. 2, 1937 | T,G, 85 | I | Irrigated 181 acres in 1937. 179 feet of 17-inch and 13-inch steel casing. |
| 969 | -- | 58 | d/ | T,G, 85 | I | Irrigated 154 acres in 1937. 135 feet 15-inch steel casing, 34 feet 13-inch steel |
| 970 | 1 | 64.1 | Aug. 3, 1937 | T,G, 85 | I | Irrigated 145 acres in 1937. 130 feet 15-inch steel casing, 49 feet 10-inch |
| 971 | 1 | 62.3 | Sept. 10, 1937 | T,G, 85 | I | Irrigated 160 acres in 1937. 240 feet 13-inch steel casing. Reported |
| 972 | 1 | 52 | do. | None | N | Pump not installed. Drilled as irrigation well. weak supply. |
| 973 | -- | 80 | d/ | T,G, 85 | I | Irrigated 150 acres in 1937. 140 feet 15-inch steel casing, 30 feet 12-inch steel casing, 25 feet 10-inch steel casing. |
| 974 | 1 | 76.9 | July 23, 1937 | T,G, 85 | I | Reported yield, 800 gallons a minute. Irrigated 320 acres in 1937. 228 feet steel |
| 975 | 1 | 82.7 | do. | T,G, 85 | I | Reported yield, 800 gallons a minute. Irrigated 110 acres in 1937. 224 |
| 976 | 1.5 | 99.8 | do. | T,G, 85 | I | Reported yield, 700 gallons a minute. Irrigated 160 acres in 1937. feet steel casing. |
| 977 | 0.6 | 99.5 | do. | T,G, 50 | I | Reported 40 feet drawdown after pumping 900 gallons a minute for $\frac{1}{2}$ hour. Irrigated 130 acres in 1937. 211 feet steel casing. See log. |

Records of wells in Hale County--Continued

| No. | Distance from Hale Center | Section | Survey, Block | Owner | Driller | Date completed | Depth of well (ft.) | Diameter of well (in.) |
|-----|----------------------------------|---|---------------|------------------|---------------|----------------|---------------------|------------------------|
| 978 | 20 $\frac{1}{2}$ miles southeast | 104, NW $\frac{1}{4}$ NW $\frac{1}{4}$ | blk. C | A. W. Jackson | McDaniels | 1936 | 200 | 15 $\frac{1}{2}$ |
| 979 | 21 $\frac{1}{2}$ miles southeast | 26, NW $\frac{1}{4}$ SW $\frac{1}{4}$ | blk. C 2 | J. W. Allen | Carl Mangum | 1937 | 200 | 16 |
| 980 | 22 miles southeast | 67, NW $\frac{1}{4}$ SE $\frac{1}{4}$ | blk. C | Mrs. C. R. Logan | do. | 1937 | 201 | 16 |
| 981 | 22 $\frac{1}{2}$ miles southeast | 68, NW $\frac{1}{4}$ NE $\frac{1}{4}$ | do. | J. J. Culp | A. B. Culp | 1937 | 158 | 14 $\frac{1}{2}$ |
| 982 | 15 miles east | 7, NW $\frac{1}{4}$ SW $\frac{1}{4}$ | blk. L | Geo. Meriwether | L. A. Peoples | 1936 | 342 | — |

a/ Measuring point was usually top of casing, pump base, pipe clamp, or well curb. Point was above ground unless below ground indicated by minus (-) sign.

b/ T, turbine; Cf, centrifugal; C, cylinder; E, electric; G, gasoline; O, diesel or oil; Ng, Natural gas; W, windmill; H, hand; number indicates horsepower.

| No. | Height of measuring point above ground (ft.) <u>a/</u> | Water Level | | Pump and power <u>b/</u> | Use of water <u>c/</u> | Remarks |
|-----|--|-----------------------------------|---------------------|--------------------------|------------------------|--|
| | | Depth below measuring point (ft.) | Date of measurement | | | |
| 978 | 1 | 81 | Aug. 3, 1937 | T, G, 85 | I | Irrigated 190 acres in 1937. 170 feet 15 $\frac{1}{2}$ -inch steel casing, 35 feet 13 $\frac{1}{2}$ -inch steel casing. |
| 979 | 2 | 71.1 | Aug. 2, 1937 | T, G, 85 | I | Irrigated 200 acres in 1937. See log. 110 feet 16-inch steel casing, 90 feet 14-inch steel casing. Pump set at 100 feet. |
| 980 | -- | 80 | <u>d/</u> | T, G, 85 | I | Irrigated 156 acres in 1937. 179 feet 16-inch steel casing, 21 feet 15-inch steel casing. Pump set at 130 feet. |
| 981 | -- | 80 | <u>d/</u> | T, G, 85 | I | Irrigated 125 acres in 1937. 40 feet steel casing. |
| 982 | -- | -- | -- | None | N | Reported weak supply. Water sand reported, 35 to 42 feet. |

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

d/ Water level reported.

Table of drillers' logs, Hale County, Texas

| | Thickness (feet) | Depth (feet) |
|--|---------------------|-----------------|
| <u>Driller's log of well 3</u> | | |
| J. O. Bass tract, 17 $\frac{1}{2}$ miles northwest of Hale Center. | | |
| Top soil - - - - - | 4 | 4 |
| Caliche - - - - - | 8 | 12 |
| Red clay - - - - - | 21 | 33 |
| Red sand - - - - - | 37 | 70 |
| Water sand - - - - - | 38 | 108 |
| Red sand and gravel - - - - | 33 | 141 |
| White sand - - - - - | 21 | 162 |
| Red sand - - - - - | 13 | 175 |
| Water sand - - - - - | 14 | 189 |
| Packed sand - - - - - | 2 | 191 |
| Water sand - - - - - | 29 | 220 |
| TOTAL DEPTH - - - - - | | 220 |
| Reported struck water at 63 feet. | | |

| | | |
|--|----|-----|
| <u>Driller's log of well 24</u> | | |
| L. R. Vaughn tract, 18 $\frac{1}{2}$ miles northwest of Hale Center. | | |
| Top soil - - - - - | 84 | 84 |
| Water sand - - - - - | 26 | 110 |
| Sandy shale - - - - - | 32 | 142 |
| Red water sand - - - - - | 54 | 196 |
| TOTAL DEPTH - - - - - | | 196 |
| CASING RECORD: 48 feet of 16-inch perforated steel casing from 72 to 110 feet. | | |

| | | |
|---|----|-----|
| <u>Driller's log of well 33</u> | | |
| E. T. Hines tract, 12 $\frac{1}{2}$ miles northwest of Hale Center. | | |
| Top soil - - - - - | 40 | 40 |
| Dry packed sand - - - - - | 52 | 92 |
| Quicksand - - - - - | 30 | 122 |
| White clay and sand - - - - | 12 | 134 |
| Red clay - - - - - | 28 | 162 |
| Quicksand - - - - - | 3 | 165 |
| Red clay and sand - - - - - | 27 | 192 |
| Water sand - - - - - | 11 | 203 |
| Red clay - - - - - | 2 | 205 |
| Water sand and gravel - - - - | 7 | 212 |
| Red clay - - - - - | 4 | 216 |
| TOTAL DEPTH - - - - - | | 216 |

| | | |
|--|----|-----|
| <u>Driller's log of well 36</u> | | |
| G. D. Lewellen tract, 12 $\frac{1}{2}$ miles northwest of Hale Center. | | |
| Top soil - - - - - | 85 | 85 |
| Water sand - - - - - | 43 | 128 |
| Sandy shale - - - - - | 34 | 162 |
| Red water sand - - - - - | 37 | 199 |
| TOTAL DEPTH - - - - - | | 199 |

| | Thickness (feet) | Depth (feet) |
|---|---------------------|-----------------|
| <u>Driller's log of well 38</u> | | |
| E. H. Kirkoff, et al. tract, 10 $\frac{1}{2}$ miles northwest of Hale Center. | | |
| Sand - - - - - | 50 | 50 |
| Quicksand - - - - - | 250 | 300 |
| Lime and red rock - - - - - | 5 | 305 |
| Red shale - - - - - | 5 | 310 |
| Blue shale - - - - - | 5 | 315 |
| Sand - - - - - | 5 | 320 |
| Shale - - - - - | 10 | 330 |
| Sand - - - - - | 45 | 375 |
| Quicksand - - - - - | 35 | 410 |
| Red rock - - - - - | 55 | 465 |
| Blue shale - - - - - | 30 | 495 |
| Red rock - - - - - | 45 | 540 |
| Blue shale - - - - - | 5 | 545 |
| Red rock - - - - - | 220 | 765 |
| Salt water sand - - - - - | 35 | 800 |
| Red rock - - - - - | 25 | 825 |
| Water sand - - - - - | 15 | 840 |
| Red rock - - - - - | 40 | 880 |
| Sand - - - - - | 10 | 890 |
| Red rock - - - - - | 155 | 1045 |
| Water sand - - - - - | 40 | 1085 |
| Red rock - - - - - | 35 | 1120 |
| Blue shale - - - - - | 30 | 1150 |
| Red rock - - - - - | 10 | 1160 |
| Water sand - - - - - | 15 | 1175 |
| Red rock - - - - - | 10 | 1185 |
| Sand - - - - - | 10 | 1195 |
| Sandy red rock - - - - - | 15 | 1210 |
| Red sand - - - - - | 15 | 1225 |
| Red rock - - - - - | 155 | 1380 |
| Anhydrite - - - - - | 55 | 1435 |
| Red rock - - - - - | 20 | 1455 |
| Anhydrite - - - - - | 5 | 1460 |
| Red rock - - - - - | 40 | 1500 |
| Salt and anhydrite - - - - - | 10 | 1510 |
| Red rock - - - - - | 10 | 1520 |
| Salt and red rock - - - - - | 90 | 1610 |
| TOTAL DEPTH - - - - - | | 3800 |
| Reported sulphur water below 3,800 feet. | | |

| | | |
|---|----|----|
| <u>Driller's log of well 254</u> | | |
| C. H. Day tract, 10 miles north of Hale Center. | | |
| Top soil - - - - - | 37 | 37 |
| Water sand - - - - - | 2 | 39 |
| Rock - - - - - | 7 | 46 |
| White clay - - - - - | 13 | 59 |
| Rock - - - - - | 5 | 64 |
| Yellow sand and gravel - - - - | 12 | 76 |
| Red clay - - - - - | 6 | 82 |
| Caving water sand - - - - - | 10 | 92 |
| Dry sand and clay - - - - - | 7 | 99 |

