

TEXAS BOARD OF WATER ENGINEERS

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BULLETIN 5707

WATER LEVEL MAPS AND WATER LEVELS IN OBSERVATION  
WELLS IN THE NORTH HIGH PLAINS, TEXAS

Compiled by

C. R. Follett, Engineer

Texas Board of Water Engineers

From records of the Texas Board of Water Engineers  
and the  
Geological Survey, United States Department of the Interior

May 1957



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INTRODUCTION

One of the functions of the Texas Board of Water Engineers is to make, independently or in cooperation with other state and federal agencies, investigations of the source, amount and quality of ground-water supplies. This compilation is based on water-level data obtained as part of a state-wide observation well program which is financed cooperatively by the Texas Board of Water Engineers and the United States Geological Survey.

Compiled herein are water-level decline maps showing fluctuations of the water table in the North High Plains of Texas. Changes in water levels between 1956 and 1957 are indicated by red (decline) or blue (rise) figures on the county maps. The measurements were made during the January-February-March period of each year. Most of the unpublished water-level measurements for each county are tabulated on the page preceding the map of the county. The figures in the tables are in feet below land surface datum. Numbers in parentheses are numbers that have been published in previous reports and/or used by the Water District.

Water-level measurements are on record in the office of the Texas Board of Water Engineers and the U. S. Geological Survey. They are published periodically in water-level reports but pending publication, they may be consulted in the open file of the above office.

## WATER-LEVEL MEASUREMENTS IN DALLAM COUNTY

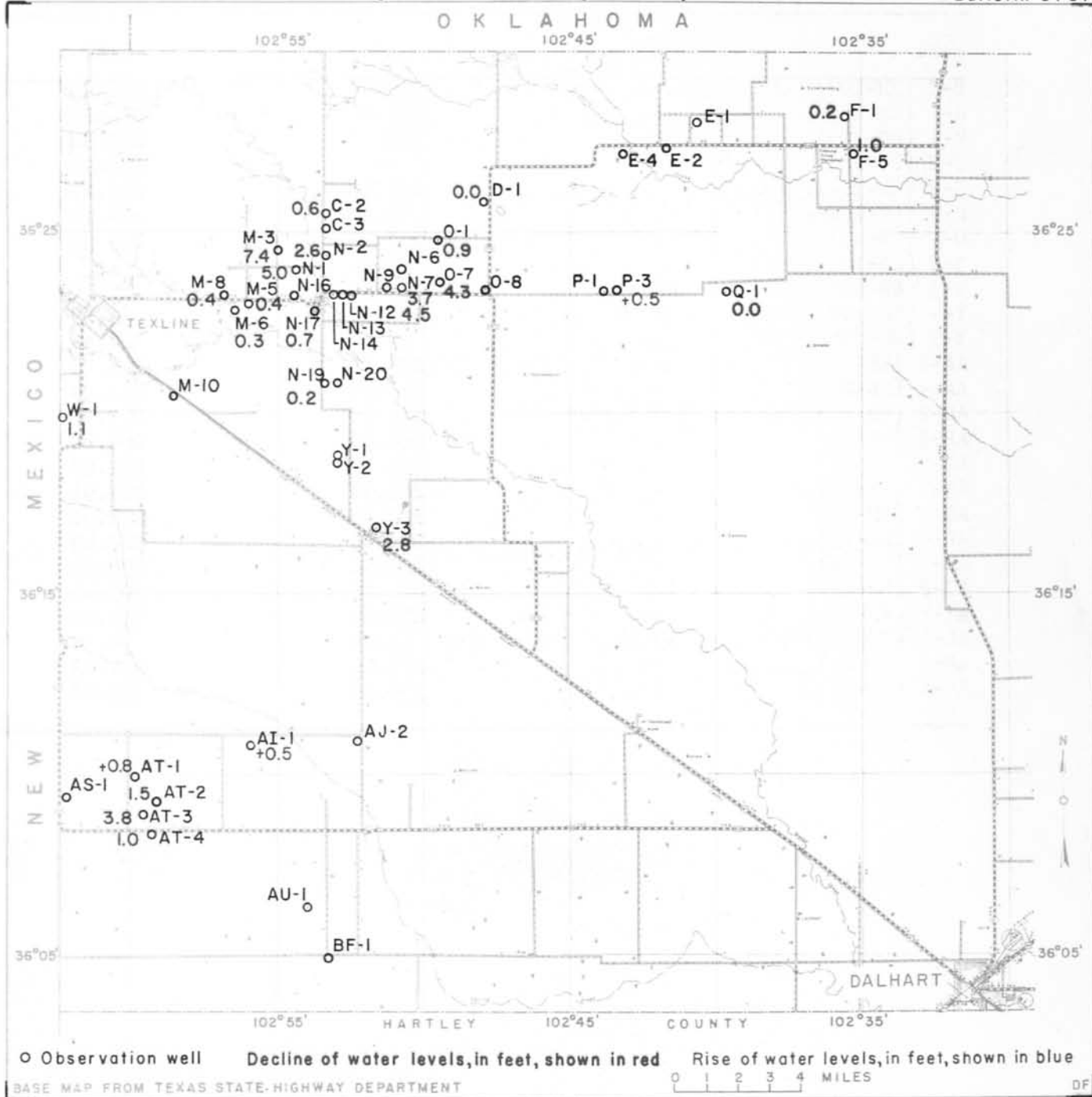
Depth to water in feet in January or March

