

TEXAS BOARD OF WATER ENGINEERS

Durwood Manford, Chairman
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BULLETIN 6005

WATER-LEVEL MEASUREMENTS
IN
CULBERSON, HUDSPETH, AND JEFF DAVIS COUNTIES,
TEXAS

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Texas Board of Water Engineers

Prepared in cooperation with the Geological Survey
United States Department of the Interior

April 1960

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W A T E R - L E V E L M E A S U R E M E N T S I N C U L B E R S O N ,
H U D S P E T H , A N D J E F F D A V I S C O U N T I E S ,
T E X A S

INTRODUCTION

Periodic measurements of water levels are made in selected observation wells throughout the state as a part of an observation well program conducted cooperatively by the Texas Board of Water Engineers and the U. S. Geological Survey to evaluate the effects of ground-water development in relation to available supply.

This bulletin contains water-level measurements made in 45 wells in Culberson County, 20 wells in Hudspeth County, and 8 wells in Jeff Davis County. With the exception of 1959, these measurements were made from 1955 through 1960.

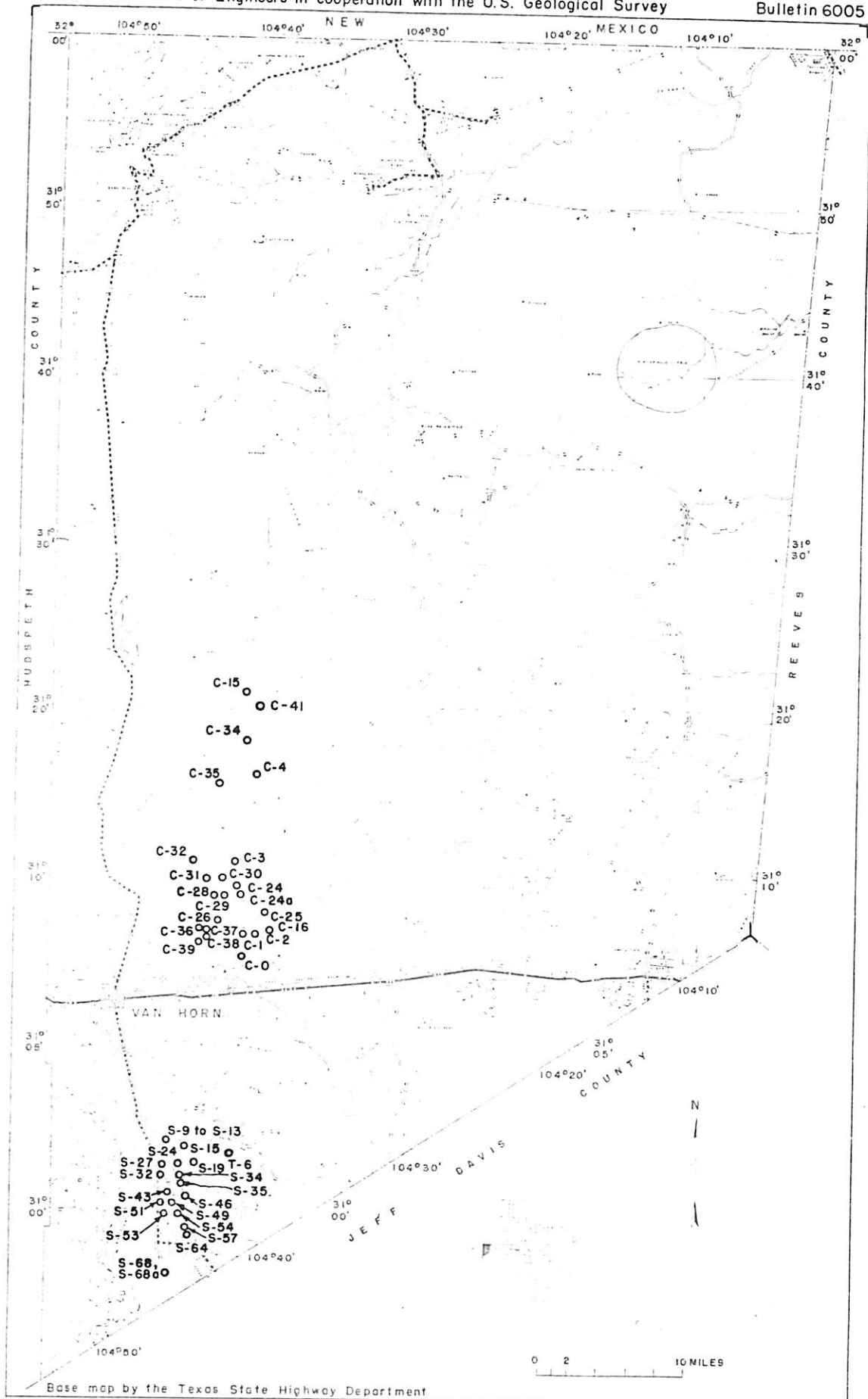
An observation well location map faces the corresponding table of water-level measurements for each county.