(Continued on next page)

Table of drillers' logs, Hale County--Continued

| | Thickness (feet) | Depth (feet) |
|---|---------------------|-----------------|
| <u>Driller's log of well 254--Continued</u> | | |
| Caving water sand - - - - | 13 | 112 |
| Clay and sand - - - - - | 18 | 130 |
| Caving water sand - - - - | 12 | 142 |
| TOTAL DEPTH - - - - - | | 142 |

| | Thickness (feet) | Depth (feet) |
|--|---------------------|-----------------|
| <u>Driller's log of well 272</u> | | |
| City of Plainview well 1, in Plainview, 11 miles northeast of Hale Center. | | |
| Top soil - - - - - | 5 | 5 |
| Red caliche- - - - - | 29 | 34 |
| Hard caliche and nodules- | 9 | 43 |
| Pink gravel - - - - - | 16 | 59 |
| Sandy caliche - - - - - | 2 | 61 |
| Red shale - - - - - | 9 | 70 |
| Sand and gravel - - - - - | 15 | 85 |
| Packed sand - - - - - | 25 | 110 |
| Rock - - - - - | 6 | 116 |
| White sand- - - - - | 21 | 137 |
| Red sand - - - - - | 10 | 147 |
| Hard sand - - - - - | 14 | 161 |
| Sand - - - - - | 15 | 176 |
| Fine-grained sand - - - - | 18 | 194 |
| "Clean" sand - - - - - | 9 | 203 |
| Gritty sand- - - - - | 10 | 213 |
| Coarse-grained sand - - - | 88 | 301 |
| TOTAL DEPTH - - - - - | | 301 |

| | Thickness (feet) | Depth (feet) |
|---|---------------------|-----------------|
| <u>Driller's log of well 330</u> | | |
| Geo. White tract, 16½ miles northeast of Hale Center. | | |
| Top soil - - - - - | 42 | 42 |
| Soft rock - - - - - | 17 | 59 |
| Sand and clay - - - - - | 8 | 67 |
| Red clay - - - - - | 22 | 89 |
| White clay - - - - - | 7 | 96 |
| Red clay- - - - - | 8 | 104 |
| Loose, fine-grained sand- | 20 | 124 |
| Sand and boulders - - - - | 10 | 134 |
| Yellow clay - - - - - | 46 | 180 |
| Yellow sand - - - - - | 40 | 220 |
| TOTAL DEPTH - - - - - | | 220 |

| | Thickness (feet) | Depth (feet) |
|---|---------------------|-----------------|
| <u>Driller's log of well 336</u> | | |
| Earl Miner tract, 19½ miles northeast of Hale Center. | | |
| Top soil - - - - - | 42 | 42 |
| Soft sand - - - - - | 25 | 67 |
| Clay - - - - - | 4 | 71 |
| Packed sand - - - - - | 23 | 94 |
| Soft sand - - - - - | 29 | 123 |
| Packed sand - - - - - | 77 | 200 |
| TOTAL DEPTH - - - - - | | 200 |

| | Thickness (feet) | Depth (feet) |
|--|---------------------|-----------------|
| <u>Driller's log of well 339</u> | | |
| C. R. Boedeker tract, 19½ miles north-east of Hale Center. | | |
| Top soil - - - - - | 39 | 39 |
| Rock - - - - - | 10 | 49 |
| Sand and clay- - - - - | 12 | 61 |
| Red clay - - - - - | 22 | 83 |
| Packed sand- - - - - | 8 | 91 |
| Yellow clay- - - - - | 23 | 114 |
| Red clay - - - - - | 18 | 132 |
| Packed sand- - - - - | 8 | 140 |
| Quicksand- - - - - | 18 | 158 |
| White clay - - - - - | 46 | 204 |
| Sand and gravel- - - - - | 12 | 216 |
| TOTAL DEPTH- - - - - | | 216 |

| | Thickness (feet) | Depth (feet) |
|---|---------------------|-----------------|
| <u>Driller's log of well 353</u> | | |
| P. W. Jackson tract, 16 miles northeast of Hale Center. | | |
| Top soil - - - - - | 44 | 44 |
| White clay and sand- - - - | 35 | 79 |
| Red clay - - - - - | 12 | 91 |
| Caving sand- - - - - | 11 | 102 |
| Sandy clay - - - - - | 25 | 127 |
| White sand and gravel- - - | 32 | 159 |
| White clay - - - - - | 4 | 163 |
| Red sand - - - - - | 21 | 184 |
| Red clay - - - - - | 4 | 188 |
| White sand - - - - - | 13 | 201 |
| Hard-packed gravel and sand- | 22 | 223 |
| White clay - - - - - | 3 | 226 |
| TOTAL DEPTH- - - - - | | 226 |

| | Thickness (feet) | Depth (feet) |
|---|---------------------|-----------------|
| <u>Driller's log of well 426</u> | | |
| Brad Cox tract, 17½ miles northeast of Hale Center. | | |
| Top soil - - - - - | 44 | 44 |
| Water, clay and gravel - - | 4 | 48 |
| Rock - - - - - | 4 | 52 |
| Sand and clay- - - - - | 36 | 88 |
| Caving sand- - - - - | 5 | 93 |
| Water gravel and clay- - - | 34 | 127 |
| Caving yellow sand - - - - | 7 | 134 |
| Caving red sand - - - - - | 20 | 154 |
| Light-yellow caving sand - | 11 | 165 |
| Red clay - - - - - | 7 | 172 |
| Light-red water sand - - - | 14 | 186 |
| Red clay and sand- - - - - | 8 | 194 |
| Red water sand and gravel- | 7 | 201 |
| TOTAL DEPTH - - - - - | | 201 |

Table of drillers' logs, Hale County--Continued

| | Thickness (feet) | Depth (feet) |
|---|---------------------|-----------------|
| <u>Driller's log of well 483</u> | | |
| Jagelky Bros. tract, 8 miles east of Hale Center. | | |
| Top soil - - - - - | 3 | 3 |
| Sandy white soil and caliche | 7 | 10 |
| Light-colored sandy clay- - | 10 | 20 |
| Caliche- - - - - | 12 | 32 |
| Brown limestone - - - - - | 4 | 36 |
| Caliche - - - - - | 5 | 41 |
| Sandy clay, water at 41 - - | 19 | 60 |
| Sandy red gravel and clay - | 5 | 65 |
| Limestone - - - - - | 17 | 82 |
| Yellow sand - - - - - | 4 | 86 |
| Sandy yellow gravel - - - - | 8 | 94 |
| Hard rock - - - - - | 2 | 96 |
| Yellow sand - - - - - | 4 | 100 |
| Sandy white clay- - - - - | 7 | 107 |
| White water sand- - - - - | 7 | 114 |
| White clay - - - - - | 3 | 117 |
| Sandy red clay -- - - - - | 12 | 129 |
| Sandy gray clay - - - - - | 6 | 135 |
| Sandy clay and gravel - - - | 25 | 160 |
| "Red Beds" - - - - - | 22 | 182 |
| TOTAL DEPTH-- - - - - - | | 182 |

| | Thickness (feet) | Depth (feet) |
|--|---------------------|-----------------|
| <u>Driller's log of well 501</u> | | |
| D. F. Morgan tract, 8½ miles north of Hale Center. | | |
| Top soil - - - - - | 64 | 64 |
| Dry sand- - - - - | 6 | 70 |
| Rock - - - - - | 12 | 82 |
| Sand and boulders- - - - - | 25 | 107 |
| Clay and sand - - - - - | 31 | 138 |
| Fine-grained sand - - - - - | 17 | 155 |
| Hard-packed sand - - - - - | 6 | 161 |
| Fine-grained sand - - - - - | 23 | 184 |
| Coarse-grained sand- - - - | 16 | 200 |
| Red clay - - - - - | 1 | 201 |
| TOTAL DEPTH- - - - - | | 201 |

| | Thickness (feet) | Depth (feet) |
|---|---------------------|-----------------|
| <u>Driller's log of well 539</u> | | |
| Fred Ratstetter tract, 3¼ miles northeast of Hale Center. | | |
| Top soil - - - - - | 2 | 2 |
| Clay - - - - - | 30 | 32 |
| Dry sand and boulders- - - | 26 | 58 |
| Brown water sand - - - - - | 23 | 81 |
| White clay - - - - - | 29 | 110 |
| Red clay - - - - - | 28 | 138 |
| Packed sand- - - - - | 19 | 157 |
| Water sand - - - - - | 18 | 175 |
| TOTAL DEPTH - - - - - | | 175 |

| | Thickness (feet) | Depth (feet) |
|--|---------------------|-----------------|
| <u>Driller's log of well 720a</u> | | |
| G. W. Herd Ranch, 17 miles southwest of Hale Center. | | |
| Sand - - - - - | 2 | 2 |
| Black soil - - - - - | 8 | 10 |
| Chalky sand- - - - - | 12 | 22 |
| Soft lime rock - - - - - | 2 | 24 |
| Water sand - - - - - | 30 | 54 |
| "Red Beds" - - - - - | 8 | 62 |
| Water sand - - - - - | 10 | 72 |
| Sand and fine-grained lime- | 28 | 100 |
| Water sand - - - - - | 70 | 170 |
| Sticky sand- - - - - | 59 | 229 |
| "Red Beds" - - - - - | 40 | 269 |
| Blue shale - - - - - | 10 | 279 |
| Sandy blue shale - - - - - | 1 | 280 |
| Blue shale - - - - - | 40 | 320 |
| Blue sand - - - - - | 40 | 360 |
| Blue sand and lime - - - - | 40 | 400 |
| Hard blue sand - - - - - | 5 | 405 |
| Red rock- - - - - | 5 | 410 |
| Blue sand rock - - - - - | 5 | 415 |
| Blue sand, hole full water- | 15 | 430 |
| Limerock - - - - - | 8 | 438 |
| Water sand - - - - - | 2 | 440 |
| "Red Beds" - - - - - | 8 | 448 |
| Fine-grained sand- - - - - | 2 | 450 |
| Blue shale - - - - - | 2 | 452 |
| White sand - - - - - | 3 | 455 |
| "Red Beds" - - - - - | 1 | 456 |
| Lime and sand- - - - - | 1 | 457 |
| Blue shale - - - - - | 1 | 458 |
| "Red Beds" - - - - - | 1 | 459 |
| Blue shale - - - - - | 1 | 460 |
| Sand and lime- - - - - | 4 | 464 |
| Blue shale - - - - - | 2 | 466 |
| Sand - - - - - | 1 | 467 |
| "Red Beds" - - - - - | 1 | 468 |
| Blue shale - - - - - | 1 | 469 |
| White sand - - - - - | 1 | 470 |
| "Red Beds" - - - - - | 2 | 472 |
| Red and blue mixture - - - | 8 | 480 |
| "Red Beds" - - - - - | | 480 |
| TOTAL DEPTH - - - - - | | 480 |

| | Thickness (feet) | Depth (feet) |
|--|---------------------|-----------------|
| <u>Driller's log of well 734</u> | | |
| W. A. Richter tract, 13½ miles south of Hale Center. | | |
| Top soil - - - - - | 5 | 5 |
| Yellow clay- - - - - | 60 | 65 |
| Sandy red clay - - - - - | 15 | 80 |
| Red clay- - - - - | 10 | 90 |
| Water sand- - - - - | 20 | 110 |
| Red clay - - - - - | 20 | 130 |
| Water sand - - - - - | 5 | 135 |