Well	1955	1956	1957
C-2 (36a)	46.39	46.65	47.26
C-3 (11a)	58.15	--	60.45
D-1 (40)	3.65	3.55	3.55
E-1 (127a)	58.86	--	--
E-2 (128a)	54.40	--	--
E-4 (130a)	--	29.25	--
F-1 (243)	30.63	31.53	31.75
F-5 (241a)	35.36	37.62	38.65
M-3 (390)	68.15	71.80	b 79.19
M-5 (22a)	51.20	53.73	54.08
M-6 (391)	54.22	55.68	55.98
M-8 (20b)	52.26	53.48	53.87
M-10 (159)	58.10	--	--
N-1 (15a)	60.58	61.90	66.87
N-2 (51a)	67.20	68.00	70.55
N-6 (61)	32.92	--	40.67
N-7 (63)	32.35	35.01	38.66
N-9 (57)	45.27	--	53.27
N-12 (72)	64.40	66.35	70.85
N-13 (73a)	60.45	--	66.80
N-14 (73)	--	--	65.52
N-16 (16a)	49.85	--	61.69
N-17 (14)	50.48	b 55.30	55.95
N-19 (78a)	23.30	23.64	23.85
N-20 (79a)	--	--	20.05
O-1 (60)	70.57	71.65	72.55
O-7 (65)	21.76	24.32	28.60
O-8 (68)	46.35	--	47.45
P-1 (100)	14.00	--	--
P-3 (98)	20.38	20.40	19.88
Q-1 (136)	128.72	127.33	127.35
W-1 (172a)	89.47	89.26	90.34
Y-1 (402)	35.40	b 48.45	37.30
Y-2 (403)	36.64	b 49.57	38.64
Y-3 (401)	136.93	134.24	137.07
AI-1 (202a)	83.64	83.63	83.1
AJ-2 (190)	180.44	180.45	--
AS-1 (198)	111.70	--	--
AT-1 (200a)	99.46	99.60	98.76
AT-2 (201a)	91.84	91.92	b 93.40
AT-3 (213a)	107.07	107.70	111.45
AT-4 (208a)	81.96	81.90	82.87
AU-1 (218a)	170.22	--	--
BF-1 (218)	152.50	--	--

b pumped recently.

From records of Texas Board of Water Engineers and U.S. Geological Survey

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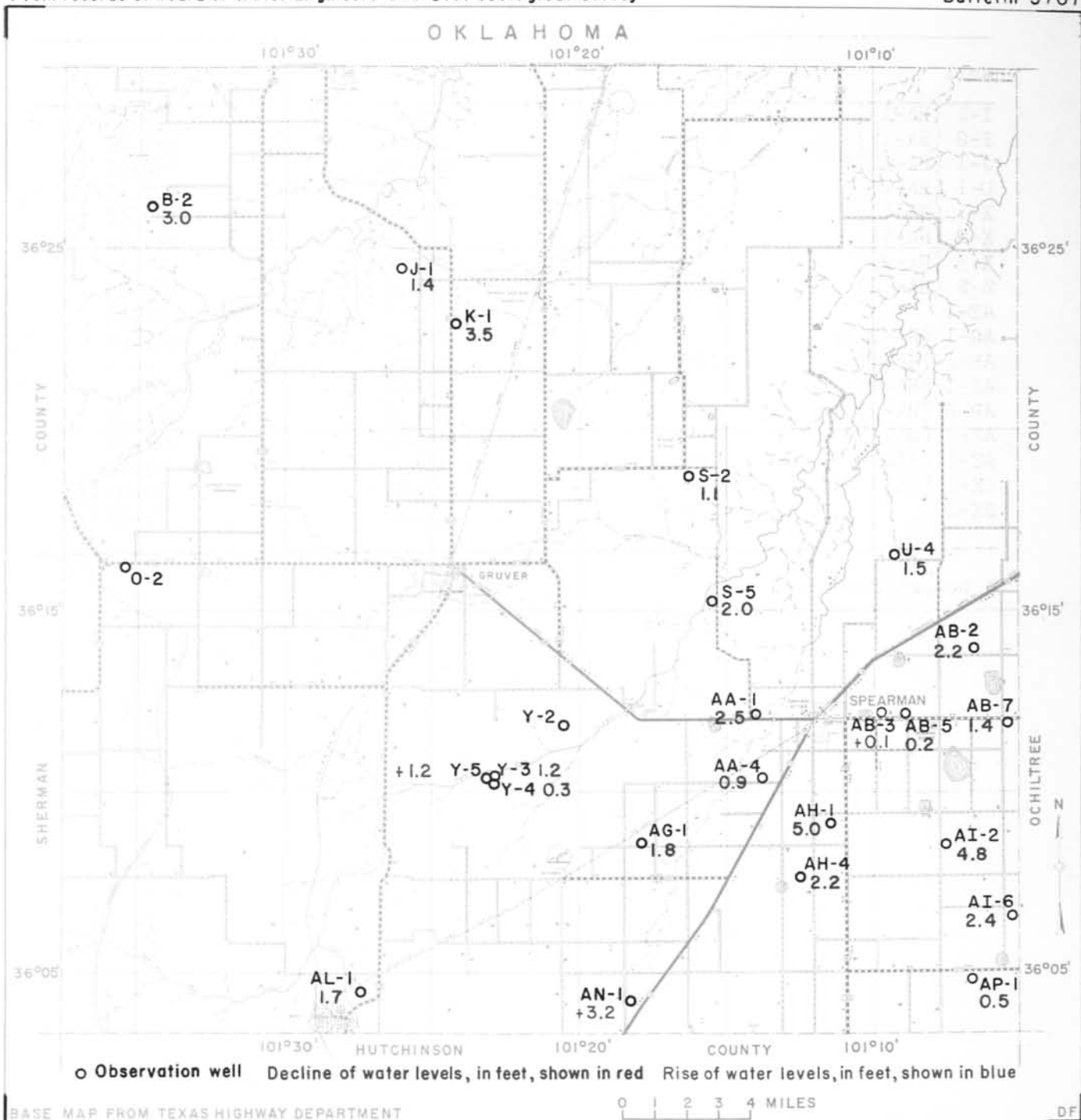
MAP SHOWING FLUCTUATION OF WATER LEVEL FROM MARCH 1956 TO MARCH 1957 AND LOCATION OF OBSERVATION WELLS IN DALLAM COUNTY, TEXAS