CULBERSON COUNTY, WATER-LEVEL MEASUREMENTS

January water levels, in feet below land-surface datum

| Well | 1955 | 1956 | 1957 | 1958 | 1959 | 1960 |
|------------------|--------|--------|---------|--------|------|--------|
| Wildhorse Valley | | | | | | |
| C-0 | 223.00 | 224.21 | 227.80 | 231.46 | -- | 233.32 |
| C-1 | 218.80 | 220.70 | -- | -- | -- | -- |
| C-2 | 222.48 | 223.24 | -- | 226.23 | -- | -- |
| C-3 | 154.03 | 156.22 | 156.59 | 158.03 | -- | 159.60 |
| C-4 | 138.05 | 138.24 | -- | -- | -- | 138.92 |
| C-15 | 255.08 | -- | -- | -- | -- | -- |
| C-16 | 224.18 | 225.80 | -- | -- | -- | 231.55 |
| C-24 | 176.77 | 178.11 | 178.10 | 179.93 | -- | 181.80 |
| C-24a | 174.14 | 175.36 | 176.82 | 178.21 | -- | 180.00 |
| C-25 | 201.55 | 202.84 | 204.36 | 205.20 | -- | 214.64 |
| C-26 | 200.22 | 201.65 | -- | 204.61 | -- | 209.15 |
| C-28 | 181.86 | -- | -- | -- | -- | -- |
| C-29 | 180.18 | 181.52 | 182.86 | 185.13 | -- | 187.35 |
| C-30 | 166.38 | 168.00 | 169.30 | 170.43 | -- | 172.70 |
| C-31 | 179.56 | 180.97 | 182.54 | -- | -- | 183.75 |
| C-32 | 210.06 | 211.24 | -- | -- | -- | 215.86 |
| C-34 | 154.23 | 153.90 | -- | -- | -- | 154.20 |
| C-35 | 131.91 | 131.96 | -- | -- | -- | 134.70 |
| C-36 | 215.62 | 217.30 | 218.53 | 219.71 | -- | 221.75 |
| C-37 | 214.30 | 215.77 | 217.30 | -- | -- | 220.77 |
| C-38 | 219.90 | 221.58 | 223.03 | 224.65 | -- | -- |
| C-39 | 223.38 | 225.22 | 226.70 | -- | -- | 229.48 |
| C-41 | 224.58 | 225.67 | -- | -- | -- | 229.80 |
| Lobo Flats Area | | | | | | |
| S-9 | 117.11 | -- | 106.18 | 109.38 | -- | -- |
| S-10 | 152.79 | 156.69 | 158.33 | 162.69 | -- | 167.75 |
| S-11 | 152.14 | 155.69 | -- | 158.88 | -- | 183.30 |
| S-12 | 154.89 | 158.54 | 163.57 | 168.93 | -- | 180.10 |
| S-13 | 156.98 | 160.82 | 165.97 | -- | -- | 182.15 |
| S-15 | 147.45 | 157.3 | -- | -- | -- | -- |
| S-19 | 139.48 | 148.20 | 156.30 | 164.75 | -- | -- |
| S-24 | 132.70 | 139.52 | 151.01 | 155.23 | -- | 172.45 |
| S-27 | -- | 145.3 | 151.20 | -- | -- | -- |
| S-32 | 148.70 | 153.41 | c176.98 | 165.54 | -- | -- |
| S-34 | 136.82 | -- | -- | -- | -- | 169.00 |
| S-35 | 142.12 | 148.95 | 156.95 | -- | -- | -- |
| S-43 | 146.57 | 155.08 | 163.58 | 171.71 | -- | 184.35 |
| S-46 | 118.22 | 124.46 | 131.30 | 136.66 | -- | 144.20 |
| S-49 | 152.22 | 160.14 | 168.20 | 176.44 | -- | 187.10 |
| S-51 | -- | -- | -- | 91.16 | -- | -- |
| S-53 | 125.87 | 133.65 | 143.20 | 147.73 | -- | 156.90 |
| S-54 | 124.03 | 129.86 | 136.68 | 142.14 | -- | 146.20 |
| S-57 | 137.82 | 143.06 | 149.51 | 155.98 | -- | -- |
| S-64 | 137.13 | 141.73 | -- | -- | -- | -- |
| S-68 | 138.70 | 142.40 | 147.78 | 151.25 | -- | 155.10 |
| S-68a | 140.42 | 143.95 | 148.61 | 153.10 | -- | 172.10 |
| T-6 | 280.80 | -- | -- | 291.33 | -- | -- |