(Continued on next page)

Table of drillers' logs, Hale County--Continued

| | Thickness (feet) | Depth (feet) |
|---|---------------------|-----------------|
| <u>Driller's log of well 734--Continued</u> | | |
| Yellow mud - - - - - | 22 | 157 |
| Gray lime and quartz - - - | 8 | 165 |
| Red clay and lime shells - | 70 | 235 |
| Water sand - - - - - | 15 | 250 |
| Red clay- - - - - | 137 | 387 |
| Water sand, hole full water | 28 | 415 |
| Blue shale - - - - - | 10 | 425 |
| Water sand - - - - - | 10 | 435 |
| Gravel - - - - - | 5 | 440 |
| Lime - - - - - | 5 | 445 |
| Blue shale - - - - - | 8 | 453 |
| Red shale- - - - - | 12 | 465 |
| Blue gumbo - - - - - | 20 | 485 |
| Red shale- - - - - | 27 | 512 |
| Blue shale - - - - - | 8 | 520 |
| Brown shale- - - - - | 10 | 530 |
| Pink shale - - - - - | 90 | 620 |
| Blue sand - - - - - | 10 | 630 |
| Red rock- - - - - | 95 | 725 |
| Blue shale - - - - - | 7 | 732 |
| Red rock - - - - - | 173 | 905 |
| Salt water sand- - - - - | 50 | 955 |
| Red clay - - - - - | 7 | 962 |
| Blue shale - - - - - | 5 | 967 |
| Red rock- - - - - | 8 | 975 |
| Sandy pink shale - - - - - | 20 | 995 |
| Yellow mud - - - - - | 45 | 1040 |
| Pink mud - - - - - | 30 | 1070 |
| Brown mud- - - - - | 25 | 1095 |
| Red shale- - - - - | 10 | 1105 |
| Brown mud- - - - - | 20 | 1125 |
| Pink shale - - - - - | 20 | 1145 |
| Red rock- - - - - | 13 | 1158 |
| Salt water sand- - - - - | 40 | 1198 |
| Red rock - - - - - | 2 | 1200 |
| Lime shell - - - - - | 3 | 1203 |
| Blue shale - - - - - | 7 | 1210 |
| Blue sand- - - - - | 10 | 1220 |
| Blue shale - - - - - | 5 | 1225 |
| Red clay - - - - - | 23 | 1248 |
| White sand - - - - - | 4 | 1252 |
| Red clay - - - - - | 26 | 1278 |
| White sand, oil- - - - - | 7 | 1285 |
| Red shale- - - - - | 20 | 1305 |
| Lime and sand shell- - - - | 1 | 1306 |
| Red shale- - - - - | 14 | 1320 |
| Light-brown shale- - - - - | 10 | 1330 |
| Red rock - - - - - | 5 | 1335 |
| Salt water sand- - - - - | 68 | 1403 |
| TOTAL DEPTH- - - - - | | 1403 |

| <u>Driller's log of well 809</u> | | |
|--|----|----|
| C. J. Robertson tract, 9 miles southeast of Hale Center. | | |
| Top soil - - - - - | 55 | 55 |

| | Thickness (feet) | Depth (feet) |
|---|---------------------|-----------------|
| <u>Driller's log of well 809--Continued</u> | | |
| Red water sand - - - - - | 25 | 80 |
| Hard lime rock - - - - - | 3 | 83 |
| Medium-grained red sand- | 7 | 90 |
| White shale - - - - - | 7 | 97 |
| Yellow lime- - - - - | 18 | 115 |
| Yellow shale - - - - - | 13 | 128 |
| Brown shale- - - - - | 12 | 140 |
| Sand - - - - - | 10 | 150 |
| Red clay - - - - - | 15 | 165 |
| TOTAL DEPTH- - - - - | | 165 |

| <u>Driller's log of well 909</u> | | |
|--|----|-----|
| C. J. Barnard tract, 15 miles east of Hale Center. | | |
| White rock - - - - - | 5 | 5 |
| Red sand- - - - - | 6 | 11 |
| Red clay - - - - - | 20 | 31 |
| Fine-grained sand- - - - | 27 | 58 |
| Shell rock - - - - - | 7 | 65 |
| Red clay - - - - - | 23 | 88 |
| Sand - - - - - | 19 | 107 |
| Clay - - - - - | 4 | 111 |
| Coarse-grained sand- - - | 9 | 120 |
| White clay - - - - - | 13 | 133 |
| Sand rock - - - - - | 24 | 157 |
| Red clay - - - - - | 31 | 188 |
| TOTAL DEPTH- - - - - | | 188 |

| <u>Driller's log of well 911</u> | | |
|---|----|-----|
| Clyde Applewhite tract, 15 $\frac{1}{2}$ miles east of Hale Center. | | |
| Top soil - - - - - | 2 | 2 |
| Chalky dirt- - - - - | 8 | 10 |
| Sandy clay - - - - - | 10 | 20 |
| White rock - - - - - | 10 | 30 |
| Pink water sand and clay- | 10 | 40 |
| Red sand - - - - - | 20 | 60 |
| Mottled clay - - - - - | 5 | 65 |
| Red water sand- - - - - | 5 | 70 |
| Sandy clay - - - - - | 5 | 75 |
| Red water sand - - - - - | 5 | 80 |
| Clay and red sand- - - - | 12 | 92 |
| Sticky clay and sand- - - | 18 | 110 |
| Water sand and gravel - - | 27 | 137 |
| Water sand and clay - - - | 13 | 150 |
| Clay - - - - - | 7 | 157 |
| Water sand - - - - - | 3 | 160 |
| Pink clay- - - - - | 5 | 165 |
| Coarse-grained water sand- | 17 | 182 |
| Packed sand - - - - - | 2 | 184 |
| Layered water sand and clay - - - - - | 11 | 195 |
| Sandy clay and white gravel - - - - - | 23 | 218 |

(Continued on next page)

Table of drillers' logs, Hale County--Continued

| | Thickness (feet) | Depth (feet) |
|---|---------------------|-----------------|
| <u>Driller's log of well 911--Continued</u> | | |
| Water gravel - - - - - | 11 | 229 |
| Sandy clay- - - - - | 8 | 237 |
| Water sand- - - - - | 5 | 242 |
| Sandy clay - - - - - | 8 | 250 |
| Water sand and gravel- - - | 8 | 258 |
| Yellow water sand and gravel- | 8 | 266 |
| Gravel - - - - - | 7 | 273 |
| TOTAL DEPTH - - - - - | | 273 |

| <u>Driller's log of well 954</u> | | |
|--|----|-----|
| A. B. Martin tract, 12 miles southeast of Hale Center. | | |
| Top soil - - - - - | 68 | 68 |
| White lime - - - - - | 4 | 72 |
| Honey-comb rock- - - - - | 10 | 82 |
| Sandy clay and gravel- - - | 11 | 93 |
| Red sand and white gravel- | 47 | 140 |
| Red sand and clay - - - - - | 8 | 148 |
| Brown water sand- - - - - | 32 | 180 |
| Leached clay - - - - - | 27 | 207 |
| Lime rock - - - - - | 18 | 225 |
| Light-colored clay and gravel - - - - - | 25 | 250 |
| Sandy brown clay - - - - - | 10 | 260 |
| TOTAL DEPTH- - - - - | | 260 |

| <u>Driller's log of well 977</u> | | |
|--|----|----|
| H. S. Leon tract, 18 miles southeast of Hale Center. | | |
| Top soil - - - - - | 4 | 4 |
| Caliche - - - - - | 2 | 6 |
| Yellow clay- - - - - | 20 | 26 |
| Red clay - - - - - | 9 | 35 |
| Sandy clay - - - - - | 20 | 55 |
| Red sand - - - - - | 23 | 78 |
| Hard rock - - - - - | 4 | 82 |

| | Thickness (feet) | Depth (feet) |
|---|---------------------|-----------------|
| <u>Driller's log of well 977--Continued</u> | | |
| Sandy clay - - - - - | 12 | 94 |
| Water sand - - - - - | 10 | 104 |
| Sandy red clay - - - - - | 16 | 120 |
| Quicksand - - - - - | 12 | 132 |
| Sandy clay - - - - - | 6 | 138 |
| Water sand - - - - - | 10 | 148 |
| Sticky clay- - - - - | 7 | 155 |
| Light-colored water sand - | 12 | 167 |
| Quicksand - - - - - | 7 | 174 |
| Coarse-grained water sand- | 22 | 196 |
| Doughy sand and rock - - - | 7 | 203 |
| Water sand and gravel- - - | 8 | 211 |
| TOTAL DEPTH - - - - - | | 211 |

| <u>Driller's log of well 978</u> | | |
|---|----|-----|
| A. W. Jackson tract, 20 $\frac{1}{2}$ miles southeast of Hale Center. | | |
| Top soil - - - - - | 4 | 4 |
| White chalk- - - - - | 2 | 6 |
| Brown clay - - - - - | 6 | 12 |
| Crumbly red clay - - - - - | 8 | 20 |
| Sandy clay - - - - - | 33 | 53 |
| Sand - - - - - | 10 | 63 |
| Cap rock - - - - - | 13 | 76 |
| Water sand and clay- - - - | 7 | 83 |
| Water sand - - - - - | 22 | 105 |
| Quicksand- - - - - | 7 | 112 |
| Red clay - - - - - | 14 | 126 |
| Water sand - - - - - | 14 | 140 |
| Gumbo clay - - - - - | 12 | 152 |
| Quicksand- - - - - | 14 | 166 |
| Sandy clay - - - - - | 7 | 173 |
| Water sand - - - - - | 27 | 200 |
| TOTAL DEPTH- - - - - | | 200 |

