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Water-Level Measurement Tables
and Maps Showing Locations of Observation Wells

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WATER LEVELS IN OBSERVATION WELLS
NORTHERN HIGH PLAINS, TEXAS
1958 - 1960

INTRODUCTION

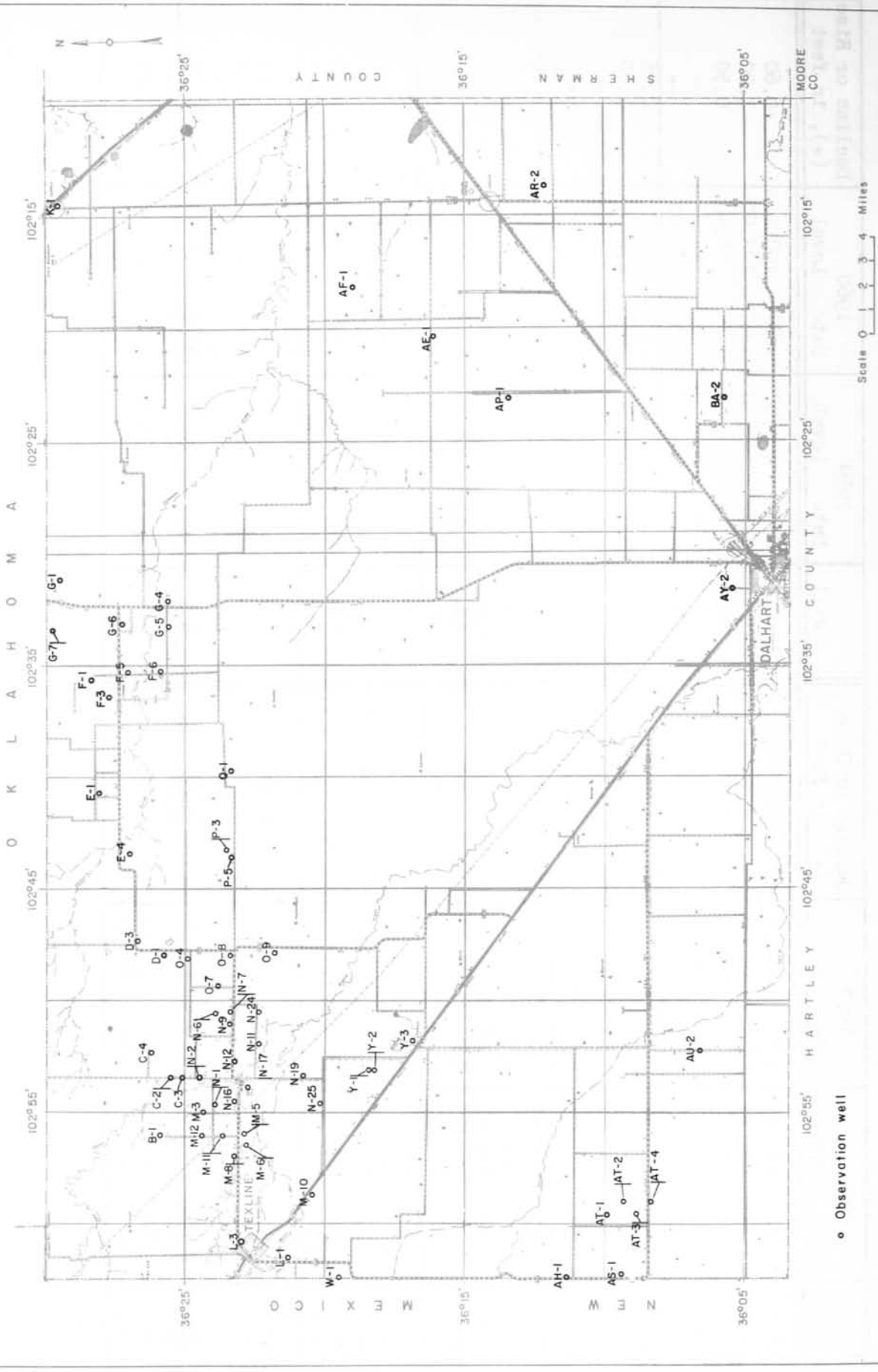
Periodic measurements of water levels are made in selected observation wells throughout the state to evaluate the effects of ground-water development in relation to available supply. The observation-well program on the North Plains was conducted by the Board of Water Engineers and the U.S.G.S. in cooperation with the Ground-Water Conservation District No. 2, North of the Canadian River.