c Nearby well pumping



Base map by the Texas State Highway Department

OBSERVATION WELLS IN CULBERSON COUNTY, TEXAS

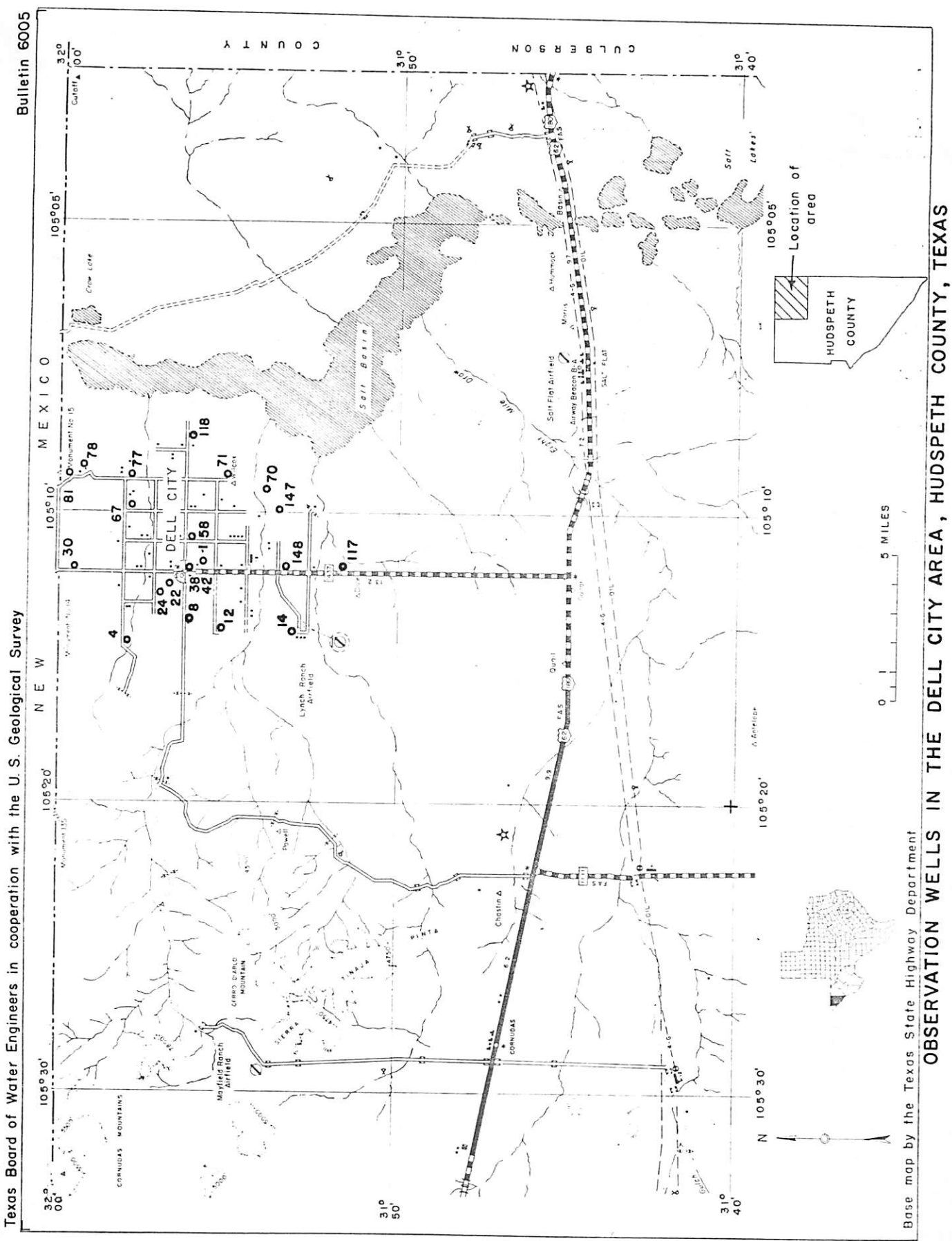
360
 3.32
 9.60
 3.92
 1.55
 1.80
 0.00
 4.64
 9.15
 7.35
 2.70
 3.75
 5.86
 4.20
 4.70
 1.75
 0.77
 9.48
 9.80
 7.75
 3.30
 0.10
 2.15
 4.45
 0.00
 0.35
 0.20
 0.10
 0.90
 0.20
 0.10
 0.10