Logs of test wells drilled by W. P. A. labor in Hale County, Texas
Samples examined and classified by
B. G. Brigance and G. H. Shafer, Project Superintendents.

| | Thickness (feet) | Depth (feet) |
|--|---------------------|-----------------|
| <u>Well 489</u> | | |
| River terrace, R. B. Howell tract, NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 3, blk. D6, G. C. & S. F. R. R. survey, 14 $\frac{1}{2}$ miles northeast of Hale Center. Representative log of four tests. | | |
| Sandy brown surface materials - - - - - | 3 | 3 |
| Fine-grained light gray sand- | 4 | 7 |
| Coarse-grained white sand - - | 3 | 10 |
| Coarse-grained white and yellow sand, caliche pebbles and boulders- - - - - | 5 | 15 |
| Greenish-colored clay, sand and caliche - - - - - | 1 | 16 |
| Coarse-grained gray clay and sand- - - - - | 6 | 22 |
| Water level 20.4 feet below top of ground, 20 hours after hole completed. | | |
| Water sample collected. Nov. 29, 1937. | | |

| | Thickness (feet) | Depth (feet) |
|--|---------------------|-----------------|
| <u>Well 490</u> | | |
| River bottoms, J. B. Long tract, NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 21, blk. D5, D. & P. R. R. survey, 16 miles east of Hale Center. | | |
| Sandy brown top soil- - - - - | 6 | 6 |
| Coarse-grained gray sand and gravel - - - - - | 1 | 7 |
| Coarse-grained gray sand- - - | 3 | 10 |
| Fine-grained greenish-colored sand- - - - - | 2 | 12 |
| Gray sand, caliche and caliche pebbles - - - - - | 4 | 16 |
| No water sample collected. Dec. 2, 1937. | | |

| | Thickness (feet) | Depth (feet) |
|--|---------------------|-----------------|
| <u>Well 490a</u> | | |
| River bottoms, J. B. Long tract, NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 21, blk. D5, D. & P. R. R. survey, 16 miles east of Hale Center. | | |
| Sandy brown surface soil- - - | 7 | 7 |
| Coarse-grained gray sand- - - | 6 | 13 |
| Coarse-grained gray sand and caliche pebbles - - - - - | 2 | 15 |
| Greenish-colored clay and sand | 2 | 17 |
| Gray sand, caliche and hard caliche fragments - - - - - | 3 | 20 |
| No water sample collected. Dec. 2, 1937. | | |

| | Thickness (feet) | Depth (feet) |
|---|---------------------|-----------------|
| <u>Well 491</u> | | |
| River bottoms, Lizzie B. Morris tract, SW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 37, blk. D6, E. L. & R. R. R. survey, 15 miles east of Hale Center. | | |
| Black surface materials- - - | 3 | 3 |
| Coarse-grained brown sand- - | 2 | 5 |
| Gray sand and caliche pebbles | 2 | 7 |

| | Thickness (feet) | Depth (feet) |
|--|---------------------|-----------------|
| <u>Well 491--Continued</u> | | |
| Coarse-grained sand and gravel and greenish-colored clay | 2 | 9 |
| Soft powdery caliche and sand- - - - - | 1 | 10 |
| Greenish-colored sandy clay and caliche - - - - - | 1 | 11 |
| Rock- - - - - | 1 | 12 |
| Water level, 10.6 feet below top of ground, 1 hour after hole completed. | | |
| Water sample collected. Dec. 4, 1937. | | |

| | Thickness (feet) | Depth (feet) |
|---|---------------------|-----------------|
| <u>Well 492</u> | | |
| River bottoms, R. A. Bradshaw tract, SE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 36, blk. D6, E. L. & R. R. R. survey, 15 miles east of Hale Center. | | |
| Black surface materials- - - | 3 | 3 |
| Coarse-grained gray sand - - | 4 | 7 |
| Caliche - - - - - | 2 | 9 |
| Sand and caliche - - - - - | 1 | 10 |
| Water level, 9.9 feet below top of ground, 24 hours after hole completed. | | |
| Water sample collected. Dec. 4, 1937. | | |

| | Thickness (feet) | Depth (feet) |
|---|---------------------|-----------------|
| <u>Well 492a</u> | | |
| In draw, R. A. Bradshaw tract, SW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 36, blk. D6, E. L. & R. R. R. survey, 15 miles east of Hale Center. | | |
| Grayish-brown surface soil- - | 5 | 5 |
| Coarse-grained gray sand and caliche pebbles- - - - | 3 | 8 |
| No water sample collected. Dec. 4, 1937. | | |

| | Thickness (feet) | Depth (feet) |
|--|---------------------|-----------------|
| <u>Well 493</u> | | |
| In draw, side of county road, NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 11, blk. D6, G. C. & S. F. R. R. survey, 12 $\frac{1}{2}$ miles northeast of Hale Center. | | |
| Soil- - - - - | 7 | 7 |
| Sand- - - - - | 2 | 9 |
| Sand and gravel - - - - - | 3 | 12 |
| Soil and caliche -- - - - - | 5 | 17 |
| Sandy limestone - - - - - | 8 | 25 |
| Water level, 22.2 feet below top of g ground, 3 hours after hole completed. | | |
| No water sample collected. Aug. 31, 1937. | | |

| | Thickness (feet) | Depth (feet) |
|--|---------------------|-----------------|
| <u>Well 493a</u> | | |
| In draw, side of county road, NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 11, blk. D6, G. C. & S. F. R. R. survey, 12 $\frac{1}{2}$ miles northeast of Hale Center. | | |
| Soil- - - - - | 7 | 7 |
| White sand- - - - - | 5 | 12 |
| Sand and caliche- - - - - | 2 | 14 |
| White limestone - - - - - | 4 | 18 |

(Continued on next page)

Logs of W. P. A. test wells in Hale County--Continued

| | Thickness (feet) | Depth (feet) |
|--|---------------------|-----------------|
|--|---------------------|-----------------|

Well 493a--Continued

| | | |
|---|---|----|
| Sand and chalky lime - - - - | 7 | 25 |
| Struck water at 21 feet. | | |
| No water sample collected. Aug. 30, 1937. | | |

Well 493b

In draw, side of county road, NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 11, blk. D6, G. C. & S. F. R. R. survey, 12 $\frac{1}{2}$ miles northeast of Hale Center.

| | | |
|--|---|----|
| Soil- - - - - | 5 | 5 |
| Gray clay - - - - - | 3 | 8 |
| White sand- - - - - | 3 | 11 |
| Sandy caliche - - - - - | 3 | 14 |
| Sandy yellow clay and rock- - | 3 | 17 |
| Sandy light-red clay- - - - - | 3 | 20 |
| Sandy yellow clay - - - - - | 2 | 22 |
| Water sample collected. Aug. 30, 1937. | | |

Well 493c

In draw, side of county road, NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 11, blk. D6, G. C. & S. F. R. R. survey, 12 $\frac{1}{2}$ miles northeast of Hale Center.

| | | |
|--|---|----|
| Soil- - - - - | 5 | 5 |
| Sandy gray clay - - - - - | 2 | 7 |
| White sand- - - - - | 5 | 12 |
| Sandy caliche - - - - - | 1 | 13 |
| Sandy yellow clay - - - - - | 2 | 15 |
| Sandy lime and rock - - - - - | 7 | 22 |
| Water level, 19.9 feet below top of ground, 18 hours after hole completed. | | |
| No water sample collected. Sept. 1, 1937. | | |

Well 494

Bottom of dry sink, Mrs. Eula Lane tract, NW $\frac{1}{4}$ sec. 10, blk. D6, G. C. & S. F. R. R. survey, 13 $\frac{1}{2}$ miles northeast of Hale Center. Log is test 14 of 15 holes.

| | | |
|--|----|----|
| Brown surface soil- - - - - | 3 | 3 |
| Fine-grained gray sand and caliche - - - - - | 5 | 8 |
| Fine-grained gray and light-red sand- - - - - | 11 | 19 |
| Fine-grained pink-colored sand and lime - - - - - | 3 | 22 |
| Gray sand and gravel- - - - - | 3 | 25 |
| Pink-colored sand and gravel- - | 6 | 31 |
| Water level, 28.6 feet below top of tin casing, 1.1 feet above ground, 5 hours after hole completed. | | |
| Water sample collected. Nov. 13, 1937. | | |

Well 495

River bottoms, George M Schick tract, south line of sec. 20, blk. N, 15 miles east of Hale Center. Log is test 5 of 7 holes.

| | Thickness (feet) | Depth (feet) |
|--|---------------------|-----------------|
|--|---------------------|-----------------|

Well 495--Continued

| | | |
|--|---|----|
| Sandy brown surface soil- - | 2 | 2 |
| Reddish-brown sand - - - - | 3 | 5 |
| Brown clay and sand - - - - | 3 | 8 |
| Fine-grained red and gray sand - - - - - | 3 | 11 |
| Brown clay, sand, gravel and rock- - - - - | 8 | 19 |
| Water level, 17.6 feet below top of ground, 24 hours after hole completed. | | |
| Water sample collected. Nov. 18, 1937. | | |

Well 637

Sand dunes, W. M. Mullican tract, NE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 32, blk. B, R. M. Thompson survey, 13 miles west of Hale Center.

| | | |
|---|----|----|
| Sandy surface soil - - - - - | 4 | 4 |
| Gray soil - - - - - | 2 | 6 |
| Caliche and sand- - - - - | 12 | 18 |
| Fine-grained white lime - - - | 8 | 26 |
| Rock - - - - - | - | 26 |
| No water sample collected. Aug. 11, 1937. | | |

Well 638

Sand dunes, W. M. Mullican tract, NE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 32, blk. B, R. M. Thompson survey, 13 miles west of Hale Center.