This bulletin contains water-level measurements made during 1958, 1959, and 1960 in observation wells in 8 counties of the Northern High Plains of Texas. Changes in water levels from the winter of 1958-59 to the winter of 1959-60 are also shown in the tables.

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

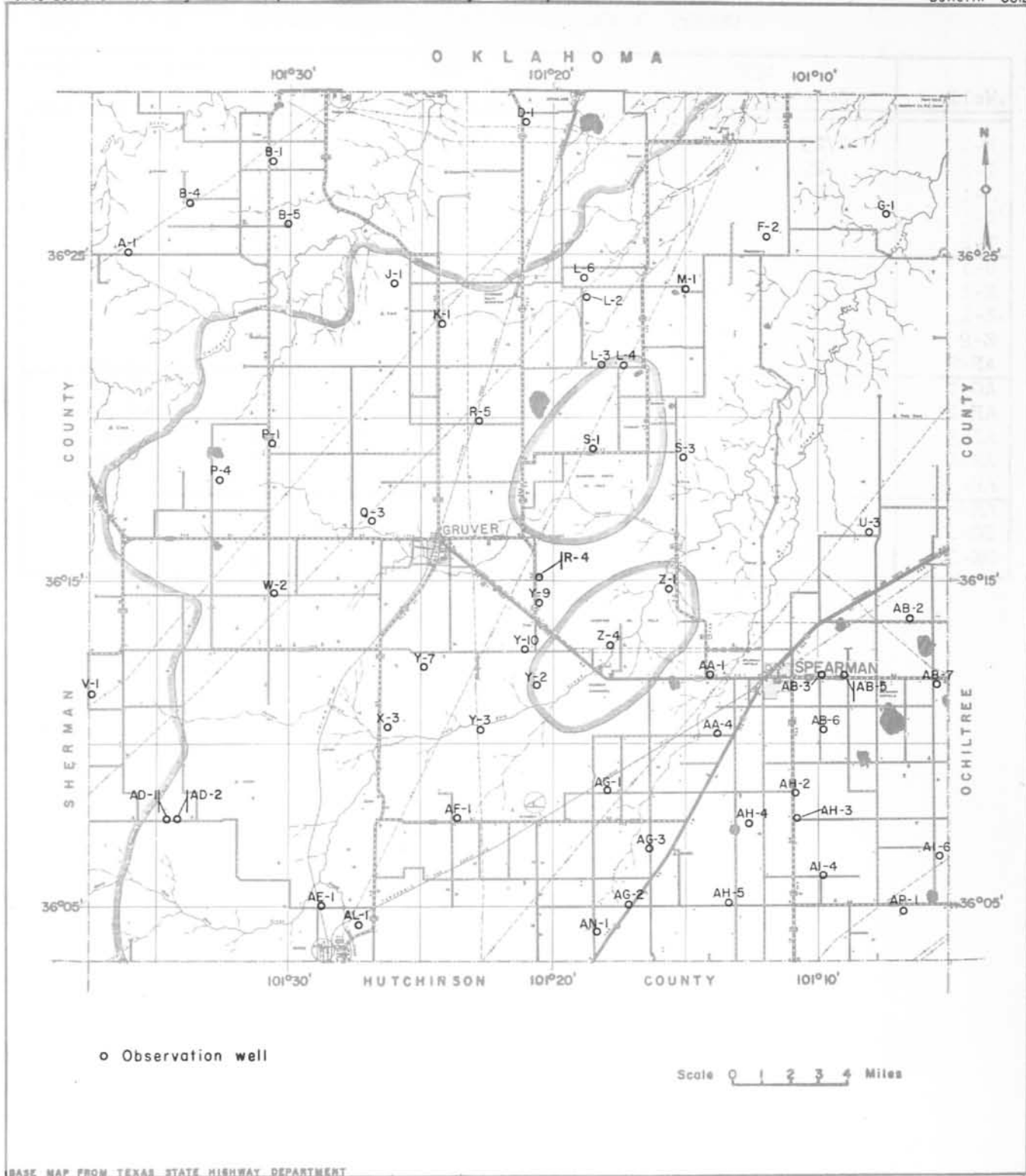
WATER-LEVEL MEASUREMENTS IN DALLAM
COUNTY IN FEET BELOW LAND-SURFACE DATUM

Well	1959		1960		Decline or Rise (+), in feet	Well	1959		1960		Decline or Rise (+), in feet
	Date	Level	Date	Level			Date	Level	Date	Level	
B-1	3/17	99.82	4/7	100.30	0.48	N-11	3/17	55.54	4/12	55.80	0.26
C-2	3/31	47.96	4/7	48.45	0.49	N-12	3/30	71.83	4/12	72.35	0.52
C-3	3/31	60.28	--	--	--	N-16	3/17	56.82	--	--	--
C-4	3/31	77.74	4/7	77.78	0.04	N-17	3/17	59.04	4/7	60.75	1.71
D-1	3/30	3.53	4/13	3.80	0.27	N-19	3/30	23.01	4/6	24.00	0.99
D-3	3/20	22.48	--	--	--	N-24	3/17	37.96	4/12	38.30	0.34
E-1	3/24	63.40	4/13	63.50	0.10	N-25	4/13	40.82	4/6	41.15	0.33
E-4	3/24	28.84	4/13	28.00	+0.84	O-4	3/30	10.46	4/12	10.20	+0.26
F-1	3/24	33.27	4/20	33.55	0.28	O-7	3/31	28.10	4/12	29.40	1.30
F-3	3/31	49.28	--	--	--	O-8	3/30	48.25	4/12	48.60	0.35
F-5	3/24	38.10	--	--	--	O-9	--	--	4/13	18.15	--