## WATER-LEVEL MEASUREMENTS IN HANSFORD COUNTY

Depth to water in feet in February or March  
 (A few measurements were made in January or April)

Well	1955	1956	1957
B-2 (HN-207)	--	219.00	222.00
J-1 (HN-133)	--	217.87	219.29
K-1 (HN-130)	--	219.10	222.56
O-2 (244)	--	--	178.36
S-2 (HN-95)	--	224.10	225.22
S-5 (HN-102)(351)	71.36	72.20	74.15
U-4 (HN-46)	--	237.79	239.33
Y-2 (HN-107)(353)	--	58.24	--
Y-3 (HN-108)(277)	28.18	25.90	27.10
Y-4 (HN-109)(276)	34.44	33.57	33.85
Y-5 (HN-108a)(352)	--	25.64	24.42
AA-1 (HN-3)	--	233.69	236.16
AA-4 (HN-200)	--	260.87	261.74
AB-2 (HN-40)(350)	270.40	271.10	273.30
AB-3 (HN-1)	--	264.88	264.82
AB-5 (HN-2)	--	271.10	271.27
AB-7 (HN-38)	--	283.50	284.91
AG-1 (HN-17)	--	277.09	278.90
AH-4 (HN-13)	--	284.45	289.42
AH-4 (HN-12)	--	295.90	298.10
AI-2 (HN-204)	--	300.65	305.40
AI-6 (HN-234)	--	229.60	332.00
AL-1 (HN-147)(354)	53.54	53.00	54.70
AN-1 (HN-25)	--	297.25	294.03
AP-1 (HN-14)	--	338.58	339.08





MAP SHOWING FLUCTUATION OF WATER LEVEL FROM MARCH 1956 TO FEBRUARY 1957 AND LOCATION OF OBSERVATION WELLS IN HANSFORD COUNTY, TEXAS