| | | |
|---|----|----|
| Fine-grained sandy surface soil - - - - - | 10 | 10 |
| Gray soil- - - - - | 8 | 18 |
| Caliche and sand - - - - - | 10 | 28 |
| White lime - - - - - | 6 | 34 |
| Rock - - - - - | - | 34 |
| No water sample collected. Aug. 11, 1937. | | |

Well 742

Flat, Chris Benn tract, SE $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 3, blk. x, 15 miles south of Hale Center.

| | | |
|--|----|----|
| Surface soil - - - - - | 3 | 3 |
| Clay and caliche- - - - - | 11 | 14 |
| Sandy red clay - - - - - | 10 | 24 |
| Caliche and sandstone - - - - | 2 | 26 |
| Yellow sandstone - - - - - | 13 | 39 |
| Rock - - - - - | - | 39 |
| No water sample collected. July 3, 1937. | | |

Well 743

Rolling, A. A. Stephens tract, SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 3, blk. x, 15 miles south of Hale Center.

| | | |
|--|----|----|
| Surface soil - - - - - | 6 | 6 |
| Red clay and caliche - - - - | 9 | 15 |
| Sandy clay and lime- - - - - | 12 | 27 |
| Yellow sandstone and clay- - | 10 | 37 |
| Rock - - - - - | - | 37 |
| No water sample collected. July 6, 1937. | | |

Logs of W. P. A. test wells in Hale County--Continued

| | Thickness (feet) | Depth (feet) |
|--|---------------------|-----------------|
| <u>Well 744</u> | | |
| Floor of canyon, side of county road, SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 4, blk. X, 15 $\frac{1}{2}$ miles south of Hale Center. | | |
| Surface soil - - - - - | 5 | 5 |
| Light-colored sand - - - - - | 4 | 9 |
| White sand - - - - - | 5 | 14 |
| Light-red sand- - - - - | 15 | 29 |
| Sandy white clay- - - - - | 5 | 34 |
| Rock - - - - - | | 34 |
| No water sample collected. July 6, 1937. | | |

| | Thickness (feet) | Depth (feet) |
|---|---------------------|-----------------|
| <u>Well 745</u> | | |
| In draw, J. R. Harrell tract, NE $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 34, blk. A3, E. L. & R. R. R. R. survey, 6 miles southwest of Hale Center. | | |
| Surface soil - - - - - | 14 | 14 |
| Gray clay- - - - - | 3 | 17 |
| Gray sand- - - - - | 2 | 19 |
| Conglomeratic red clay, sand and caliche- - - - - | 10 | 29 |
| No water sample collected. Aug. 13, 1937. | | |

| | Thickness (feet) | Depth (feet) |
|---|---------------------|-----------------|
| <u>Well 746</u> | | |
| In draw, J. R. Harrell tract, NE $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 34, blk. A3, E. L. & R. R. R. R. survey, 6 miles southwest of Hale Center. | | |
| Surface soil - - - - - | 14 | 14 |
| Gray clay- - - - - | 2 | 16 |
| Gray sand- - - - - | 1 | 17 |
| Conglomeratic red clay, sand and caliche - - - - - | 6 | 23 |
| Rock - - - - - | | 23 |
| No water sample collected. Aug. 13, 1937. | | |

| | Thickness (feet) | Depth (feet) |
|---|---------------------|-----------------|
| <u>Well 747</u> | | |
| In draw, J. R. Harrell tract, NW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 34, blk. A3, E. L. & R. R. R. R. survey, 6 miles southwest of Hale Center. | | |
| Surface soil - - - - - | 12 | 12 |
| Gray clay - - - - - | 3 | 15 |
| Gray sand- - - - - | 2 | 17 |
| Conglomeratic clay, sand and caliche- - - - - | 11 | 28 |
| White lime and caliche - - - | 6 | 34 |
| Rock - - - - - | | 34 |
| No water sample collected. Aug. --, 1937. | | |

| | Thickness (feet) | Depth (feet) |
|---|---------------------|-----------------|
| <u>Well 748</u> | | |
| In draw, J. R. Harrell tract, NW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 34, blk. A3, E. L. & R. R. R. R. survey, 6 miles southwest of Hale Center. | | |
| Surface soil - - - - - | 12 | 12 |
| Gray clay - - - - - | 3 | 15 |
| Conglomeratic red clay, sand and caliche- - - - - | 6 | 21 |

| | Thickness (feet) | Depth (feet) |
|---|---------------------|-----------------|
| <u>Well 748--Continued</u> | | |
| Soft white lime rock - - - - | 4 | 25 |
| Red sand - - - - - | 9 | 34 |
| Water sand - - - - - | 10 | 44 |
| Rock - - - - - | | 44 |
| No water sample collected. Aug. --, 1937. | | |

| | Thickness (feet) | Depth (feet) |
|---|---------------------|-----------------|
| <u>Well 863</u> | | |
| Edge of lake, J. P. McFarland tract, SE $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 14, blk. C2, 15 $\frac{1}{2}$ miles south of Hale Center. | | |
| Black surface soil - - - - | 5 | 5 |
| Gray soil - - - - - | 2 | 7 |
| Red clay and sand - - - - - | 5 | 12 |
| Caliche and clay - - - - - | 5 | 17 |
| Red clay- - - - - | 12 | 29 |
| Gray clay and gravel - - - | 5 | 34 |
| Lime rock - - - - - | 2 | 36 |
| Limestone- - - - - | | 36 |
| No water sample collected. June 28, 1937. | | |

| | Thickness (feet) | Depth (feet) |
|--|---------------------|-----------------|
| <u>Well 864</u> | | |
| Flat, M. L. Holland tract, NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 2, blk. PF, 16 miles south of Hale Center. | | |
| Red surface soil - - - - - | 3 | 3 |
| Red clay and caliche - - - | 23 | 26 |
| Sandy red clay - - - - - | 15 | 41 |
| Rock - - - - - | | 41 |
| No water sample collected. June 27, 1937. | | |

| | Thickness (feet) | Depth (feet) |
|---|---------------------|-----------------|
| <u>Well 865</u> | | |
| Flat, side of county road, SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 1, blk. X, 15 miles south of Hale Center. | | |
| Surface soil - - - - - | 3 | 3 |
| Clay and caliche - - - - - | 10 | 13 |
| Yellow sandstone - - - - - | 3 | 16 |
| Red clay and sandstone - - | 6 | 22 |
| Sandy red clay - - - - - | 10 | 32 |
| Rock - - - - - | | 32 |
| No water sample collected. July 1, 1937. | | |

| | Thickness (feet) | Depth (feet) |
|---|---------------------|-----------------|
| <u>Well 866</u> | | |
| Flat, side of county road, SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 7, blk. X, 15 $\frac{1}{2}$ miles south of Hale Center. | | |
| Surface soil - - - - - | 4 | 4 |
| Sandy clay - - - - - | 3 | 7 |
| Red clay and caliche - - - | 15 | 22 |
| Yellow sandstone and clay- | 10 | 32 |
| Rock - - - - - | | 32 |
| No water sample collected. July 1, 1937. | | |

Logs of W. P. A. test wells in Hale County--Continued

| | Thickness (feet) | Depth (feet) |
|---|---------------------|-----------------|
| <u>Well 867</u> | | |
| Flat, Chris Benn tract, SW $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 2, blk. X, 15 miles south of Hale Center. | | |
| Surface soil - - - - - | 4 | 4 |
| Clay and caliche - - - - - | 6 | 10 |
| Red clay and caliche - - - - - | 12 | 22 |
| Yellowish-gray sandstone - - - - - | 10 | 32 |
| Rock - - - - - | | 32 |
| No water sample collected. July 3, 1937. | | |

| | Thickness (feet) | Depth (feet) |
|--|---------------------|-----------------|
| <u>Well 868</u> | | |
| Bed of lake, side of Highway 9, NW $\frac{1}{4}$ sec. 9, blk. C2, 13 miles south of Hale Center. Log is test 10 of 19 holes. | | |
| Surface soil - - - - - | 6 | 6 |
| Gray clay - - - - - | 4 | 10 |
| Yellow clay - - - - - | 15 | 25 |
| Sandy red clay - - - - - | 22 | 47 |
| No water sample collected. July 19, 1937. | | |

Partial analyses of water from wells in Hale 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. Stulken, D. F. Riddell, H. T. Davidson, Floyd H. Ward, and F. G. Steer, Chemists; and J. A.

Harmaza, Martin Wieland, and Jack Ramsey, Assistant Chemists. Nitrate determined by E. W. Lohr, U. S.

Geological Survey. Results are in parts per million. Well numbers correspond to numbers in table of well records.)

