

TEXAS BOARD OF WATER ENGINEERS

H. A. Beckwith, Chairman

A. P. Rollins, Member

O. F. Dent, Member

BULLETIN 5415

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

Compiled by

C. F. Follett, Engineer

Texas Board of Water Engineers

**Hall Southwest Water Consultants, Inc.
3303 Northland Drive, Suite 311
Austin, Texas 78731**

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

November 1954



C O N T E N T S

	Page
Introduction -----	1
List of publications -----	3
Water level measurements in Culberson County -----	6
Wildhorse Valley -----	6
Lobo Flats area -----	10
Water level measurements in Hudspeth County -----	20
Water level measurements in Jeff Davis County -----	29

ILLUSTRATIONS

Map showing location of observation wells in Culberson County --	5
Hydrographs showing fluctuation of water levels in wells in the Wildhorse Valley in Culberson County and annual precipitation at Van Horn, Tex. -----	16
Hydrographs showing fluctuation of water levels in wells in the Lobo Flats area in Culberson County and annual precipitation at Van Horn -----	17
Map showing location of observation wells in Hudspeth County --	19
Hydrographs showing fluctuation of water levels in wells in Hudspeth County wells and annual precipitation at Dell City --	26
Map showing location of observation wells in Jeff Davis County -	28
Hydrographs showing fluctuation of water levels in Jeff Davis County wells and annual precipitation at Valentine -----	31

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

Compiled by

C. R. Follett, Engineer

Texas Board of Water Engineers

November 1954

This bulletin contains measurements of the depth to water in feet below land-surface datum in 53 wells in Culberson County, 28 wells in Hudspeth County, and 7 wells in Jeff Davis County. It is one of a series of publications by the Texas Board of Water Engineers which contain measurements of the water levels in selected observation wells made as a part of the cooperative program of ground-water investigations throughout the State by the United States Geological Survey and the Texas Board of Water Engineers. The records cover a period from 1943 through May 1954; however, no measurements were made prior to 1948 in Hudspeth County and no measurements were made during the years 1944-47 in Culberson and Jeff Davis Counties.

During 1948-50, an inventory of irrigation wells was made in the Dell City area of Hudspeth County and in the Lobo Flats area of Culberson and Jeff Davis Counties. The results of these two investigations were published by the Texas Board of Water Engineers as Bulletin 5004 in 1950 and Bulletin 5102 in 1951, respectively. Water-level measurements made during the time of the inventories are included in this bulletin.

If more than one water-level measurement is made during the month, only the highest water level is given in this report. The accompanying maps show the locations of the observation wells. Hydrographs showing the fluctuation of the water level in a few selected wells and the precipitation at a nearby Weather Bureau station are given for each county. Records of water wells, geologic data, pumpage data, and discussion of water levels are given in the following publications.

LIST OF PUBLICATIONS

BROADHURST, W. L., SUNDSTROM, R. W., and WEAVER, D. E., 1951, Public water supplies in western Texas: U. S. Geol. Survey Water-Supply Paper 1106.

_____, 1949, Public water supplies in western Texas: Texas Board Water Engineers.

HOOD, J. W., and SCALAPINO, R. A., 1951, Summary of the development of ground water for irrigation in the Lobo Flats area, Culberson and Jeff Davis Counties, Tex.: Texas Board Water Engineers, Bull. 5102.

SCALAPINO, R. A., 1950, Development of ground water for irrigation in the Dell City area, Tex.: Texas Board Water Engineers, Bull. 5004.

WHITE, W. N., GALES, H. S., and NYE, S. S., 1938, Ground-water resources of the Balmorhea area in western Texas: Texas Board of Water Engineers.*

_____, 1941, Geology and ground-water resources of the Balmorhea area of western Texas: U. S. Geol. Survey Water-Supply Paper 849-C.

* Out of print. Copies available for reference in some public libraries and at the Austin office of the United States Geological Survey.

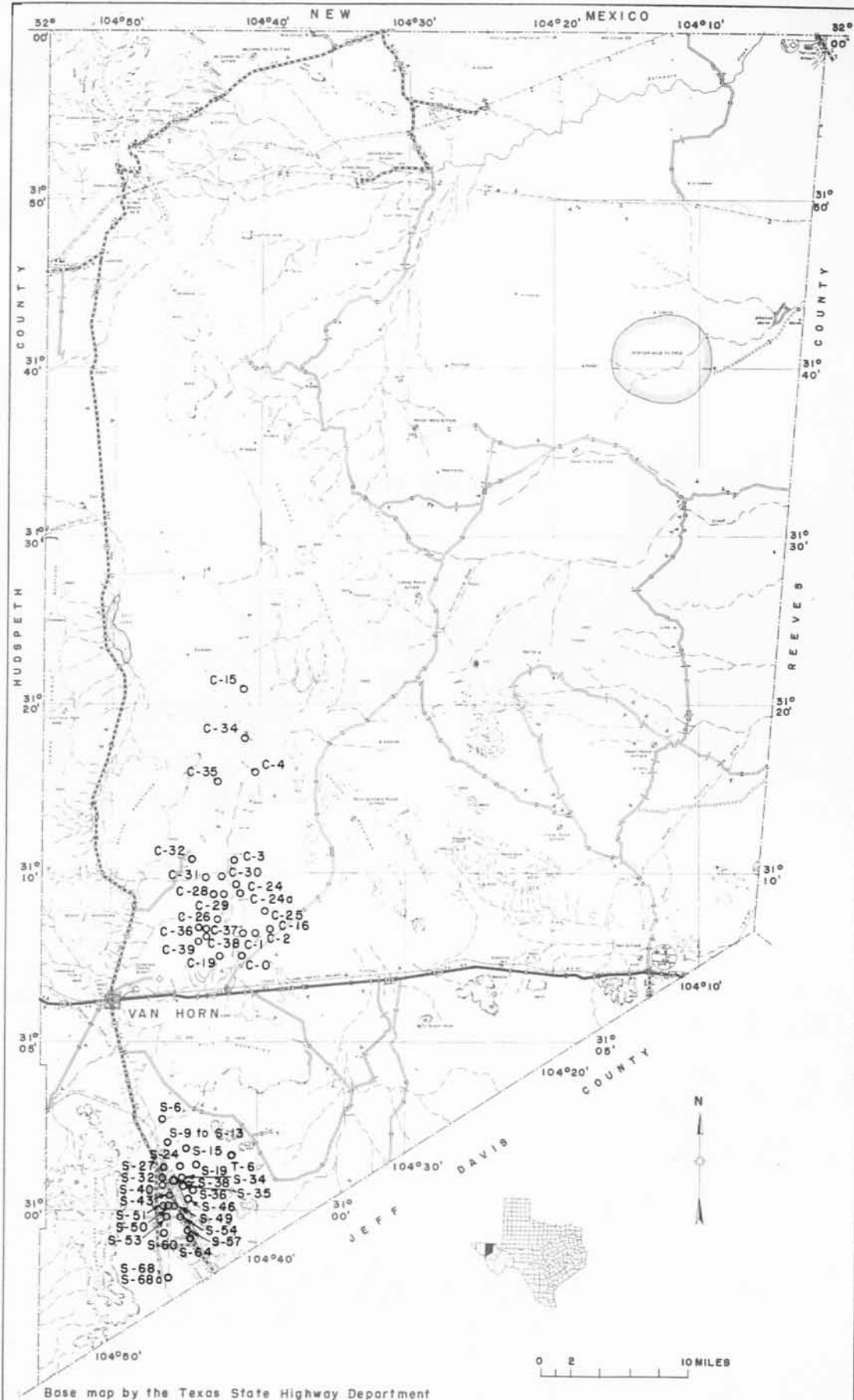


CULBERSON COUNTY

CULBERSON COUNTY, TEXAS
OBSERVATION WELLS

January 1954

Bulletin 5415
Texas Board of Water Engineers
in cooperation with
U. S. Geological Survey



Base map by the Texas State Highway Department

CULBERSON COUNTY

Wildhorse Valley

C-0. Lat. 31°05', long. 104°41'.

Date	Water level	Date	Water level	Date	Water level
May 11, 1950	218.91	Jan. 27, 1953	219.34	Jan. 21, 1954	222.28

C-1. Lat. 31°06', long. 104°40'.