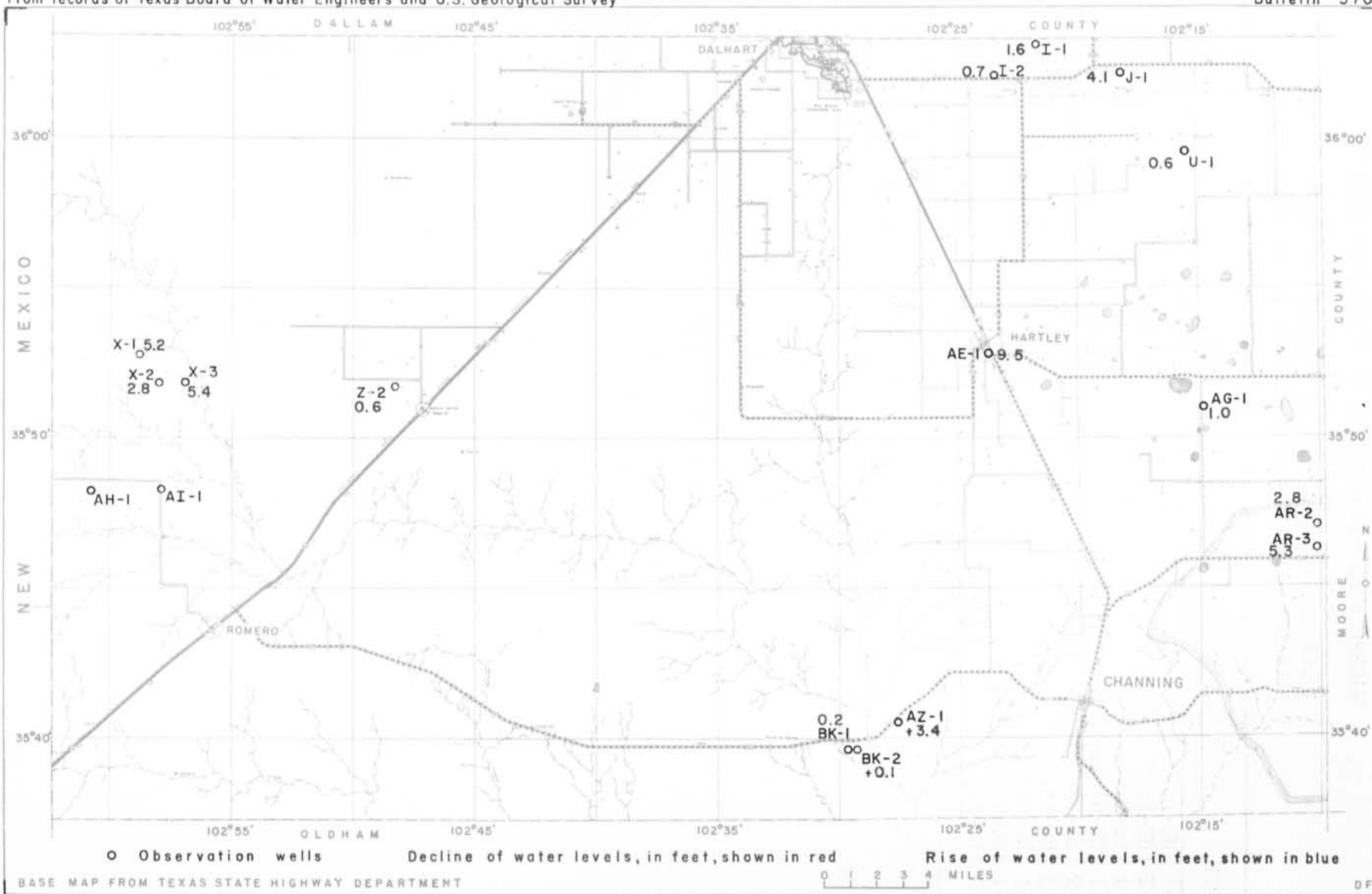
## WATER-LEVEL MEASUREMENTS IN HARTLEY COUNTY

Depth to water in feet in January  
 (A few measurements were made in December or February)

Well	1955	1956	1957
I-1 (HA-13)	--	318.55	320.12
I-2 (HA-14)	--	312.10	312.84
J-1 (HA-202)	--	297.79	302.90
U-1 (HA-27)	--	307.82	308.45
X-1 (HA-1)	132.75	135.64	140.87
X-2 (HA-4)	--	141.59	144.42
X-3 (HA-2)	--	131.90	137.30
Z-2 (HA-12)	198.11	199.26	199.89
AE-1	--	311.48	320.98
AG-1 (HA-201)	--	320.05	321.08
AH-1 (HA-5)	189.49	185.84	--
AI-1 (HA-10)	136.78	134.50	--
AR-2 (HA-39)	304.00	308.30	311.15
AR-3 (HA-33)	--	298.90	304.22
AZ-1 (362)	64.55	b 66.77	63.40
BK-1 (361)	33.77	33.90	34.05
BK-2	--	16.00	15.92

b pumped recently.

MAP SHOWING FLUCTUATION OF WATER LEVEL FROM MARCH 1957 TO FEBRUARY 1957  
 AND LOCATION OF OBSERVATION WELLS IN HARTLEY COUNTY, TEXAS



MAP SHOWING FLUCTUATION OF WATER LEVEL FROM FEBRUARY — MARCH OF 1956 TO 1957 AND LOCATION OF OBSERVATION WELLS IN HARTLEY COUNTY, TEXAS