| Well No. | Owner | Depth of well (ft.) | Date of collection | Total dissolved solids (calculated) | Calcium (Ca) | Magnesium (Mg) | Sodium and Potassium (Na + K) (calculated) | Bicarbonate (HCO ₃) | Sulfate (SO ₄) | Chloride (Cl) | Nitrate (NO ₃) | Total hardness as CaCO ₃ (calculated) |
|----------|---------------------------|---------------------|--------------------|-------------------------------------|--------------|----------------|--|---------------------------------|----------------------------|---------------|----------------------------|--|
| 1 | E. C. Abernathy | 185 | Nov. 30, 1937 | 289 | 66 | 27 | 7 | 293 | 29 | 16 | a/ | 277 |
| 21 | Kansas City Life Ins. Co. | 83 | Oct. 11, 1937 | 406 | - | - | - | 323 | 50 | 45 | a/ | - |
| 22 | E. D. Smith | 95 | do. | 313 | - | - | - | 281 | 29 | 27 | a/ | - |
| 31 | Westside School | 50 | Oct. 18, 1937 | 330 | 58 | 43 | 4 | 262 | 54 | 42 | a/ | 322 |
| 39 | W. L. Hurt | 61 | Nov. 6, 1937 | 575 | 78 | 63 | 36 | 305 | 146 | 78 | 24 | 454 |
| 40 | J. A. Johnson | 84 | do. | 402 | - | - | - | 317 | 46 | 49 | a/ | - |
| 124 | J. F. Watson | 69 | July 23, 1937 | 454 | 70 | 58 | 18 | 281 | 36 | 125 | a/ | 411 |
| 126 | Runningwater School | - | Nov. 30, 1937 | 497 | 54 | 27 | 103 | 415 | 61 | 43 | a/ | 247 |
| 215 | C. I. Keisling | 200 | Sept. 13, 1937 | 344 | 60 | 27 | 37 | 348 | 29 | 20 | a/ | 262 |
| 222 | C. B. White | 227 | do. | 346 | 66 | 35 | 19 | 329 | 39 | 25 | a/ | 305 |
| 247 | C. T. Douglas | 150 | Dec. 7, 1937 | 337 | 56 | 33 | 28 | 305 | 36 | 34 | a/ | 275 |
| 253 | Southland Life Ins. Co. | - | Apr. 27, 1936 | 975 | 81 | 78 | 144 | 250 | 307 | 196 | 46 | 526 |
| 256 | R. M. Malone | - | do. | 481 | - | - | - | 342 | 79 | 57 | a/ | - |
| 260 | do. | 30 | Aug. 25, 1937 | 614 | - | - | - | 561 | 48 | 52 | a/ | - |
| 266 | Julia C. Crawford | 51 | Oct. 28, 1937 | 539 | 81 | 61 | 26 | 317 | 120 | 78 | a/ | 452 |
| 267 | -- Heffelfinger | 56 | do. | 317 | - | - | - | 299 | 29 | 17 | a/ | - |
| 268 | Mrs. J. W. Ray | 70 | do. | 495 | - | - | - | 275 | 84 | 84 | a/ | - |
| 270 | T. L. & D. Co. | 70 | Nov. 9, 1937 | 287 | - | - | - | 256 | 31 | 21 | a/ | - |
| 271 | do. | 70 | do. | 273 | - | - | - | 250 | 24 | 22 | a/ | - |
| 272 | City of Plainview well 1 | 301 | Dec. 9, 1937 | 333 | 56 | 36 | 23 | 336 | 32 | 21 | a/ | 287 |
| 300 | T. L. & D. Co. | 100 | Nov. 8, 1937 | 260 | - | - | - | 268 | 12 | 15 | a/ | - |
| 311 | do. | 271 | June 3, 1937 | 330 | 62 | 26 | 31 | 329 | 29 | 20 | a/ | 261 |
| 315 | Liberty School | - | Dec. 7, 1937 | 376 | 70 | 42 | 15 | 366 | 47 | 20 | a/ | 346 |
| 324 | F. V. Brasher | - | May 5, 1936 | 437 | - | - | - | 329 | 43 | 68 | a/ | - |
| 348 | -- Brown | 255 | Dec. 7, 1937 | 356 | 49 | 29 | 51 | 354 | 30 | 23 | a/ | 243 |
| 382 | G. W. Lewellyn | 52 | Oct. 20, 1937 | 387 | 49 | 65 | 13 | 464 | 18 | 14 | a/ | 390 |
| 384 | Texas Land & Mortgage Co. | 46 | do. | 435 | - | - | - | 329 | 59 | 52 | a/ | - |

a/ Nitrate less than 20 parts per million.

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

| Well No. | Owner | Depth of well (ft.) | Date of collection | Total dissolved solids (calculated) | Calcium (Ca) | Magnesium (Mg) | Sodium and Potassium (Na / K) (calculated) | Bicarbonate (HCO ₃) | Sulfate (SO ₄) | Chloride (Cl) | Nitrate (NO ₃) | Total hardness as CaCO ₃ (calculated) |
|----------|-----------------------|---------------------|--------------------|-------------------------------------|--------------|----------------|--|---------------------------------|----------------------------|---------------|----------------------------|--|
| 385 | L. M. Faulkner | 65 | Oct. 22, 1937 | 520 | 62 | 60 | 40 | 262 | 84 | 112 | 33 | 401 |
| 386 | -- Hoffman | 64 | do. | 275 | 46 | 37 | 5 | 281 | 12 | 11 | 26 | 268 |
| 387 | W. A. Lowe | 49 | do. | 468 | 132 | 5 | 39 | 390 | 40 | 46 | a/ | 353 |
| 388 | H. C. Hoyle | 50 | Oct. 26, 1937 | 402 | - | - | - | 354 | 37 | 31 | a/ | - |
| 390 | Federal Life Ins. Co. | - | Nov. 12, 1937 | 395 | 54 | 45 | 33 | 342 | 54 | 34 | a/ | 318 |
| 391 | Prairie View School | - | Dec. 6, 1937 | 358 | 57 | 41 | 20 | 293 | 57 | 39 | a/ | 310 |
| 416 | Eula Lane | 60 | Oct. 20, 1937 | 329 | 64 | 40 | 4 | 268 | 33 | 56 | a/ | 324 |
| 438 | Clarence Stalcup | - | May 1, 1936 | 404 | - | - | - | 323 | 43 | 50 | a/ | - |
| 451 | R. W. Burchardt | - | May 5, 1936 | 335 | - | - | - | 329 | 28 | 17 | a/ | - |
| 469 | Frank Beard | - | do. | 408 | 37 | 44 | 58 | 317 | 57 | 56 | a/ | 272 |
| 471 | F. M. Daugherty | - | June 16, 1936 | 345 | 56 | 34 | 31 | 342 | 32 | 24 | a/ | 281 |
| 480 | T. L. & D. Co. | - | Oct. 20, 1937 | 470 | - | - | - | 281 | 55 | 92 | a/ | - |
| 481 | Will Castleberry | 59 | Oct. 27, 1937 | 365 | - | - | - | 305 | 37 | 40 | a/ | - |
| 485 | Sam Young | 50 | Nov. 13, 1937 | 240 | 34 | 20 | 28 | 177 | 46 | 25 | a/ | 167 |
| 486 | Bellview School | 51 | do. | 398 | 69 | 44 | 21 | 360 | 54 | 33 | a/ | 352 |
| 487 | W. L. Whitt | 57 | Nov. 16, 1937 | 596 | 56 | 82 | 52 | 488 | 108 | 48 | a/ | 475 |
| 489b | W. P. A. test | 22 | Nov. 29, 1937 | 260 | 36 | 17 | 27 | 134 | 24 | 20 | 70 | 161 |
| 489c | do. | 16 | Nov. 30, 1937 | 233 | 66 | 17 | - | 220 | 20 | 22 | a/ | 236 |
| 489d | do. | 22 | Nov. 29, 1937 | 274 | 42 | 24 | 20 | 195 | 24 | 16 | 52 | 205 |
| 491 | do. | 12 | Dec. 4, 1937 | - | - | - | - | - | 18 | 7 | - | - |
| 492 | do. | 10 | Dec. 4, 1937 | 256 | 82 | 5 | 2 | 207 | 14 | 4 | 47 | 224 |
| 493b | do. | 22 | Aug. 30, 1937 | 373 | 52 | 32 | 43 | 305 | 32 | 32 | 32 | 260 |
| 494a | do. | 30 | Oct. 19, 1937 | 351 | 77 | 50 | - | 348 | 17 | 36 | a/ | 396 |
| 494c | do. | 30 | Oct. 20, 1937 | 385 | - | - | - | 415 | 16 | 6 | a/ | - |
| 494e | do. | 27 | Oct. 26, 1937 | - | - | - | - | - | 37 | 6 | a/ | - |
| 494g | do. | 33 | Oct. 21, 1937 | 349 | 32 | 53 | 28 | 348 | 40 | 20 | a/ | 298 |
| 494l | do. | 27 | Nov. 1, 1937 | 373 | 32 | 53 | 30 | 262 | 73 | 46 | a/ | 298 |
| 494m | do. | 31 | Nov. 13, 1937 | 312 | - | - | - | 244 | 35 | 40 | a/ | - |
| 495b | do. | 12 | do. | 154 | 32 | 5 | 20 | 140 | 20 | 8 | a/ | 103 |
| 495c | do. | 12 | Nov. 16, 1937 | 1,133 | 37 | 34 | 348 | 671 | 282 | 102 | a/ | 231 |
| 495d | do. | 9 | do. | 296 | - | - | - | 305 | 20 | 11 | a/ | - |
| 495e | do. | 19 | Nov. 18, 1937 | 384 | - | - | - | 305 | 46 | 29 | a/ | - |
| 496 | East Mound School | 49 | Dec. 6, 1937 | 396 | 63 | 44 | 25 | 275 | 43 | 86 | a/ | 337 |
| 500 | O. M. Stidham | - | June 15, 1937 | 443 | - | - | - | 305 | 72 | 58 | a/ | - |
| 518 | Mrs. R. W. Branham | 77 | July 26, 1937 | - | - | - | - | - | 64 | 56 | a/ | - |

a/ Nitrate less than 20 parts per million.