F-6	4/1	10.59	4/20	11.45	0.86	P-3	3/31	19.95	--	--	--
G-1	--	--	4/20	74.20	--	P-5	3/31	13.45	4/22	13.40	0.05
G-4	3/31	52.71	--	--	--	Q-1	3/31	126.65	4/20	126.80	0.15
G-5	3/20	63.07	--	--	--	W-1	3/12	88.68	4/6	88.00	+0.68
G-6	--	--	4/13	55.50	--	Y-1	3/30	35.11	4/6	35.70	0.59
G-7	3/31	56.99	4/20	56.70	+0.29	Y-2	3/30	36.28	4/6	37.10	0.82
K-1	4/7	255.29	4/21	254.90	+0.39	Y-3	3/30	133.60	4/6	131.60	+2.00
L-1	3/12	81.27	4/6	80.78	+0.49	AE-1	4/3	331.02	--	--	--
L-3	3/17	79.62	4/6	77.00	+2.62	AF-1	4/7	295.06	--	--	--
M-3	3/17	68.31	4/7	69.70	1.39	AH-1	3/19	126.22	4/11	126.35	0.13
M-5	3/17	55.16	4/7	55.70	0.54	AP-1	4/3	344.60	--	--	--
M-6	3/31	56.11	4/7	57.35	1.24	AR-2	4/2	283.71	--	--	--
M-8	3/17	52.88	4/7	54.10	1.22	AS-1	3/27	111.70	--	--	--
M-10	4/13	51.91	4/6	56.20	4.29	AT-1	3/27	98.89	4/11	98.17	+0.72
M-11	3/17	74.42	4/7	73.30	+1.12	AT-2	3/19	92.96	4/11	92.10	+0.86
M-12	3/17	61.38	4/7	61.00	+0.38	AT-3	3/19	108.45	4/11	107.15	+1.30
N-1	3/17	66.58	4/7	67.10	0.52	AT-4	3/19	83.15	4/11	82.45	+0.70
N-2	3/30	71.10	4/7	70.54	+0.56	AU-2	3/19	142.50	4/11	142.05	+0.45
N-6	3/30	41.98	--	--	--	AY-2	4/7	254.78	4/11	248.25	+7.23
N-7	3/30	40.38	4/12	41.00	0.62	BA-2	4/3	301.27	--	--	--
N-9	3/30	52.48	--	--	--						