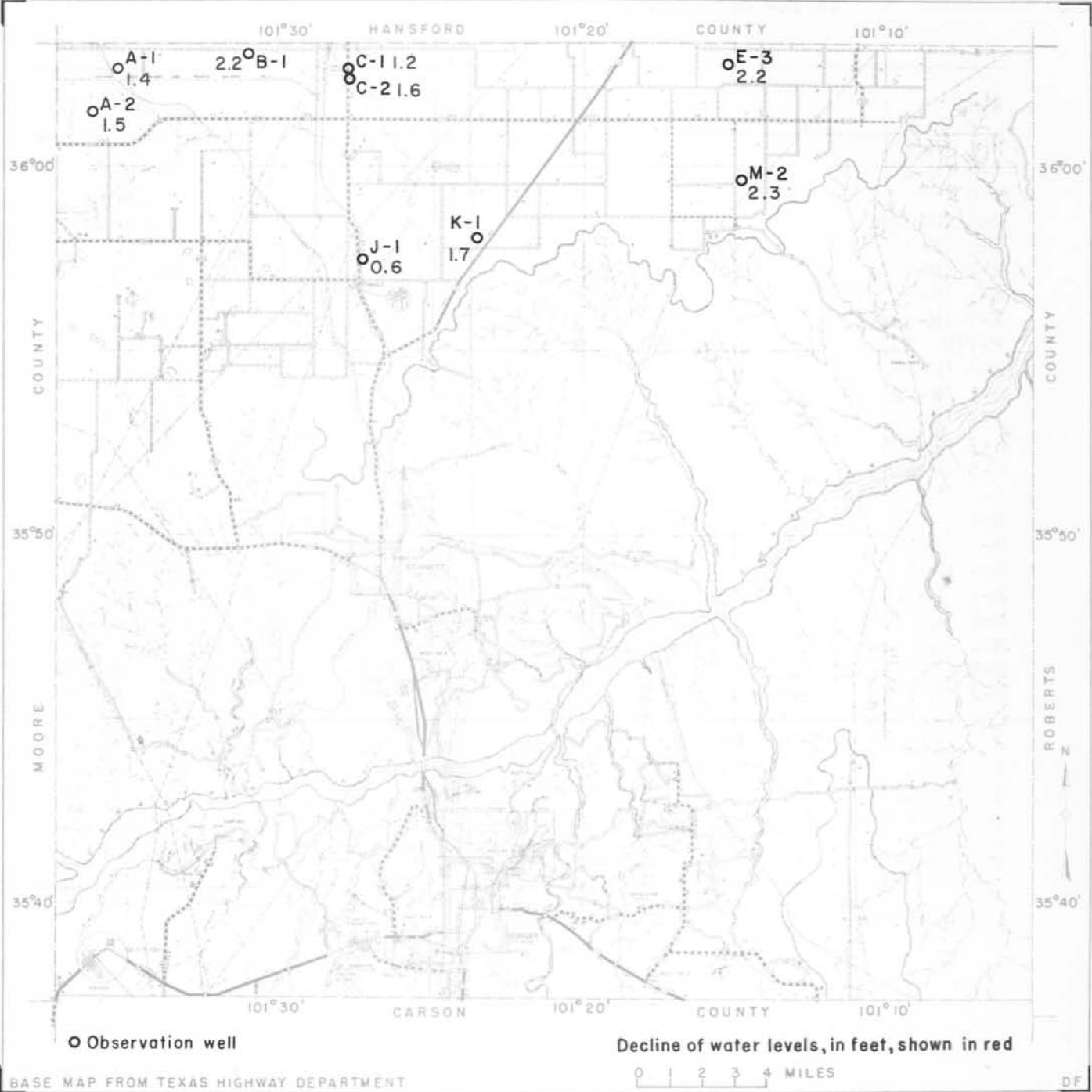
## WATER-LEVEL MEASUREMENTS IN HUTCHINSON COUNTY

Depth to water in feet in February or March  
(A few measurements were made in January)

Well	1955	1956	1957
A-1 (HU-14)	--	142.08	143.50
A-2 (HU-16)	--	146.79	148.32
B-1 (HU-20 <sup>a</sup> )	--	147.45	149.60
C-1 (HU-6) (1 <sub>a</sub> )	70.77	72.06	73.23
C-2 (HU-7) (1)	90.20	91.04	92.62
E-3 (HU-44)	--	326.43	328.65
J-1 (HU-34)	--	212.11	212.70
K-1 (HU-9)	--	264.35	266.04
M-2 (HU-52)	--	325.75	328.07

From records of Texas Board of Water Engineers and U.S. Geological Survey

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MAP SHOWING DECLINE OF WATER LEVEL FROM MARCH 1956 TO FEBRUARY 1957 AND LOCATION OF OBSERVATION WELLS IN HUTCHINSON COUNTY, TEXAS