May 11, 1950	212.02	Mar. 8, 1952	217.32	Jan. 21, 1954	217.80
Mar. 3, 1951	211.95				

C-2. Lat. 31°06', long. 104°40'.

Mar. 3, 1951	220.00	Jan. 27, 1953	220.04	Jan. 21, 1954	211.55
Mar. 8, 1952	218.84				

C-3. Lat. 31°41', long. 104°40'.

May 11, 1950	151.56	Jan. 27, 1953	156.86	Jan. 21, 1954	154.03
--------------	--------	---------------	--------	---------------	--------

C-4. Lat. 31°15', long. 104°40'. Depth 150 feet.

Jan. 29, 1953	137.72	Jan. 21, 1954	138.92		
---------------	--------	---------------	--------	--	--

C-15. Lat. 31°21', long. 104°40'. Depth 280⁺ feet.

June 30, 1950	248.75	Jan. 21, 1954	252.61		
---------------	--------	---------------	--------	--	--

CULBERSON COUNTY

Wildhorse Valley

C-16. Lat. 31°06', long. 104°39'. Depth 410[±] feet.

Date	Water level	Date	Water level	Date	Water level
Mar. 3, 1951	218.34	Jan. 27, 1953	226.33	Jan. 21, 1954	223.11
Mar. 8, 1952	219.90				

C-19. Lat. 31°05', long. 104°42'. Depth 950 feet.

Mar. 3, 1951	236.29	Mar. 8, 1952	236.93	Jan. 27, 1953	238.09
--------------	--------	--------------	--------	---------------	--------

C-24. Lat. 31°09', long. 104°41'. Depth 414 feet.

Jan. 27, 1953	187.35	Jan. 21, 1954	176.03		
---------------	--------	---------------	--------	--	--

C-24a. Lat. 31°08', long. 104°41'. Depth 384 feet.

Jan. 27, 1953	171.84	Jan. 21, 1954	173.34		
---------------	--------	---------------	--------	--	--

C-25. Lat. 31°08', long. 104°39'. Depth 384 feet.

Jan. 29, 1953	199.9	Jan. 21, 1954	200.63		
---------------	-------	---------------	--------	--	--

C-26. Lat. 31°07', long. 104°42'. Depth 500[±] feet.

Jan. 27, 1953	198.35	Jan. 21, 1954	199.53		
---------------	--------	---------------	--------	--	--

CULBERSON COUNTY

Wildhorse Valley

C-28. Lat. $31^{\circ}08'$, long. $104^{\circ}42'$. Depth 450 feet.

Date	Water level	Date	Water level	Date	Water level
Jan. 27, 1953	180.05	Jan. 21, 1954	181.01		

C-29. Lat. $31^{\circ}08'$, long. $104^{\circ}42'$. Depth 450 feet.

Jan. 27, 1953	178.84	Jan. 21, 1954	179.47		
---------------	--------	---------------	--------	--	--

C-30. Lat. $31^{\circ}09'$, long. $104^{\circ}42'$. Depth 400 feet.

Jan. 27, 1953	167.05	Jan. 21, 1954	165.66		
---------------	--------	---------------	--------	--	--

C-31. Lat. $31^{\circ}09'$, long. $104^{\circ}43'$. Depth 550⁺ feet.

Jan. 27, 1953	177.78	Jan. 21, 1954	179.15		
---------------	--------	---------------	--------	--	--

C-32. Lat. $31^{\circ}10'$, long. $104^{\circ}45'$. Depth 230 feet.

Jan. 29, 1953	207.77	Jan. 21, 1954	209.38		
---------------	--------	---------------	--------	--	--

C-34. Lat. $31^{\circ}07'$, long. $104^{\circ}39'$.

Jan. 29, 1953	154.02	Jan. 21, 1954	154.03		
---------------	--------	---------------	--------	--	--

CULBERSON COUNTY

Wildhorse Valley

C-35. Lat. $31^{\circ}15'$, long. $104^{\circ}43'$. Depth 190 feet.

Date	Water level	Date	Water level	Date	Water level
Jan. 29, 1953	131.31	Jan. 21, 1954	131.07		

C-36. Lat. $31^{\circ}06'$, long. $104^{\circ}44'$. Depth 615 feet.

Jan. 29, 1953	213.94	Jan. 24, 1954	215.51		
---------------	--------	---------------	--------	--	--

C-37. Lat. $31^{\circ}06'$, long. $104^{\circ}43'$. Depth 625 feet.

Jan. 29, 1954	212.96	Jan. 24, 1954	213.73		
---------------	--------	---------------	--------	--	--

C-38. Lat. $31^{\circ}06'$, long. $104^{\circ}43'$. Depth 625[±] feet.

Jan. 19, 1953	211.93	Jan. 24, 1954	220.82		
---------------	--------	---------------	--------	--	--

C-39. Lat. $31^{\circ}06'$, long. $104^{\circ}43'$. Depth 660 feet.

Jan. 27, 1953	221.27	Jan. 24, 1954	223.45		
---------------	--------	---------------	--------	--	--

CULBERSON COUNTY

Lobo Flats area

S-6. Lat. 30°55', long. 104°47'. Depth 500 feet.

Date	Water level	Date	Water level	Date	Water level
May 3, 1950	141.65	Feb. 8, 1951	141.89	Mar. 8, 1952	141.30

S-9. Lat. 30°53', long. 104°47'.

Feb. 8, 1951	128.28	Mar. 8, 1952	131.19	Jan. 23, 1954	128.51
--------------	--------	--------------	--------	---------------	--------

S-10. Lat. 30°53', long. 104°46'. Depth 400 feet.

May 3, 1950	137.70	Mar. 8, 1952	139.55	Jan. 23, 1954	150.43
Feb. 8, 1951	133.52				

S-11. Lat. 30°53', long. 104°46'. Depth 406 feet.

May 2, 1950	137.87	Jan. 23, 1954	151.78
-------------	--------	---------------	--------

S-12. Lat. 30°53', long. 104°46'. Depth 405 feet, casing slotted at 200-405 feet.

June 22, 1949	132.24	June 2, 1950	150.99	Jan. 26, 1953	147.91
May 3, 1950	139.31	Feb. 8, 1951	144.44	Jan. 23, 1954	152.34

CULBERSON COUNTY

Lobo Flats area

S-13. Lat. 30°53', long. 104°46'. Depth 407 feet, cased.

Date	Water level	Date	Water level	Date	Water level
May 2, 1950	141.10	Feb. 28, 1951	136.4	Jan. 23, 1954	154.35
June 2	152.83				

S-15. Lat. 31°53', long. 104°45'. Depth 387 feet, casing slotted at

0-387 feet.

Feb. 8, 1951	112.85	Jan. 26, 1953	137.80	Jan. 23, 1954	144.69
Mar. 8, 1952	123.24				

S-19. Lat. 30°53', long. 104°45'. Depth 600 feet.

Aug. 26, 1943	89.12	Mar. 8, 1952	116.98	Jan. 23, 1954	134.84
Feb. 8, 1951	102.04	Jan. 26, 1953	127.98		

S-24. Lat. 30°52', long. 104°46'. Depth 421 feet.

May 3, 1950	138.4	Jan. 26, 1953	125.77	Jan. 23, 1954	127.86
Feb. 28, 1951	102.4				

S-27. Lat. 30°52', long. 104°46'. Depth 385 feet, casing slotted at 125-

385 feet.

June 21, 1949	100	Jan. 28, 1951	105.3	Jan. 26, 1953	133.90
Nov. 17, 1950	111.12	Mar. 7, 1952	119.02	Jan. 23, 1954	134.9

CULBERSON COUNTY

Lobo Flats area

S-32. Lat. 30°51', long. 104°46'. Depth 295 feet.

Date	Water level	Date	Water level	Date	Water level
Aug. 23, 1943	97.96	Feb. 9, 1951	108.54	Jan. 23, 1954	143.08
Nov. 17, 1950	117.38	Mar. 7, 1952	124.12		
Jan. 24, 1951	110.10	Jan. 26, 1953	137.62		

S-34. Lat. 30°52', long. 104°46'. Depth 350 feet, casing slotted at 100-350 feet.