WATER-LEVEL MEASUREMENTS IN HANSFORD
COUNTY IN FEET BELOW LAND-SURFACE DATUM

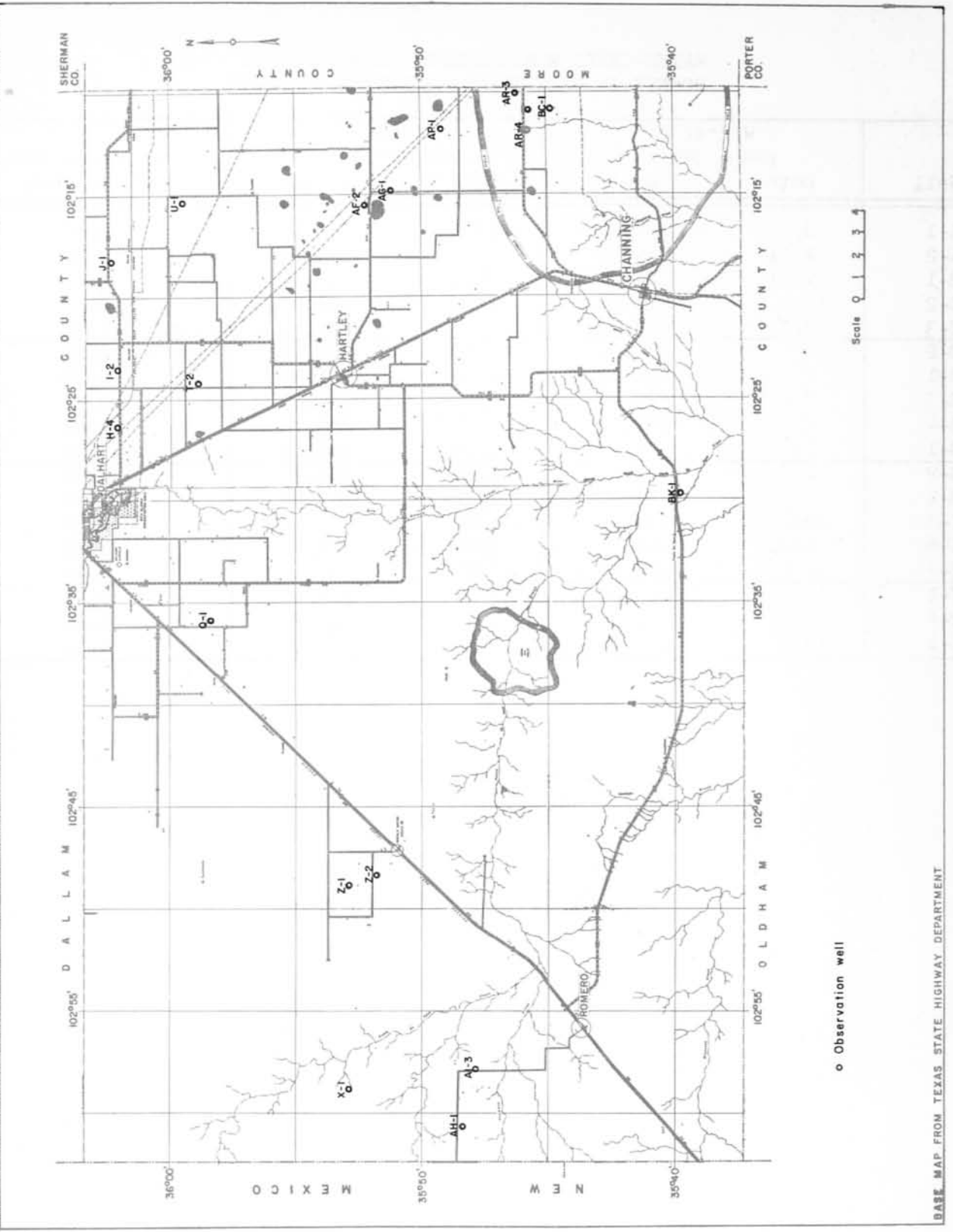
Well	1959		1960		Decline or Rise (+), in feet	Well	1959		1960		Decline or Rise (+), in feet
	Date	Level	Date	Level			Date	Level	Date	Level	
A-1	3/11	137.67	2/17	136.10	+1.57	Y-9	3/11	198.80	1/26	198.20	+0.60
B-1	3/11	188.96	2/17	189.05	0.09	Y-10	3/12	192.90	1/13	193.90	1.00
B-4	3/11	209.78	2/17	209.90	0.12	Z-1	3/12	74.90	2/16	75.40	0.50
B-5	3/11	184.78	2/17	184.85	0.07	Z-4	--	57.60	--	--	--
D-1	3/11	190.86	--	--	--	AA-1	--	--	1/13	238.00	--
F-2	3/13	189.35	--	--	--	AA-4	3/13	264.50	1/15	265.15	0.65
G-1	3/13	48.05	2/2	48.50	0.45	AB-2	3/13	274.65	2/16	275.85	1.20
J-1	3/11	220.68	2/17	219.85	+0.83	AB-3	--	--	1/26	267.65	--
K-1	3/11	222.53	2/17	223.40	0.87	AB-5	3/13	273.90	1/26	273.72	+0.18
L-2	--	--	1/26	206.80	--	AB-6	3/13	279.40	1/26	280.35	0.95
L-3	3/12	211.65	--	--	--	AB-7	2/13	284.95	1/12	286.35	1.40
L-4	--	--	1/27	213.75	--	AD-1	3/11	158.30	2/18	158.15	+0.15
L-6	3/13	201.40	1/27	203.90	2.50	AD-2	3/11	156.00	2/18	156.00	0.00