## WATER-LEVEL MEASUREMENTS IN MOORE COUNTY

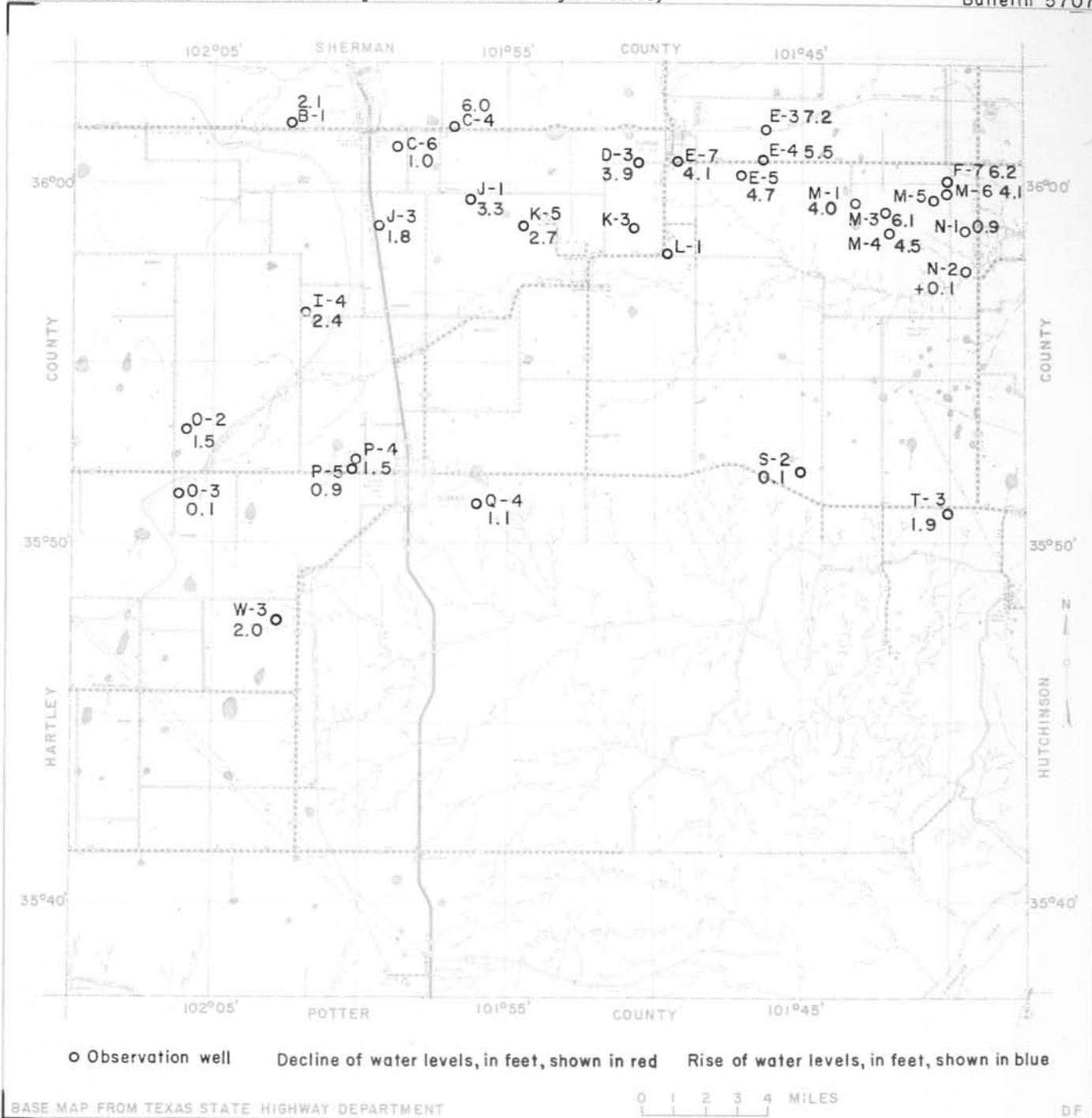
Depth to water in feet in January, February or March  
(A few measurements were made in December or April)

Well	1955	1956	1957
B-1 (M-216)	--	209.01	211.12
C-4 (M-27)	194.09	196.45	202.48
C-6	188.78	190.00	190.97
D-3 (M-36)	--	181.90	185.78
E-3 (M-181)	182.10	183.55	190.75
E-4 (M-47)	190.69	194.65	200.19
E-5 (M-46)(11)	190.70	193.89	198.54
E-7 (M-39)(9)	179.02	180.30	184.40
F-7(M-72)	164.40	164.97	171.15
I-4 (M-252)	--	235.08	237.45
J-1 (M-228)	--	200.97	204.24
J-3 (M-10)	--	217.25	219.08
K-3 (M-101)(13)	186.25	--	190.78
K-5 (M-125)	--	194.84	b 197.50
L-1 (M-98)(14)	185.73	--	189.80
M-1 (M-63)	175.56	178.70	182.69
M-3 (M-65)	185.33	183.43	189.50
M-4 (M-64)(6)	--	180.63	185.08
M-5 (M-74)	169.45	--	176.05
M-6 (M-73)	165.22	166.62	170.70
N-1 (3)	148.30	149.10	149.96
N-2 (M-75)(3a)	111.97	112.70	112.63
O-2 (M-148)	--	259.91	261.43
O-3 (M-150)	--	294.42	294.50
P-4 (M-146)	255.64	255.71	257.25
P-5 (M-145)	260.94	261.61	262.49
Q-4 (M-223)	--	246.26	247.33
S-2 (M-211)	--	200.50	200.61
T-3 (M-214)	--	224.67	226.54
W-3 (M-233)	--	285.00	287.03

b pumped recently

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MAP SHOWING FLUCTUATION OF WATER LEVEL FROM FEBRUARY-MARCH 1956 TO FEBRUARY 1957 AND LOCATION OF OBSERVATION WELLS IN MOORE COUNTY, TEXAS

## WATER-LEVEL MEASUREMENTS IN OCHILTREE COUNTY

Depth to water in feet in January or February  
(A few measurements were made in March)