Feb. 28, 1951	99.1	Jan. 23, 1954	130.78		
---------------	------	---------------	--------	--	--

S-35. Lat. 30°51', long. 104°46'. Depth 386 feet, casing slotted at 100-386 feet.

Feb. 28, 1951	102.1	Jan. 26, 1953	129.26	Jan. 23, 1954	136.45
---------------	-------	---------------	--------	---------------	--------

S-36. Lat. 30°51', long. 104°45'. Depth 129 feet.

Aug. 26, 1943	92.87	Feb. 8, 1951	101.8	Mar. 7, 1952	110.75
---------------	-------	--------------	-------	--------------	--------

S-38. Lat. 30°51', long. 104°46'. Depth 274 feet.

July 30, 1943	90.2	Feb. 9, 1951	98.02	Mar. 7, 1952	102.46
Aug. 13, 1948	86.80	Mar. 3	105.29		

CULBERSON COUNTY

Lobo Flats area

S-40. Lat. 30°51', long. 104°47'. Depth 385 feet, cased.

Date	Water level	Date	Water level	Date	Water level
May 3, 1950	168.04	Nov. 17, 1950	125.34	Mar. 7, 1952	130.95
Aug. 3	167.58	Feb. 9, 1951	115.90		

S-43. Lat. 30°50', long. 104°46'. Depth 350 feet, casing perforated at 150-350 feet.

Nov. 17, 1950	114.51	Jan. 23, 1954	141.78		
---------------	--------	---------------	--------	--	--

S-46. Lat. 30°50', long. 104°45'. Depth 411 feet.

June 22, 1949	79.74	Feb. 9, 1951	90.90	Jan. 26, 1953	108.13
May 10, 1950	86.81	Mar. 7, 1952	99.12	Jan. 23, 1954	115.00

S-48. Lat. 30°50', long. 104°45'. Depth 267 feet.

Sept. 15, 1949	95.0	June 1, 1950	102.59	Feb. 9, 1951	103.41
May 4, 1950	105.56				

S-49. Lat. 30°50', long. 104°46'.

June 21, 1949	105	Feb. 9, 1951	116.58 °	Jan. 23, 1954	147.48
Nov. 17, 1950	121.72	Mar. 7, 1952	126.81		

CULBERSON COUNTY

Lobo Flats area

S-50. Lat. 30°50', long. 104°46'. Depth 385 feet, cased.

Date	Water level	Date	Water level	Date	Water level
June 21, 1949	101.30	Nov. 17, 1950	121.28	Feb. 9, 1951	116.70

S-51. Lat. 30°50', long. 104°46'. Depth 187 feet.

Aug. 24, 1943	82.3	Mar. 7, 1952	86.27	Jan. 23, 1954	88.66
Feb. 9, 1951	84.71	Jan. 26, 1953	87.09		

S-53. Lat. 30°49', long. 104°46'. Depth 368 feet, cased.

May 2, 1950	92.52	Jan. 26, 1953	111.55	Jan. 23, 1954	120.69
Feb. 28, 1951	88.5				

S-54. Lat. 30°49', long. 104°45'. Depth 375 feet, cased.

Oct. --, 1949	95	Feb. 28, 1951	97.34	Jan. 23, 1954	121.10
Nov. 17, 1950	99.72	Jan. 26, 1953	115.06		

S-57. Lat. 30°49', long. 104°45'. Depth 383 feet, cased.

Apr. --, 1949	114	Feb. 28, 1951	113.80	Jan. 23, 1954	134.98
Nov. 17, 1950	116.20	Jan. 26, 1953	129.31		

S-60. Lat. 30°49', long. 104°47'. Depth 360 feet, cased.

Jan. --, 1949	100	Feb. 9, 1951	116.04	Mar. 7, 1952	122.40
Nov. 17, 1950	118.16				

CULBERSON COUNTY

Lobo Flats area

S-64. Lat. 30°48', long. 104°45'. Depth 422 feet, cased.

Date	Water level	Date	Water level	Date	Water level
June 22, 1949	105.78	Jan. 26, 1953	129.32	Jan. 23, 1954	134.62
Feb. 28, 1951	115.02				

S-68. Lat. 30°46', long. 104°47'. Depth 400 feet, cased.

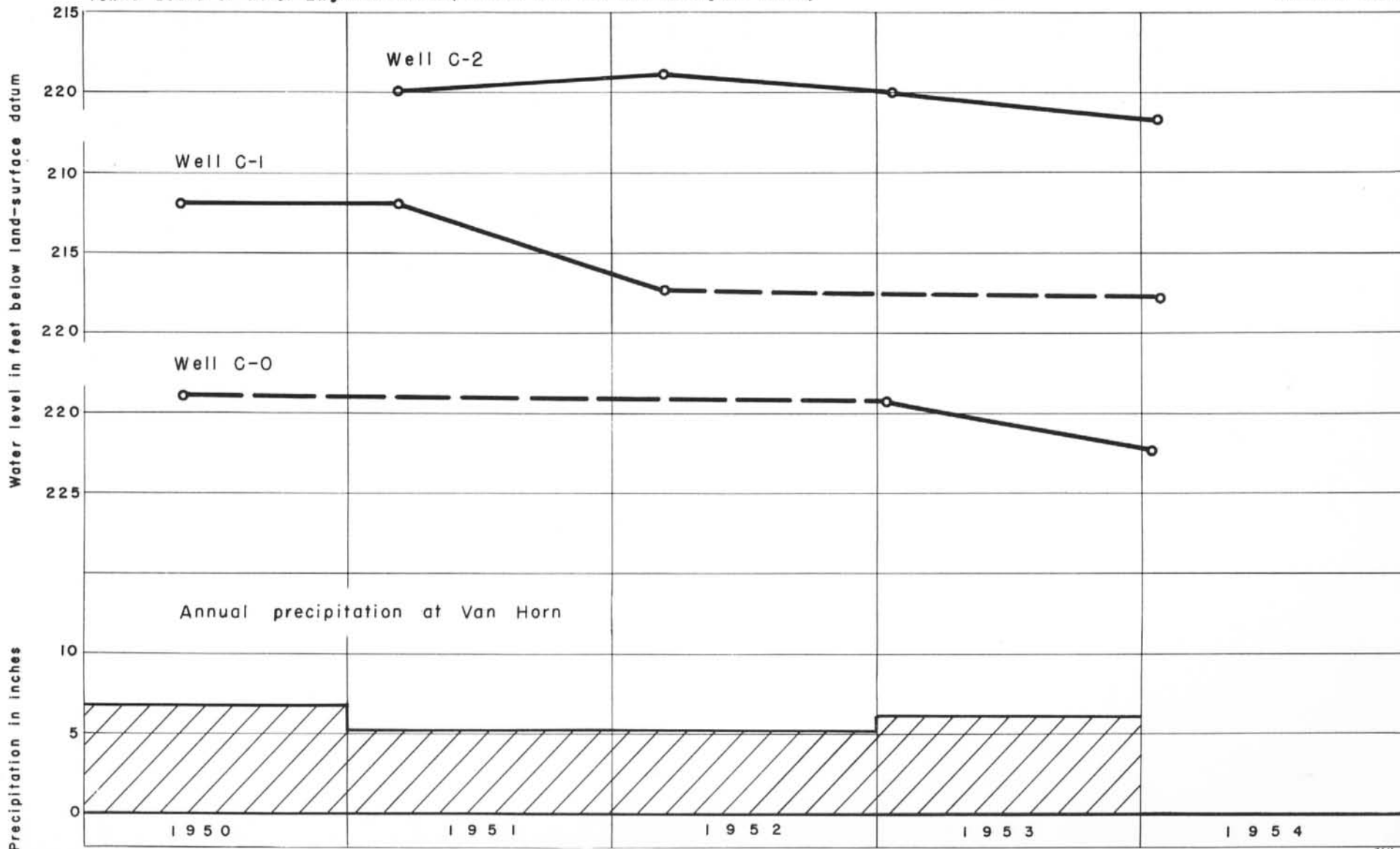
June 11, 1950	129.80	Jan. 26, 1953	132.62	Jan. 23, 1954	135.07
Feb. 28, 1951	117.42				

S-68a. Lat. 30°46', long. 104°47'.