HUDSPETH COUNTY, WATER-LEVEL MEASUREMENTS

January water levels, in feet below land-surface datum

| Well | 1955 | 1956 | 1957 | 1958 | 1959 | 1960 |
|------|--------|--------|--------|--------|------|--------|
| 4 | 187.41 | 188.53 | 190.23 | 193.22 | -- | 195.48 |
| 8 | 140.35 | 141.53 | 142.76 | 145.80 | -- | 147.19 |
| 12 | 150.45 | 151.78 | 152.64 | 155.42 | -- | 157.16 |
| 14 | -- | 168.34 | -- | -- | -- | -- |
| 22 | 97.33 | 99.48 | -- | -- | -- | -- |
| 24 | 119.45 | 121.08 | 121.78 | 124.57 | -- | 126.75 |
| 30 | 101.40 | 102.80 | 103.63 | 107.00 | -- | -- |
| 38 | 85.46 | 87.66 | 88.90 | 91.00 | -- | 93.12 |
| 42 | 73.13 | -- | 78.08 | 80.85 | -- | 83.60 |
| 58 | 58.60 | 64.07 | 60.59 | 62.95 | -- | 66.05 |
| 67 | 37.50 | 38.79 | 40.02 | 42.55 | -- | 44.56 |
| 70 | 25.83 | 26.68 | 28.63 | 30.22 | -- | -- |
| 71 | 23.55 | 24.75 | 32.29 | 34.85 | -- | -- |
| 77 | 34.66 | 36.09 | 37.14 | 39.50 | -- | 41.44 |
| 78 | 31.72 | 32.73 | 34.16 | 36.63 | -- | -- |
| 81 | 57.30 | 58.34 | -- | 62.29 | -- | 64.58 |
| 117 | 96.46 | 97.62 | 98.95 | -- | -- | -- |
| 118 | 18.58 | 19.85 | 20.44 | 21.80 | -- | 23.00 |
| 147 | 34.24 | 37.27 | 38.64 | 41.94 | -- | -- |
| 148 | 70.35 | 71.83 | 73.00 | 76.00 | -- | 78.75 |

960
5.48
7.19
7.16
6.75
3.12
3.60
6.05
4.56
1.44
4.58
3.00
8.75



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Base map by the Texas State Highway Department