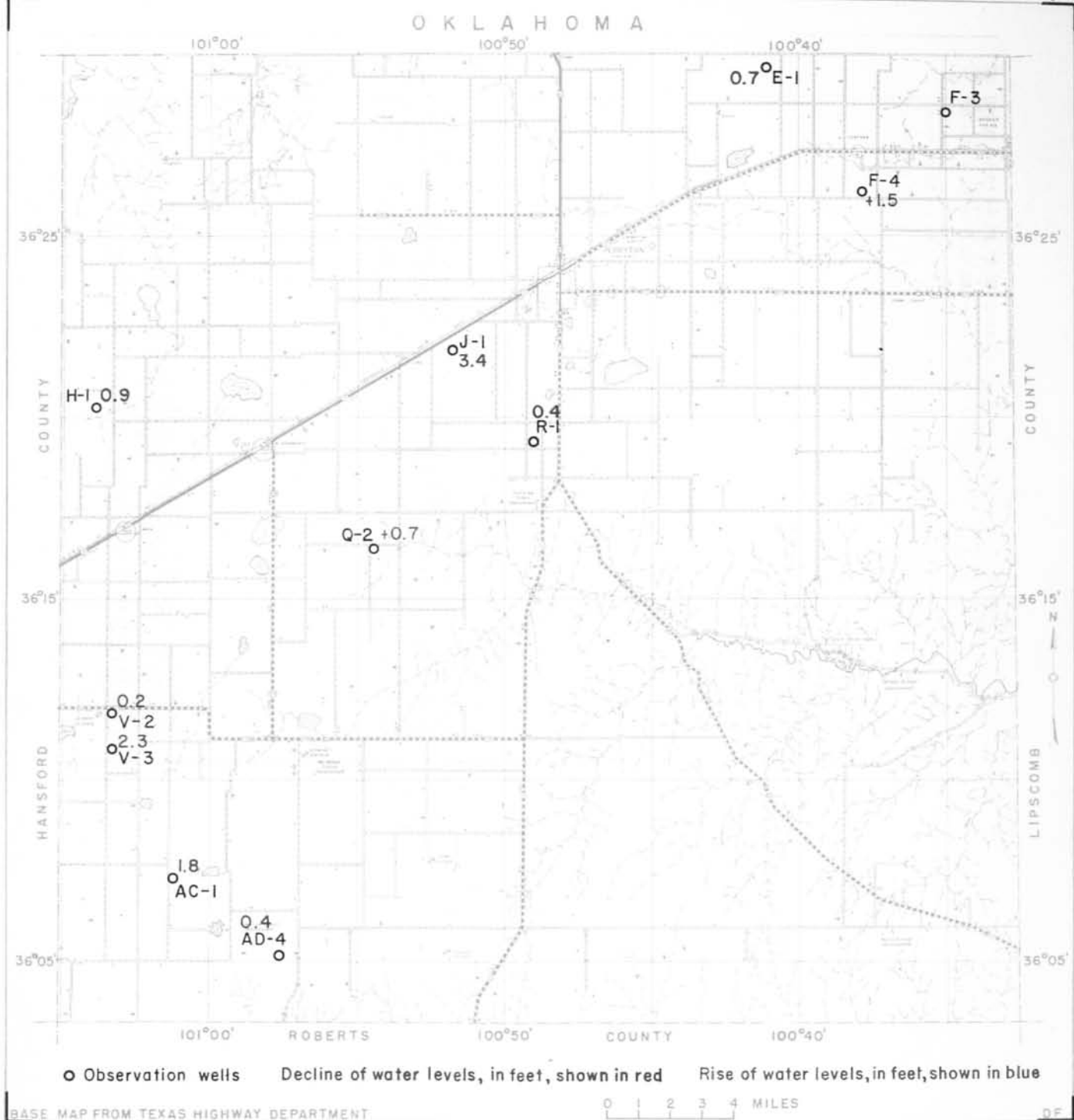
Well	1955	1956	1957
E-1 (0-31)	--	232.18	232.85
F-3 (0-3)	208.54	212.70	--
F-4 (0-36)	--	b225.70	225.25
H-1 (0-4)	--	223.19	224.09
J-1 (0-3)	245.32	246.79	250.19
Q-2 (0-49)	--	243.75	243.10
R-1 (0-12)	--	259.10	259.53
V-2 (0-9)(414a)	--	290.95	291.15
V-3 (0-10)(413a)	291.20	290.95	293.28
AC-1 (0-51)	--	338.73	340.54
AD-4 (0-44)	--	380.67	381.10

b pumped recently



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MAP SHOWING FLUCTUATION OF WATER LEVEL FROM FEBRUARY 1956 TO JANUARY 1957 AND LOCATION OF OBSERVATION WELLS IN OCHILTREE COUNTY, TEXAS