Jan. 26, 1953	133.60	Jan. 23, 1954	136.54		
---------------	--------	---------------	--------	--	--

T-6. Lat. 30°53', long. 104°42'. Depth 400 feet.

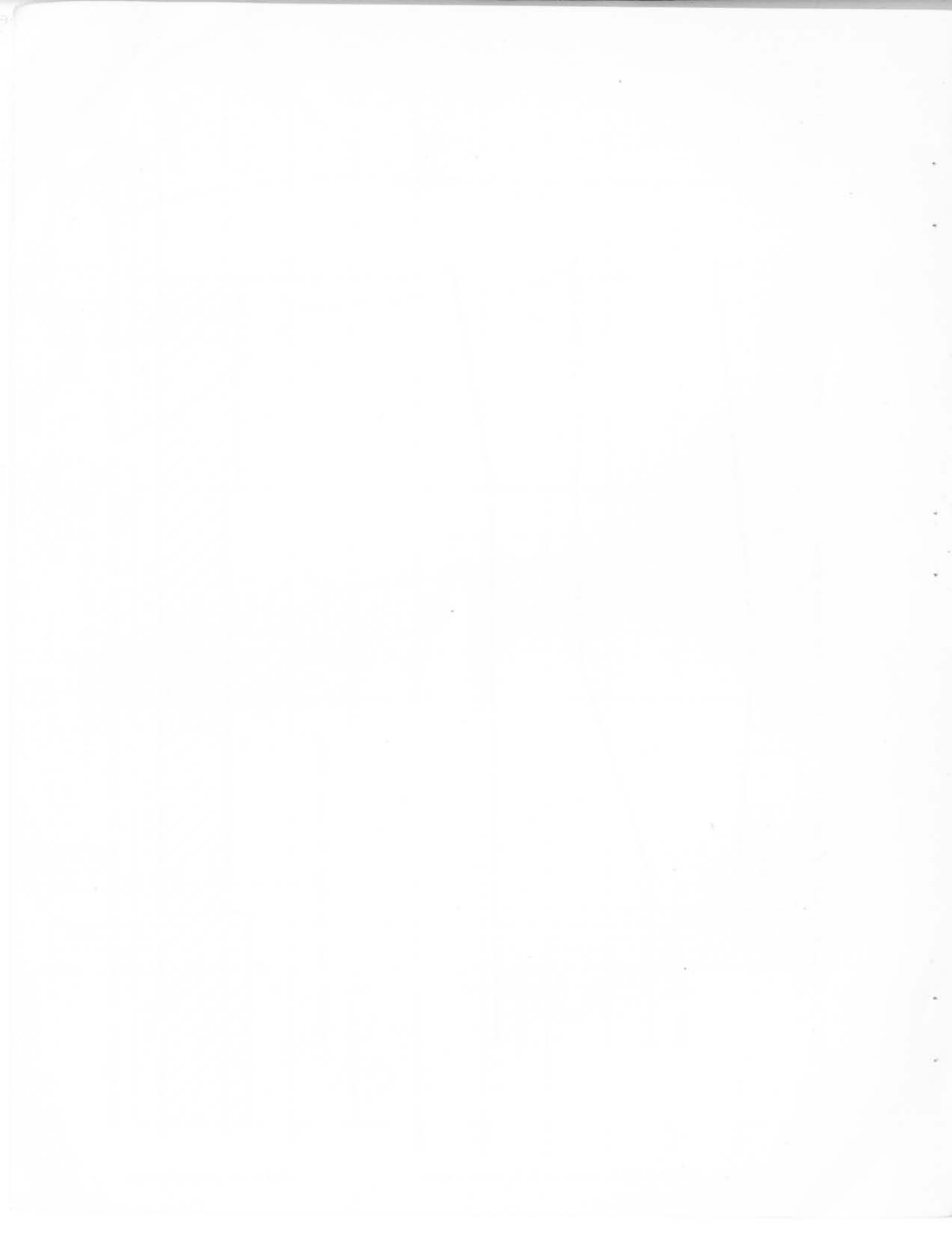
Aug. 26, 1943	269.7	Mar. 8, 1952	270.54	Jan. 23, 1954	276.71
Feb. 8, 1951	267.9	Jan. 26, 1953	273.69		

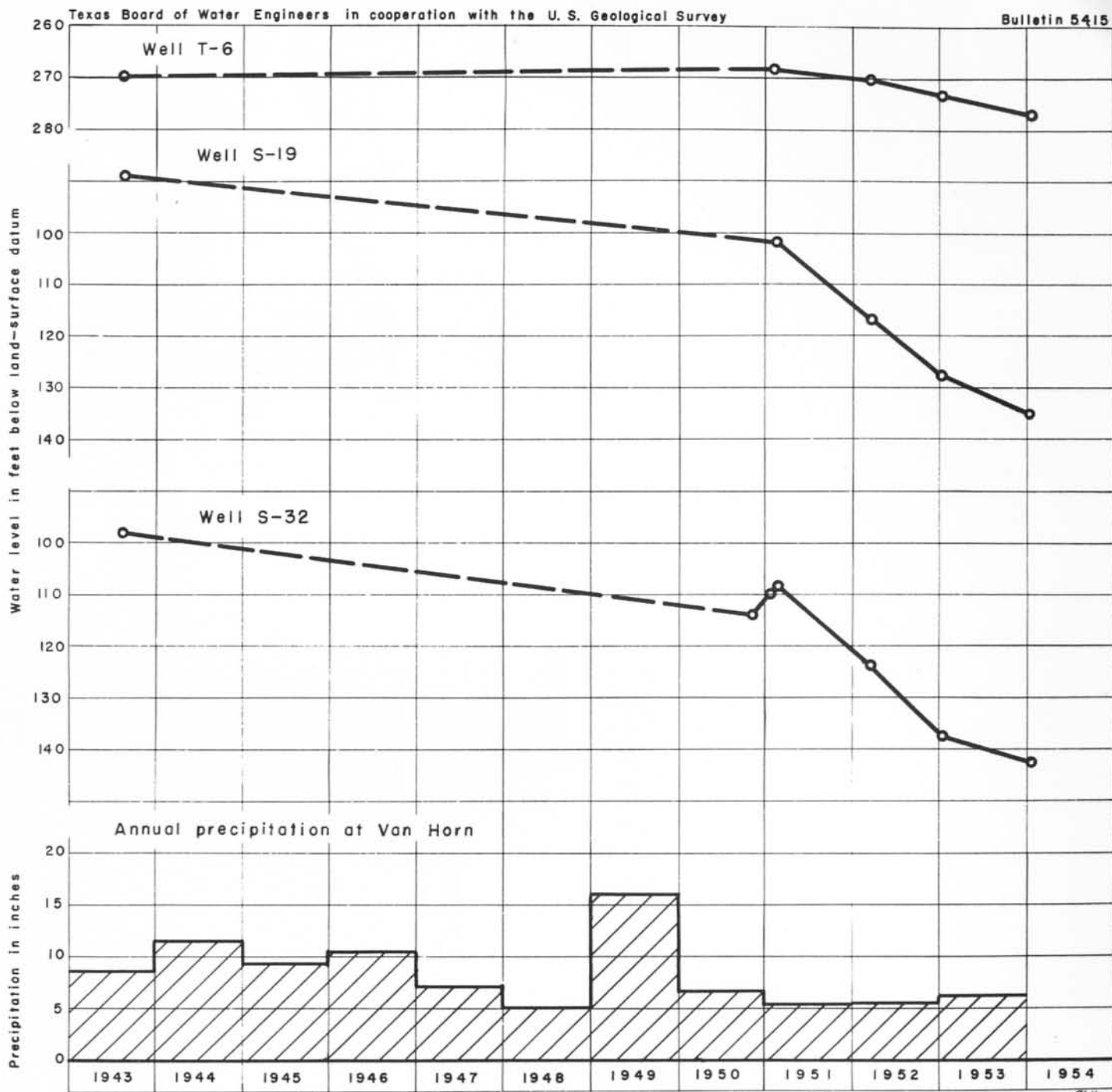


-16-

Hydrographs showing fluctuation of water levels in wells in the Wildhorse Valley in Culberson County and annual precipitation at Van Horn, Tex.