OBSERVATION WELLS IN THE DELL CITY AREA, HUDSPETH COUNTY, TEXAS

JEFF DAVIS COUNTY, WATER-LEVEL MEASUREMENTS

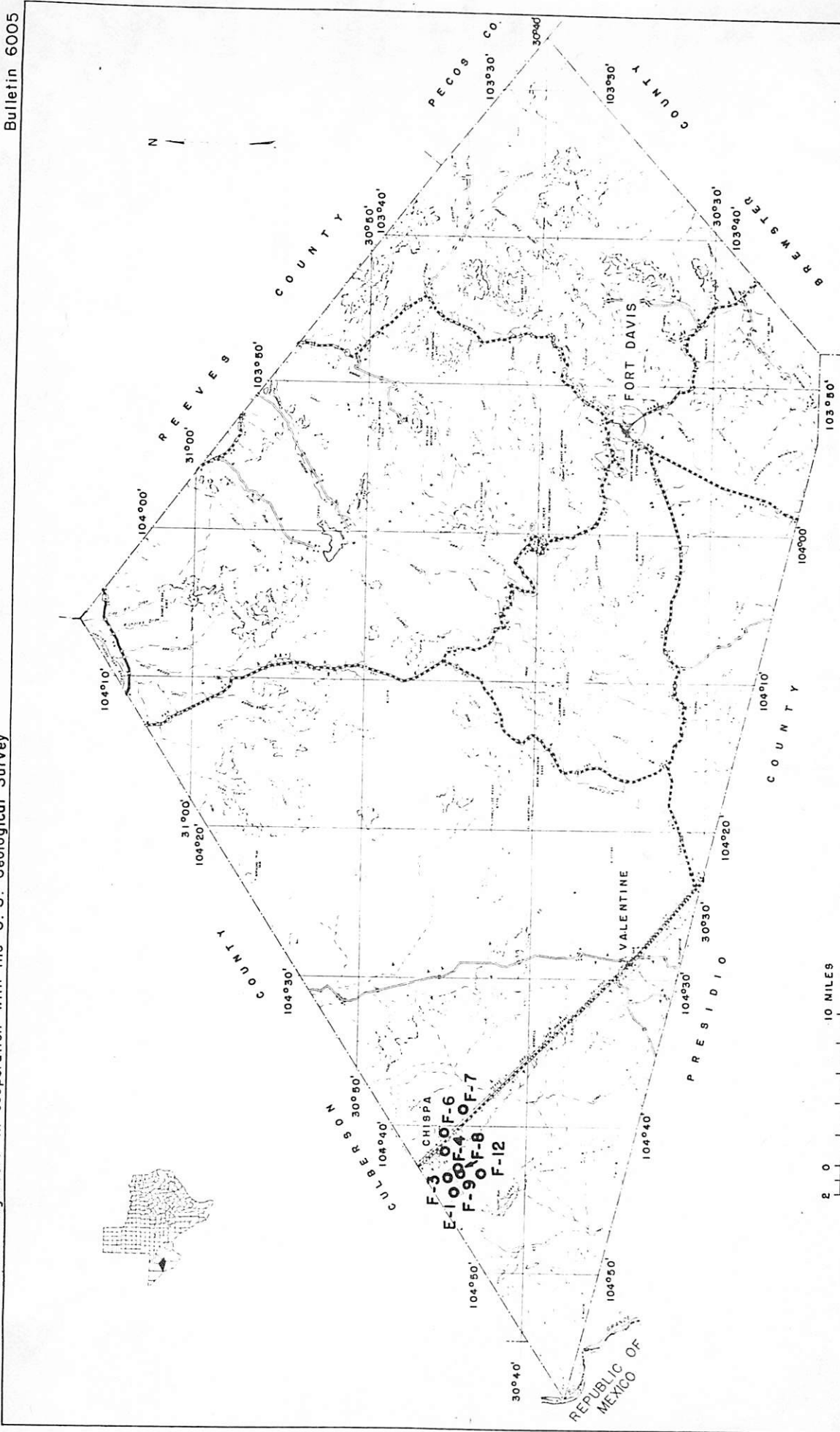
January water levels, in feet below land-surface datum

| Well | 1955 | 1956 | 1957 | 1958 | 1959 | 1960 |
|------|--------|--------|--------|--------|------|--------|
| E-1 | -- | 168.0 | -- | -- | -- | -- |
| F-3 | 152.35 | 153.82 | 159.46 | 164.35 | -- | 165.25 |
| F-4 | 138.42 | 140.98 | 144.40 | 147.60 | -- | -- |
| F-6 | 172.34 | 175.20 | 176.70 | 181.77 | -- | 194.90 |
| F-7 | 213.25 | 216.09 | 219.26 | 222.27 | -- | -- |
| F-8 | 154.42 | 156.07 | 162.47 | 168.98 | -- | 166.70 |
| F-9 | 159.93 | 161.65 | 167.95 | 174.70 | -- | 172.45 |
| F-12 | -- | 196.82 | 196.06 | -- | -- | -- |

1960
55.25
4.90
6.70
2.45

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Base map by the Texas State Highway Department

OBSERVATION WELLS IN JEFF DAVIS COUNTY, TEXAS