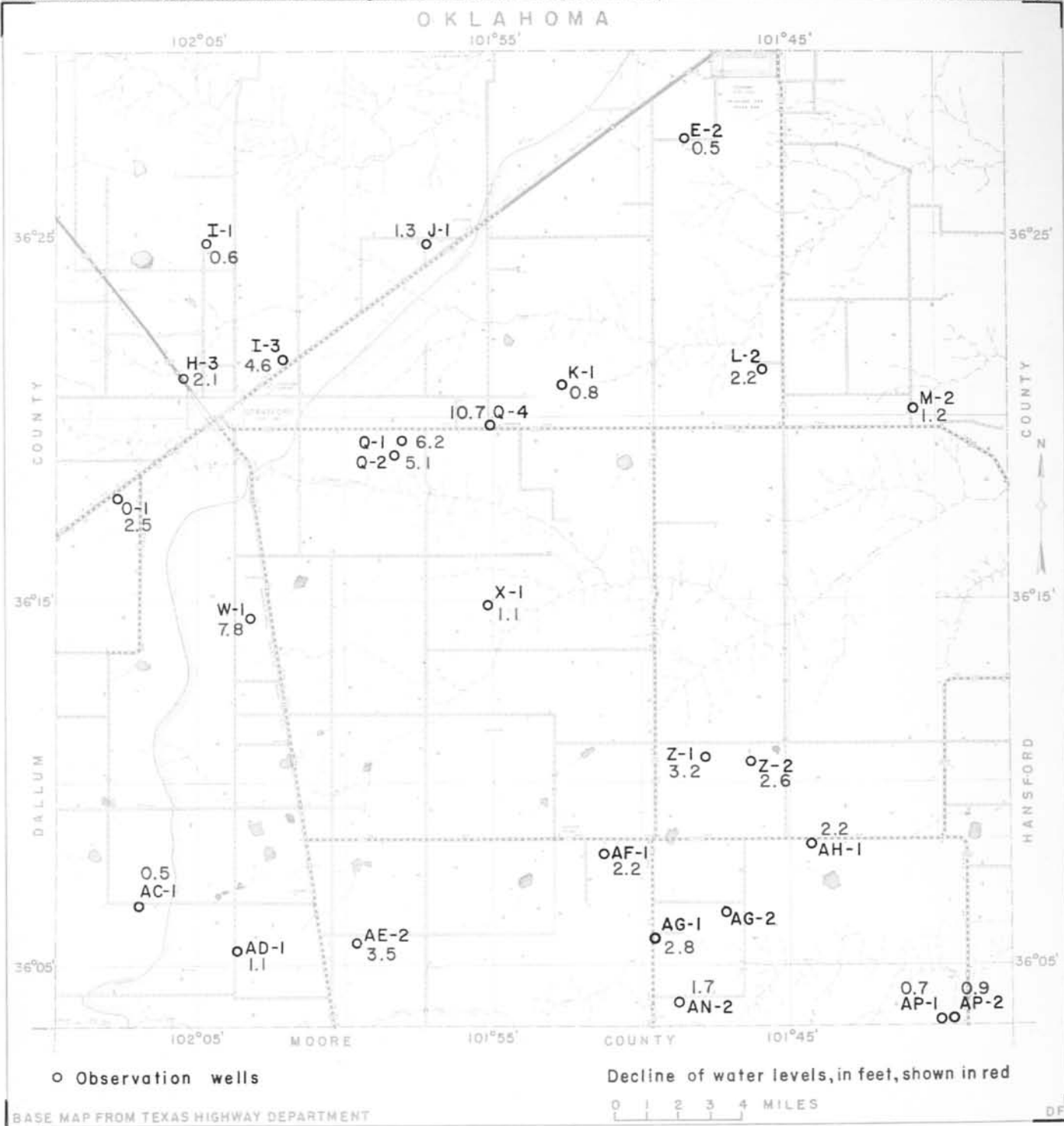
## WATER-LEVEL MEASUREMENTS IN SHERMAN COUNTY

Depth to water in feet in January or February

Well	1955	1956	1957
E-2 (S-86)	--	229.70	230.22
H-3 (S-1)	211.45	212.64	214.69
I-1 (S-3)	--	206.57	207.18
I-3 (S-78)	--	174.26	178.81
J-1 (S-37)	--	137.08	138.40
K-1 (S-115)	--	183.93	184.70
L-2 (S-21)	--	182.38	184.60
M-2 (S-92)	155.61	158.37	159.60
O-1 (S-214)	--	205.99	208.48
Q-1 (S-5)	--	178.28	184.50
Q-2 (S-210)	--	174.96	180.04
Q-4 (S-201)	--	175.57	186.22
W-1 (S-222)	--	187.02	194.80
X-1 (S-24)	162.50	162.70	163.76
Z-1 (S-67)	179.75	183.00	186.15
Z-2 (S-63)	168.72	170.98	173.58
AC-1 (S-34)	--	220.60	221.12
AD-1 (S-48)	205.20	205.20	206.25
AE-2 (S-38)	--	185.44	188.97
AF-1 (S-82) (8)	210.18	211.00	213.15
AG-1 (S-52)	191.13	192.50	195.27
AG-2 (S-53)	168.10	--	172.94
AH-1 (S-55)	--	152.15	154.35
AN-2 (S-14)	--	169.54	171.20
AP-1 (S-94)	145.44	146.57	147.31
AP-2 (S-95)	--	143.29	144.15

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MAP SHOWING DECLINE OF WATER LEVEL FROM FEBRUARY 1956 TO JANUARY-FEBRUARY 1957 AND LOCATION OF OBSERVATION WELLS IN SHERMAN COUNTY, TEXAS