CLM





Hydrographs showing fluctuation of water levels in wells in the Lobo Flats area of Culberson County and annual precipitation at Van Horn, Tex.



PLATE NO. 1000
STATE OF TEXAS
COUNTY OF HAYS

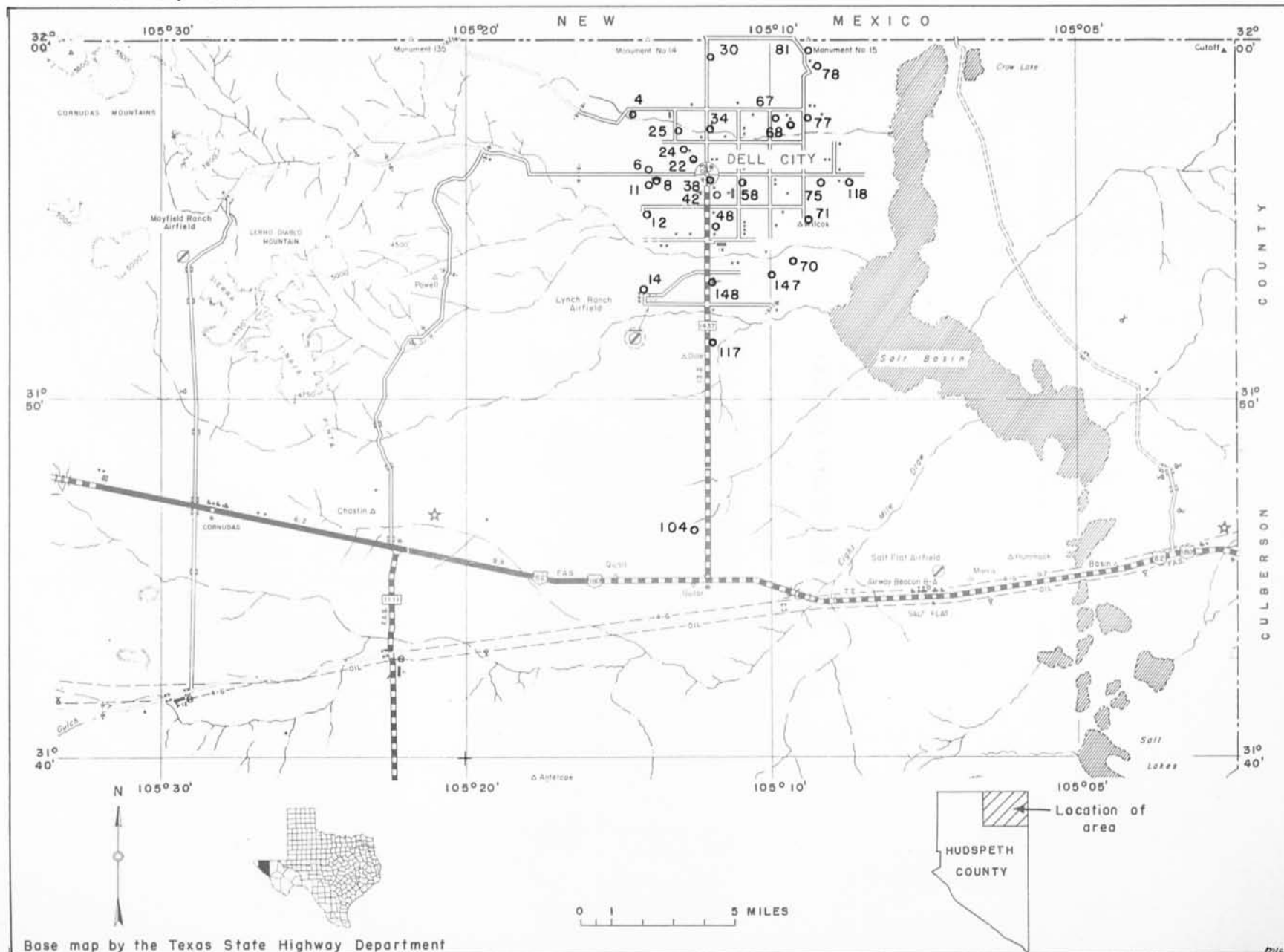
HUDSPETH COUNTY

AREA, YTTIO JED
SAXET, YTIMJOD HTJSSQH
EJLJW MOITAVHJSSOD
1900

DELL CITY AREA
 HUDSPETH COUNTY, TEXAS
 OBSERVATION WELLS

January 1954

Bulletin 5415
 Texas Board of Water Engineers
 in cooperation with
 U. S. Geological Survey



Base map by the Texas State Highway Department

HUDSPETH COUNTY

4. Lat. 31°58', long. 105°14'. Depth 750 feet.

Date	Water level	Date	Water level	Date	Water level
Aug. 16, 1949	182.0	Feb. 5, 1951	179.77	Jan. 28, 1952	184.60
Feb. 21, 1950	179.23	Feb. 7, 1952	195.82	Jan. 22, 1954	187.45

6. Lat. 31°56', long. 105°13'. Depth 350 feet.

Date	Water level	Date	Water level	Date	Water level
Nov. 8, 1948	155.39	Jan. 3, 1950	155.32	Nov. 1, 1950	157.98
Feb. 3, 1949	154.89	Feb. 21	155.26	Feb. 5, 1951	156.27
Nov. 24	156.08	July 28	159.88	Feb. 7, 1952	158.62

8. Lat. 31°56', long. 105°13'. Depth 230 feet.

Date	Water level	Date	Water level	Date	Water level
Mar. --, 1948	130.30	Sept. 23, 1949	133.75	Feb. 7, 1952	133.22
Nov. 12	130.45	Jan. 3, 1950	130.84	Jan. 28, 1953	136.34
Feb. 3, 1949	129.92	Feb. 5, 1951	131.40	Jan. 22, 1954	139.75

11. Lat. 31°56', long. 105°14'. Depth 361 feet.

Date	Water level	Date	Water level	Date	Water level
Mar. 12, 1948	156.23	Feb. 3, 1949	156.94	Jan. 3, 1950	157.54
Aug. 26	157.50	Aug. 12	159.39	Feb. 21	157.28
Nov. 12	157.35	Nov. 24	157.98		

12. Lat. 31°55', long. 105°13'. Depth 275 feet, cased to 14 feet.

Date	Water level	Date	Water level	Date	Water level
Nov. 12, 1948	141.15	Feb. 21, 1950	140.99	Feb. 7, 1952	144.02
Feb. 3, 1949	140.65	July 28	143.18	Jan. 28, 1953	146.12
Nov. 24	141.50	Nov. 1	142.75	Jan. 22, 1954	148.80
Jan. 3, 1950	140.99	Feb. 5, 1951	142.02		

HUDSPETH COUNTY

14. Lat. 31°52', long. 105°13'. Depth 500 feet.

Date	Water level	Date	Water level	Date	Water level
Nov. 8, 1948	158.15	Jan. 3, 1950	158.31	Nov. 19, 1951	161.72
Feb. 3, 1949	157.91	Feb. 21	158.36	Feb. 7, 1952	161.13
Nov. 24	158.79	Feb. 5	159.21	Jan. 28, 1953	163.11

22. Lat. 31°56', long. 105°12'. Depth 304 feet.

Aug. 12, 1948	80.25	Feb. 5, 1951	88.42	Jan. 28, 1953	93.08
Feb. 3, 1949	86.98	Feb. 7, 1952	90.83	Jan. 22, 1954	96.00

24. Lat. 31°57', long. 105°12'. Depth 200 feet.

Aug. 12, 1948	111.15	Feb. 5, 1951	111.13	Jan. 28, 1953	118.48
Feb. 3, 1949	109.62	Feb. 7, 1952	113.14	Jan. 22, 1954	118.23

25. Lat. 31°57', long. 105°12'. Depth 248 feet, cased to 40 feet.

Aug. 10, 1948	120.81	Aug. 12, 1949	123.72	Feb. 21, 1950	120.33
Aug. 26	121.25	Nov. 23	121.08	July 28	125.40
Feb. 3, 1949	119.87	Jan. 3, 1950	120.46	Feb. 5, 1951	121.30