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

| Well No. | Owner | Depth of well (ft.) | Date of collection | Total dissolved solids (calculated) | Calcium (Ca) | Magnesium (Mg) | Sodium and Potassium (Na / K) (calculated) | Bicarbonate (HCO ₃) | Sulphate (SO ₄) | Chloride (Cl) | Nitrate (NO ₃) | Total hardness as CaCO ₃ (calculated) |
|----------|---------------------------|---------------------|--------------------|-------------------------------------|--------------|----------------|--|---------------------------------|-----------------------------|---------------|----------------------------|--|
| 533 | Bob Iouthan | - | May 12, 1936 | 574 | - | - | - | 305 | 43 | 168 | a/ | - |
| 558 | C. L. Barnes | - | Apr. 24, 1937 | 357 | - | - | - | 268 | 57 | 36 | a/ | - |
| 567 | J. B. Maxey | - | Apr. 26, 1937 | 386 | 45 | 51 | 69 | 397 | 15 | 11 | a/ | 322 |
| 573 | City of Hale Center | 123 | Dec. 8, 1937 | 366 | 63 | 45 | 18 | 354 | 36 | 30 | a/ | 343 |
| 601 | C. M. Wilson | 180 | Oct. 18, 1937 | 269 | - | - | - | 232 | 36 | 18 | a/ | - |
| 607 | Halfway School | 87 | Aug. 17, 1937 | 340 | 69 | 29 | 22 | 329 | 32 | 26 | a/ | 293 |
| 620 | Fred Butler | 60 | Aug. 12, 1937 | 538 | - | - | - | 372 | 85 | 58 | a/ | - |
| 622 | W. E. Cannon | 200 | Oct. 19, 1937 | 316 | 44 | 47 | 11 | 317 | 36 | 22 | a/ | 304 |
| 623 | Sunshine School | 68 | Oct. 11, 1937 | 341 | 64 | 49 | - | 378 | 32 | 10 | a/ | 360 |
| 625 | W. M. Mullican | - | Aug. 11, 1937 | 674 | 70 | 69 | 59 | 275 | 253 | 44 | 44 | 457 |
| 627 | G. & R. Moody | - | Dec. 7, 1937 | 359 | - | - | - | 360 | 29 | 15 | a/ | - |
| 628 | H. L. Faith | 78 | Aug. 16, 1937 | 405 | - | - | - | 323 | 55 | 40 | a/ | - |
| 629 | Mayfield School | 81 | Aug. 12, 1937 | 311 | 40 | 50 | 8 | 311 | 43 | 17 | a/ | 306 |
| 639 | Center Plains School | - | Dec. 7, 1937 | 444 | 60 | 49 | 39 | 354 | 72 | 50 | a/ | 350 |
| 701 | L. P. Bennett | 246 | Aug. 11, 1937 | 363 | 68 | 40 | 9 | 305 | 55 | 22 | a/ | 335 |
| 706 | T. C. Dyar | 276 | do. | 352 | - | - | - | 281 | 47 | 21 | a/ | - |
| 707 | John Schoonvelt | 200 | Aug. 10, 1937 | 392 | 39 | 48 | 39 | 305 | 82 | 30 | a/ | 295 |
| 710 | M. K. Fisher | 200 | Aug. 12, 1937 | 353 | 58 | 48 | 6 | 323 | 59 | 23 | a/ | 345 |
| 715 | Wiley Bogart | 97 | July 29, 1937 | 904 | 90 | 105 | 65 | 268 | 272 | 240 | a/ | 701 |
| 716 | do. | 85 | July 28, 1937 | 333 | - | - | - | 232 | 51 | 45 | a/ | - |
| 717 | N. J. Walker | 220 | Aug. 10, 1937 | 417 | - | - | - | 311 | 70 | 40 | a/ | - |
| 718 | Mrs. H. D. Johnson | 210 | July 27, 1937 | 332 | - | - | - | 287 | 32 | 33 | a/ | - |
| 720 | R. V. Hand | 26 | do. | 684 | 50 | 83 | 87 | 403 | 136 | 130 | a/ | 466 |
| 721 | L. F. Thompson | 230 | Aug. 10, 1937 | 418 | 64 | 41 | 33 | 311 | 85 | 42 | a/ | 330 |
| 722 | do. | 220 | do. | 323 | - | - | - | 268 | 51 | 20 | a/ | - |
| 723 | do. | 235 | do. | 256 | 28 | 31 | 26 | 232 | 39 | 18 | a/ | 199 |
| 725 | Elbert Brown | 92 | July 28, 1937 | 384 | - | - | - | 293 | 59 | 39 | a/ | - |
| 727 | Otey Shadden | 237 | July 29, 1937 | 423 | - | - | - | 329 | 71 | 34 | a/ | - |
| 728 | William Albers | 92 | do. | 462 | 80 | 40 | 37 | 348 | 78 | 56 | a/ | 365 |
| 730 | W. T. Webb | - | July 28, 1937 | 349 | 45 | 44 | 20 | 207 | 78 | 60 | a/ | 292 |
| 731 | J. C. Waggoner | 110 | July 27, 1937 | 369 | - | - | - | 305 | 51 | 30 | a/ | - |
| 732 | W. V. Chapman | 140 | July 26, 1937 | 388 | - | - | - | 305 | 51 | 42 | - | - |
| 735 | Mrs. Adele Brickley | 132 | do. | 390 | 40 | 49 | 26 | 214 | 78 | 92 | a/ | 300 |
| 736 | Continental National Bank | 100 | July 27, 1937 | - | - | - | - | - | 67 | 42 | - | - |

a/ Nitrate less than 20 parts per million.

Partial analyses of water from wells in Hale County--Continued

Results are in parts per million

| Well No. | Owner | Depth of well (ft.) | Date of collection | Total dissolved solids (calculated) | Calcium (Ca) | Magnesium (Mg) | Sodium and Potassium (Na / K) (calculated) | Bicarbonate (HCO ₃) | Sulphate (SO ₄) | Chloride (Cl) | Nitrate (NO ₃) | Total hardness as CaCO ₃ (calculated) |
|----------|--------------------------------|---------------------|--------------------|-------------------------------------|--------------|----------------|--|---------------------------------|-----------------------------|---------------|----------------------------|--|
| 737 | Mrs. Adele Brickley | - | July 26, 1937 | 403 | - | - | - | 311 | 63 | 38 | - | - |
| 739 | S. L. Eason | 320 | do. | 784 | 71 | 44 | 154 | 268 | 183 | 200 | a/ | 357 |
| 740 | Lee Irish | - | do. | 474 | - | - | - | 329 | 82 | 56 | - | - |
| 749 | Cotton Center School | - | Dec. 7, 1937 | 345 | 58 | 41 | 14 | 305 | 50 | 32 | a/ | 316 |
| 801 | J. H. Hooker | 100 | Oct. 9, 1937 | 481 | - | - | - | 372 | 93 | 28 | a/ | - |
| 802 | O. T. Swenson | 56 | do. | 428 | - | - | - | 317 | 82 | 33 | a/ | - |
| 803 | Arthur Ford | 67 | do. | 365 | - | - | - | 299 | 47 | 34 | a/ | - |
| 805 | A. K. Price | 70 | do. | 549 | 60 | 56 | 62 | 281 | 108 | 114 | a/ | 379 |
| 818 | Guy Hausour | - | Apr. 26, 1937 | 588 | - | - | - | 329 | 139 | 73 | a/ | - |
| 820 | H. L. Gunter | - | do. | 519 | - | - | - | 366 | 96 | 53 | a/ | - |
| 827 | Iowa Ave. School | 85 | July 26, 1937 | 378 | 54 | 39 | 38 | 354 | 43 | 30 | a/ | 294 |
| 828 | G. W. Bigler | 218 | Aug. 10, 1937 | 358 | - | - | - | 323 | 47 | 17 | a/ | - |
| 832 | Earlton Harp | 233 | July 28, 1937 | 385 | 45 | 28 | 67 | 360 | 47 | 21 | a/ | 227 |
| 845 | J. A. Lutrick | 200 | Oct. 18, 1937 | 348 | - | - | - | 311 | 47 | 17 | a/ | - |
| 849 | Texas-New Mexico Utilities Co. | 267 | Aug. 2, 1937 | 309 | - | - | - | 232 | 51 | 30 | a/ | - |
| 850 | do. | 182 | do. | 378 | - | - | - | 287 | 59 | 38 | a/ | - |
| 854 | B. F. & F. W. Struve | 464 | July 23, 1937 | - | - | - | - | - | 59 | 25 | - | - |
| 855 | W. A. Waters | 210 | do. | 394 | 54 | 37 | 45 | 348 | 59 | 28 | a/ | 286 |
| 857 | T. E. Lutrick | 200 | Aug. 2, 1937 | 371 | - | - | - | 281 | 71 | 26 | a/ | - |
| 860 | J. H. Reed | 90 | Nov. 5, 1937 | 346 | - | - | - | 305 | 31 | 29 | a/ | - |
| 861 | H. C. Tucker | 120 | do. | 359 | - | - | - | 244 | 42 | 60 | a/ | - |
| 862 | Mrs. S. R. Merrill | 95 | do. | 413 | 45 | 52 | 33 | 244 | 81 | 82 | a/ | 327 |
| 921 | Chas. Wendt | - | May 6, 1936 | 592 | - | - | - | 317 | 82 | 138 | a/ | - |
| 929 | J. A. Line | - | May 7, 1936 | 374 | 38 | 41 | 50 | 354 | 43 | 28 | a/ | 266 |
| 949 | -- Faulkner | 71 | May 8, 1936 | 483 | 76 | 49 | 35 | 342 | 89 | 66 | a/ | 390 |
| 965 | Mrs. W. M. Featherstone | 199 | Aug. 3, 1937 | 395 | - | - | - | 323 | 51 | 37 | - | - |
| 966 | E. M. Carmickle | 175 | Aug. 6, 1937 | 421 | 110 | - | 53 | 366 | 51 | 27 | a/ | 275 |
| 967 | Bob Mayo | 179 | Aug. 2, 1937 | 375 | - | - | - | 323 | 51 | 24 | - | - |
| 969 | B. A. Jefferies | 180 | Aug. 3, 1937 | 446 | - | - | - | 293 | 118 | 25 | a/ | - |
| 972 | V. T. Hildreth | 280 | Sept. 10, 1937 | 325 | 10 | 32 | 73 | 281 | 47 | 25 | a/ | 157 |
| 973 | Glenn Gamble | 200 | Aug. 2, 1937 | 436 | 38 | 39 | 76 | 342 | 59 | 56 | a/ | 254 |
| 974 | W. J. Pierson | 228 | July 23, 1937 | 373 | - | - | - | 329 | 51 | 20 | - | - |

a/ Nitrate less than 20 parts per million.

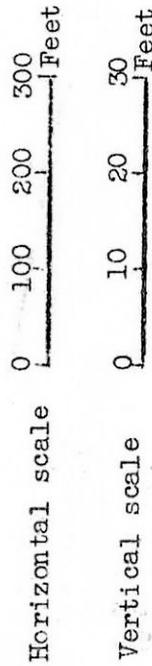
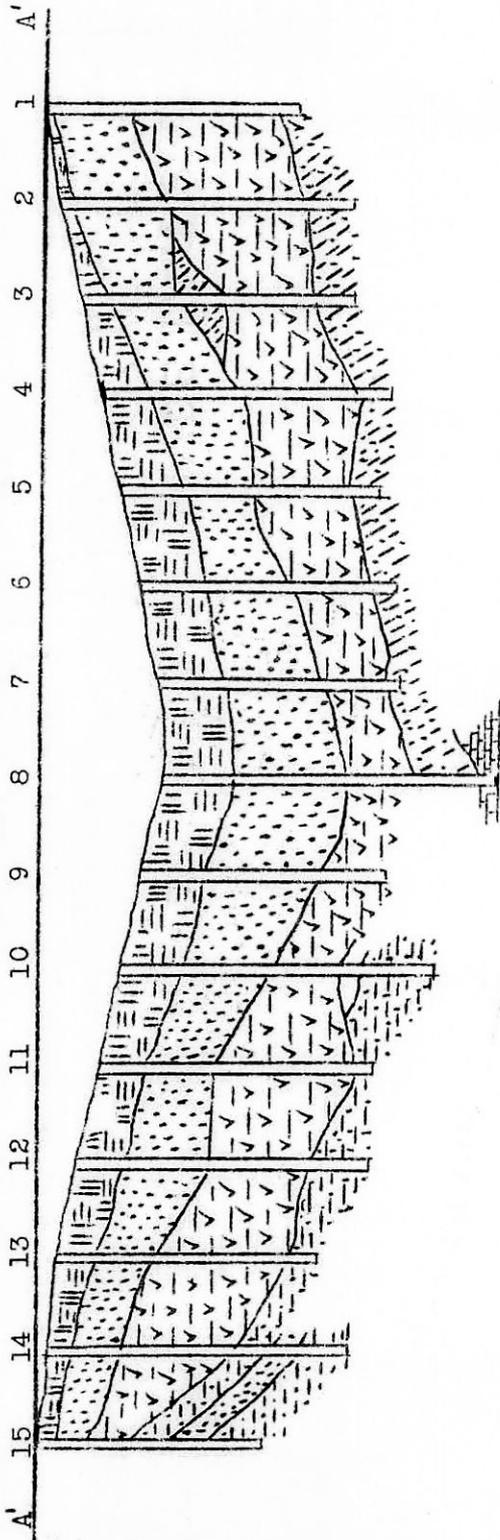
Partial analyses of water from wells in Hale County--Continued

Results are in parts per million.