30. Lat. 31°59', long. 105°11'. Depth 280 feet.

Mar. 11, 1948	87.85	Aug. 12, 1949	90.67	Feb. 5, 1951	89.89
Aug. 12	90.80	Sept. 22	90.65	Feb. 7, 1952	94.39
Nov. 8	88.79	Nov. 23	89.39	Jan. 28, 1953	94.71
Feb. 3, 1949	88.23	Nov. 1, 1950	91.25	Jan. 22, 1954	98.93

HUDSPETH COUNTY

34. Lat. 31°57', long. 105°11'. Depth 255 feet, cased to 80 feet.

Date	Water level	Date	Water level	Date	Water level
Feb. --, 1948	85.90	Feb. 3, 1949	87.86	Jan. 3, 1950	89.34
Nov. 8	88.60	Nov. 24	90.36		

38. Lat. 31°56', long. 105°11'. Depth 175 feet, cased to 175 feet.

Mar. 11, 1948	73.75	Aug. 16, 1949	79.42	Feb. 5, 1951	76.38
Aug. 17	76.70	Nov. 24	75.98	Feb. 7, 1952	79.69
Sept. 28	75.72	Jan. 3, 1950	75.40	Jan. 28, 1953	81.37
Feb. 3, 1949	76.72	Feb. 21	75.23	Jan. 22, 1954	84.44

42. Lat. 31°55', long. 105°11'. Depth 220 feet, cased to 120 feet.

Mar. 1, 1948	62.50	Nov. 1, 1950	65.09	Jan. 28, 1953	68.09
Sept. 28	63.47	Feb. 5, 1951	64.20	Jan. 22, 1954	71.53
Feb. 3, 1949	62.83	Feb. 7, 1952	66.20	May 25	83.20

48. Lat. 31°49', long. 105°11'. Depth 200 feet.

Aug. 17, 1948	59.12	Jan. 5, 1950	58.61	Jan. 28, 1953	63.73
Feb. 3, 1949	58.03	Feb. 21	58.37		

58. Lat. 31°55', long. 105°10'. Depth 201 feet, cased to 80 feet.

Aug. 5, 1948	47.0	Nov. 24, 1949	48.74	Feb. 7, 1952	52.48
Nov. 8	49.11	Jan. 3, 1950	48.22	Jan. 22, 1954	58.29
Feb. 3	47.64	Feb. 21	48.02		
Sept. 22	51.67	Nov. 1	50.62		

HUDSPETH COUNTY

67. Lat. 31°57', long. 105°09'. Depth 250 feet, cased to 70 feet.

Date	Water level	Date	Water level	Date	Water level
Mar. 2, 1948	27.29	Jan. 3, 1950	27.97	Jan. 28, 1953	33.09
Aug. 6	31.50	Feb. 21	27.96	Jan. 22, 1954	36.01
Feb. 3, 1949	27.72	Feb. 5, 1951	28.93		
Nov. 24	28.35	Feb. 7, 1952	30.86		

68. Lat. 31°56', long. 105°08'. Depth 250 feet, cased to 250 feet.

Aug. 12, 1948	25.00	Jan. 3, 1950	25.93	Nov. 1, 1950	27.10
Feb. 3, 1949	25.42	Feb. 21	25.96	Feb. 5, 1951	26.60
Nov. 24	26.34	July 28	27.30		

70. Lat. 31°53', long. 105°08'. Depth 100 feet, cased to 100 feet.

Aug. 12, 1948	18.77	Jan. 28, 1953	22.68	Jan. 22, 1954	24.63
Feb. 4, 1949	18.68				

71. Lat. 31°55', long. 105°13'. Depth 300 feet, cased to 100 feet, slotted below 30 feet.

Aug. 6, 1948	21.0	Feb. 5, 1949	22.74	Jan. 22, 1954	28.35
Feb. 3, 1949	22.34	Jan. 28, 1953	26.41		

75. Lat. 31°56', long. 105°07'. Depth 118 feet.

Mar. 11, 1948	19.91	Nov. 24, 1949	20.91	July 28, 1950	21.61
Aug. 12	20.35	Jan. 3, 1950	20.68	Nov. 1	21.59
Feb. 3, 1949	20.17	Feb. 21	20.52	Feb. 5, 1951	21.22

HUDSPETH COUNTY

77. Lat. 31°57', long. 105°08'. Depth 200 feet.

Date	Water level	Date	Water level	Date	Water level
Mar. 11, 1948	26.63	Jan. 3, 1950	26.79	Jan. 28, 1953	31.34
Aug. 5	26.50	Feb. 21	26.83	Jan. 22, 1954	33.31
Feb. 3, 1949	26.36	Feb. 5, 1951	27.62		
Nov. 11	27.91	Feb. 7, 1952	29.45		

78. Lat. 31°59', long. 105°08'. Depth 250 feet, cased to 100 feet.

Date	Water level	Date	Water level	Date	Water level
Nov. 8, 1949	22.74	Nov. 1, 1950	22.25	Jan. 28, 1953	27.68
Feb. 21, 1950	22.94	Feb. 5, 1951	23.78	Jan. 22, 1954	30.27

81. Lat. 31°59', long. 105°08'. Depth 154 feet, cased to 8 feet.

Date	Water level	Date	Water level	Date	Water level
Mar. --, 1948	44.60	Jan. 3, 1950	46.54	Feb. 7, 1952	51.20
Sept. 28	46.45	Feb. 21	46.51	Jan. 28, 1953	53.08
Feb. 3, 1949	46.15	Nov. 1	50.09	Jan. 22, 1954	55.81
Sept. 22	47.53	Feb. 5, 1951	49.42	May 21	58.20

104. Lat. 31°46', long. 105°11'. Depth 450 feet.

Date	Water level	Date	Water level	Date	Water level
Nov. 29, 1949	367.5	Feb. 7, 1952	372.31	Jan. 28, 1953	272.34

117. Lat. 31°51', long. 105°11'. Depth 295 feet.

Date	Water level	Date	Water level	Date	Water level
Feb. 7, 1952	80.25	Jan. 28, 1953	82.30	Jan. 22, 1954	95.6

118. Lat. 31°56', long. 105°07'.

Date	Water level	Date	Water level	Date	Water level
Nov. 19, 1951	14.82	Jan. 28, 1953	16.48	Jan. 22, 1954	17.51
Feb. 7, 1952	15.96				

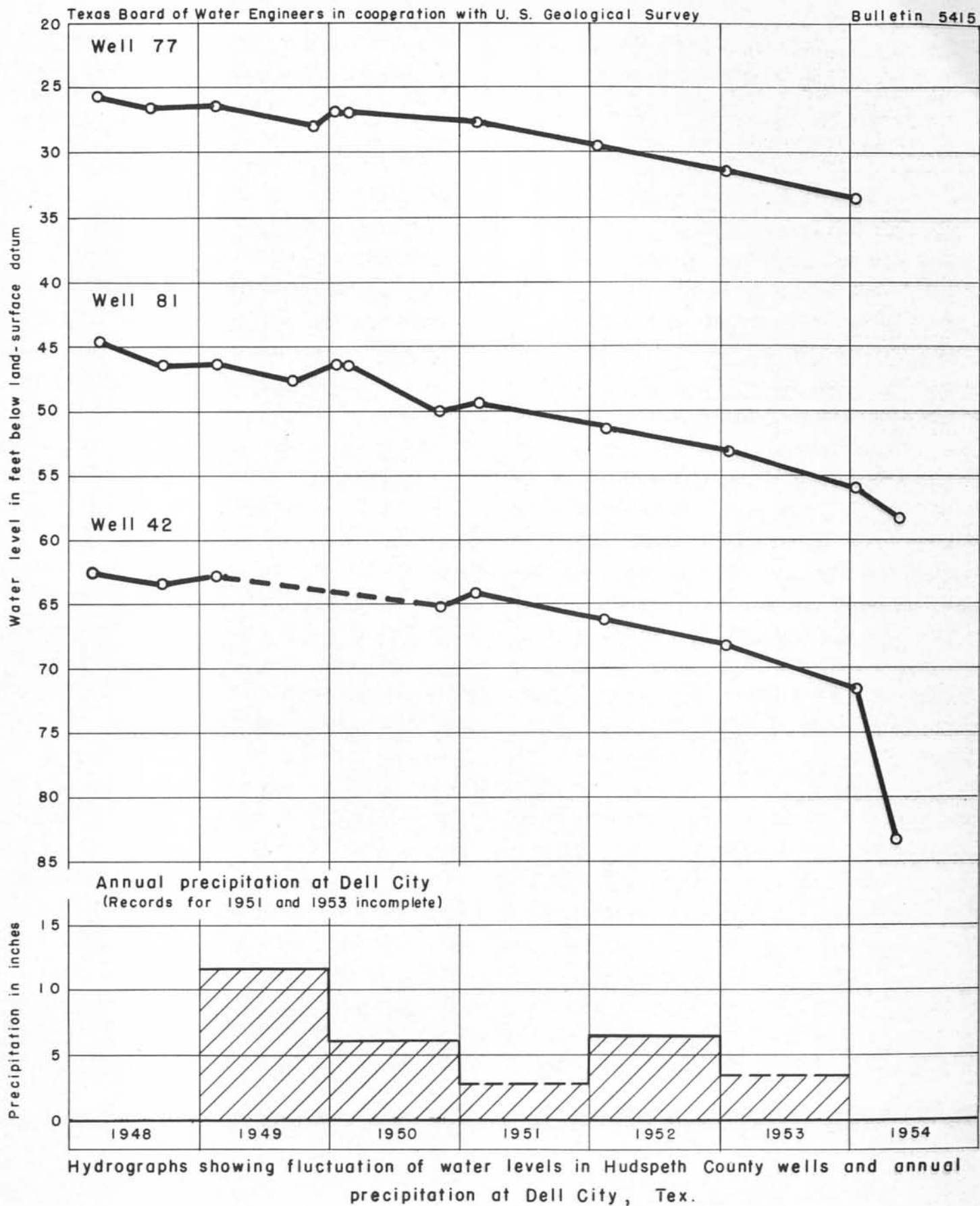
HUDSPETH COUNTY

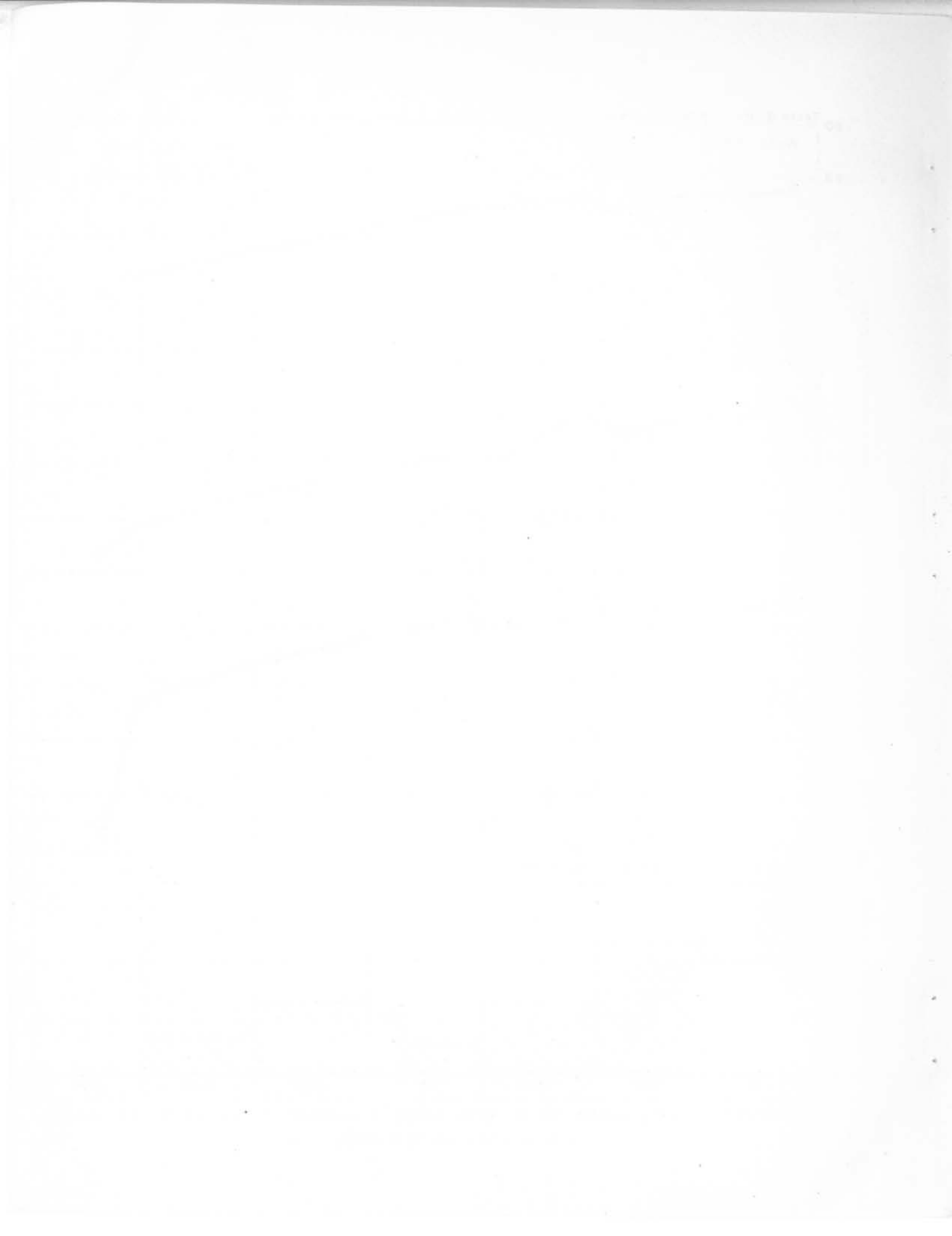
147. Lat. $31^{\circ}53'$, long. $105^{\circ}09'$. Depth 330 feet, cased to 8 feet.

Date	Water level	Date	Water level	Date	Water level
Jan. 28, 1953	29.70	Jan. 22, 1954	32.40		

148. Lat. $31^{\circ}53'$, long. $105^{\circ}11'$. Depth 278 feet.

Jan. 28, 1953	65.45	Jan. 22, 1954	68.35		
---------------	-------	---------------	-------	--	--