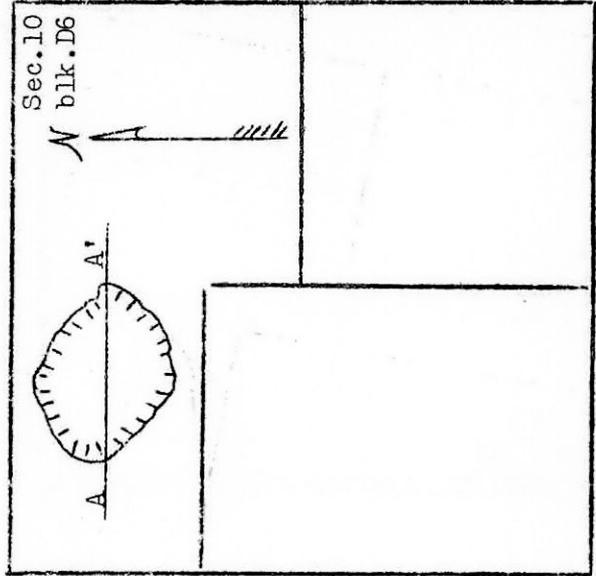
| Well No. | Owner | Depth of well (ft.) | Date of collection | Total dissolved solids (calculated) | Calcium (Ca) | Magnesium (Mg) | Sodium and Potassium (Na / K) (calculated) | Bicarbonate (HCO ₃) | Sulfate (SO ₄) | Chloride (Cl) | Nitrate (NO ₃) | Total hardness as CaCO ₃ (calculated) |
|----------|------------------|---------------------|--------------------|-------------------------------------|--------------|----------------|--|---------------------------------|----------------------------|---------------|----------------------------|--|
| 975 | W. A. Mahagan | 224 | July 23, 1937 | 414 | - | - | - | 372 | 55 | 20 | - | - |
| 976 | W. I. Pierson | 216 | do. | 336 | - | - | - | 262 | 59 | 24 | - | - |
| 977 | H. S. Leon | 211 | do. | 384 | 56 | 33 | 46 | 354 | 55 | 20 | a/ | 275 |
| 978 | A. W. Jackson | 200 | Aug. 3, 1937 | 379 | 36 | 34 | 64 | 354 | 51 | 20 | a/ | 231 |
| 979 | J. W. Allen | 200 | Aug. 2, 1937 | 403 | - | - | - | 329 | 63 | 28 | a/ | - |
| 980 | Mrs. C. R. Logan | 201 | do. | 375 | - | - | - | 336 | 51 | 18 | a/ | - |
| 981 | J. J. Culp | 158 | do. | 305 | - | - | - | 250 | 51 | 18 | a/ | - |

a/ Nitrate less than 20 parts per million.

SECTION A-A' COMPILED FROM 15 TEST WELLS

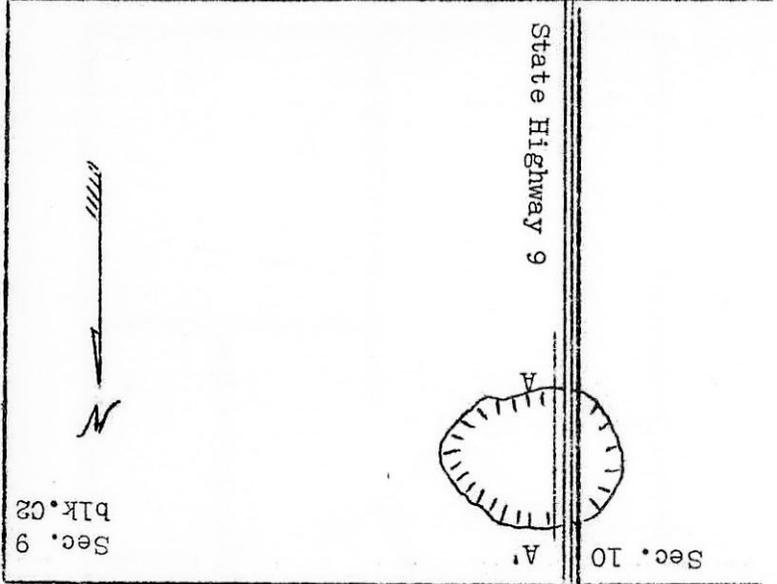
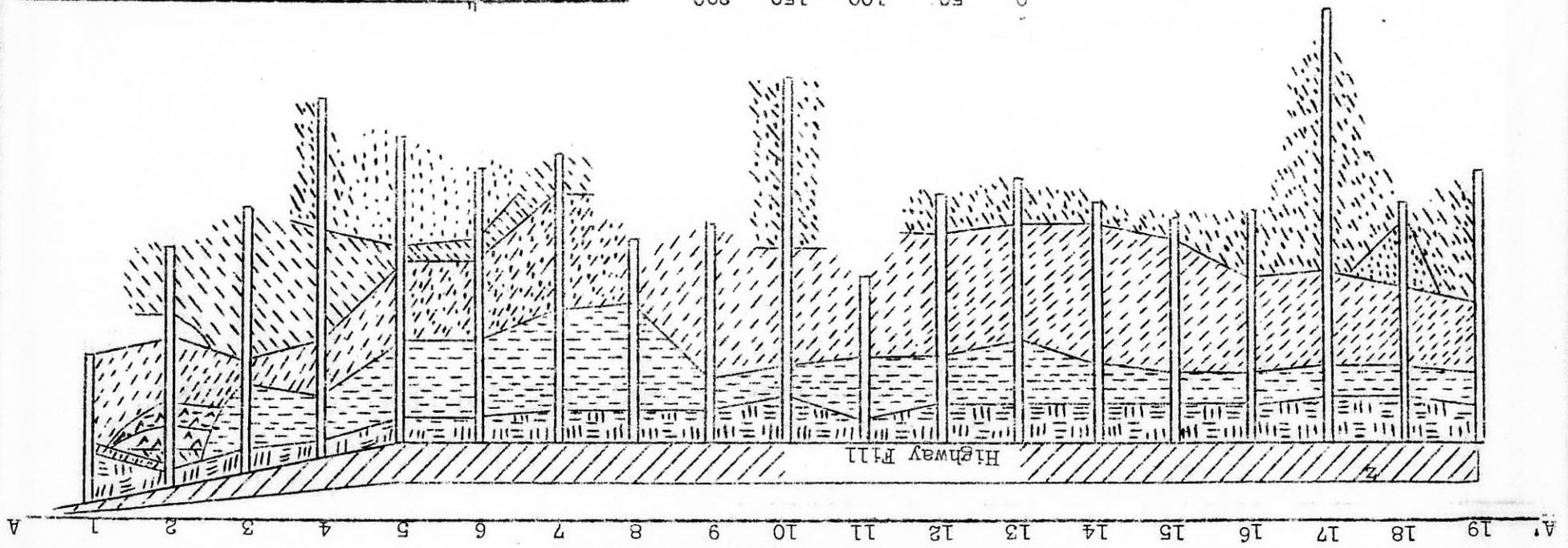


- Surface soil
- Gray sand
- Gray clay and sand
- Pink clay and sand
- Clay and caliche
- Rock



GROUP 494
 W. P. A. TEST WELLS SHOWING CROSS SECTION
 ACROSS DRY LAKE IN SEC. 10, BLK. D6. 13 1/2
 MILES NORTHEAST OF HALE CENTER.

SECTION A-A' COMPILED FROM 19 TEST WELLS



Horizontal scale
0 50 100 150 200 Feet

Vertical scale
0 10 20 30 Feet

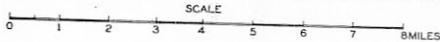
- Sandy Yellow clay
- Surface soil
- Gray clay
- Yellow clay
- Red clay
- Sandy red clay
- Caliche
- Clay and caliche
- Yellow sand

GROUP 868
W. P. A. TEST WELLS SHOWING CROSS SECTION
ACROSS DRY LAKE IN SECS. 9 & 10, BLK. C2,
1/2 MILES SOUTH OF HALE CENTER.

Sec. 9
blk. C2

MAP OF HALE COUNTY TEXAS SHOWING LOCATIONS OF WATER WELLS LISTED

- EXPLANATION -
- WELL WITH HAND PUMP, BUCKET OR BALER
 - ◊ WELL WITH WINDMILL OR SMALL POWER PUMP
 - ⊕ WELL WITH PUMPING PLANT - 5 HORSE POWER OR LARGER
 - ◇ UNUSED WELL
 - ⊕ WELL DRILLED TO TEST FOR OIL OR GAS
 - ⊕ TEST WELL DRILLED BY W.P.A. LABOR
 - IMPROVED ROAD
 - - - UNIMPROVED ROAD
 - OBSERVATION LAKE



FIELD WORK BY
W.L. BROADHURST, C.R. FOLLETT, J.W. LANG,
B.G. BRIGANCE AND G.H. SHAFER

BASE COMPILED FROM
LAND OWNERSHIP MAP
AND FIELD NOTES

GEOLOGICAL SURVEY
U.S. DEPARTMENT OF THE INTERIOR
COOPERATING WITH
TEXAS BOARD OF WATER ENGINEERS
AND
WORKS PROGRESS ADMINISTRATION