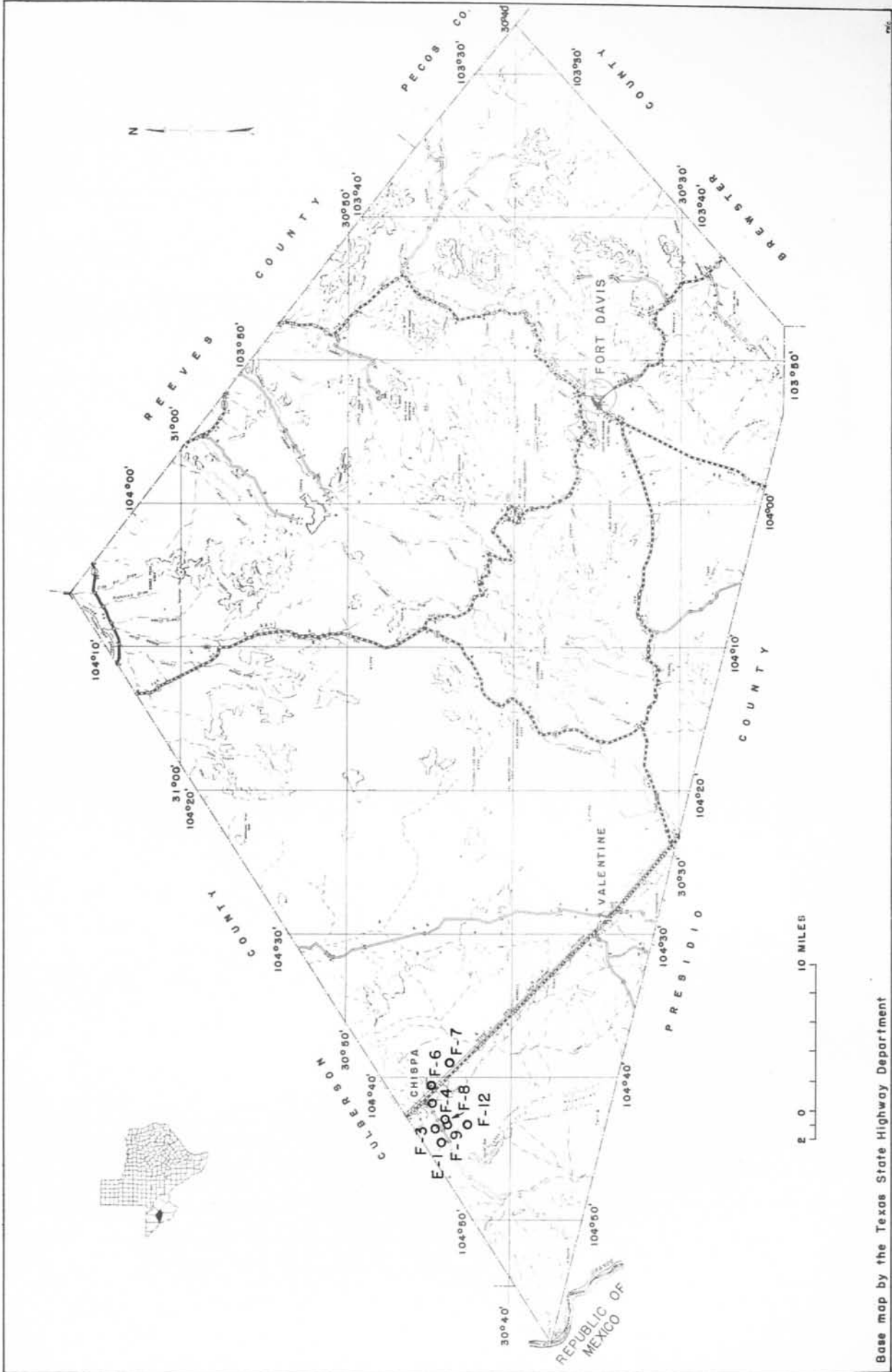


JEFF DAVIS COUNTY

JEFF DAVIS COUNTY, TEXAS OBSERVATION WELLS

January 1954

Bulletin 5415
Texas Board of Water Engineers
in cooperation with
U. S. Geological Survey



JEFF DAVIS COUNTY

E-1. Lat. 30°44', long. 104°45'. Depth 152 feet.

Date	Water level	Date	Water level	Date	Water level
July 21, 1943	142.55	Feb. 9, 1951	145.05	Mar. 7, 1952	150.95

F-3. Lat. 30°44', long. 104°44'. Depth 448 feet, cased to 368 feet.

Apr. 18, 1950	134.0	Feb. 28, 1951	137.66	Jan. 26, 1953	147.85
May 2	134.49	Mar. 7, 1952	141.50	Jan. 23, 1954	148.60

F-4. Lat. 30°44', long. 104°42'. Depth 140 feet.

July 21, 1943	124.3	Mar. 7, 1952	127.53	Jan. 23, 1954	135.48
Feb. 9, 1951	126.19	Jan. 26, 1953	131.50		

F-6. Lat. 30°44', long. 104°41'. Depth 447 feet, cased to 447 feet.

Feb. 28, 1951	159.3	Jan. 27, 1953	165.57	Jan. 24, 1954	169.57
Mar. 7, 1952	161.25				

F-7. Lat. 30°43', long. 104°40'.

June 13, 1950	197.29	Jan. 27, 1953	206.63	Jan. 24, 1954	210.55
Feb. 28, 1951	198.48				

F-8. Lat. 30°43', long. 104°43'. Depth 480 feet, cased to 480 feet.

May 2, 1950	136.35	Feb. 28, 1951	137.07	Jan. 23, 1954	151.64
-------------	--------	---------------	--------	---------------	--------

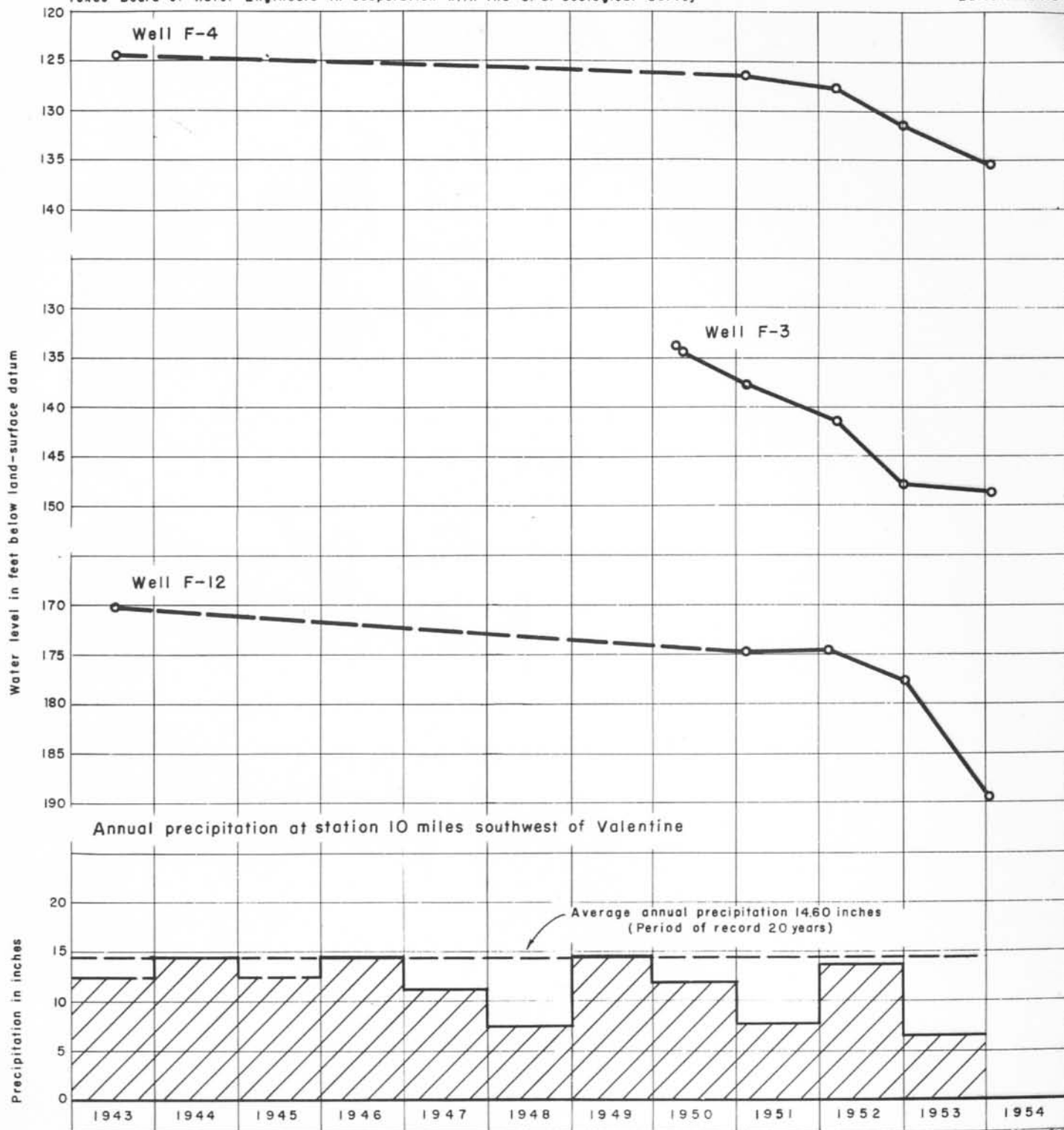
JEFF DAVIS COUNTY

F-9. Lat. $30^{\circ}43'$, long. $104^{\circ}43'$. Depth 500 feet, cased to 500 feet, casing perforated below 71 feet.

Date	Water level	Date	Water level	Date	Water level
Apr. 18, 1950	154.0	Feb. 9, 1951	142.56	Jan. 27, 1953	155.09
May 2	141.14	Mar. 7, 1952	147.73	Jan. 23, 1954	156.22

F-12. Lat. $30^{\circ}42'$, long. $104^{\circ}43'$. Depth 225 feet.

July 21, 1943	169.7	Mar. 7, 1952	174.78	Jan. 23, 1954	189.56
Feb. 9, 1951	174.9	Jan. 27, 1953	183.03		



Hydrographs showing fluctuation of water levels in Jeff Davis County wells and annual precipitation at Valentine, Tex.