M-1	--	--	2/2	185.90	--	AE-1	3/11	47.98	1/13	49.15	1.17
P-1	3/11	178.60	2/25	179.10	0.50	AF-1	3/12	206.18	1/15	205.85	+0.33
P-4	3/11	180.57	2/25	181.00	0.43	AG-1	--	--	1/15	280.60	--
Q-3	--	--	2/17	163.80	--	AG-2	3/13	308.80	--	--	--
R-4	3/11	203.10	1/26	203.90	0.80	AG-3	--	--	1/15	298.80	--
R-5	--	--	1/27	226.80	--	AH-2	3/13	292.70	1/11	294.70	2.00
S-1	3/12	218.00	2/2	219.20	1.20	AH-3	--	--	1/11	298.50	--
S-3	--	--	1/27	219.00	--	AH-4	--	--	1/11	300.65	--
U-3	3/13	244.80	2/16	246.10	1.30	AH-5	3/13	321.95	1/15	322.90	0.95
V-1	2/19	152.28	2/17	153.90	1.62	AI-4	3/13	331.65	1/11	332.55	0.90
W-2	3/11	154.32	2/17	154.75	0.43	AI-6	--	--	1/11	331.90	--
X-3	3/11	60.17	1/13	60.60	0.43	AL-1	3/12	53.35	1/13	54.20	0.85
Y-2	3/12	59.10	1/13	59.70	0.60	AN-1	--	--	1/15	296.20	--
Y-3	3/12	26.50	1/13	26.50	0.00	AP-1	3/13	340.35	1/11	341.40	1.05
Y-7	--	--	1/13	182.50	--						



HANSFORD COUNTY, CHANGE IN WATER LEVELS

WATER-LEVEL MEASUREMENTS IN HARTLEY
COUNTY IN FEET BELOW LAND-SURFACE DATUM

Well	1959		1960		Decline or Rise (+), in feet
	Date	Level	Date	Level	
H-4	1/29	300.36	3/23	300.65	0.29
I-2	1/29	314.20	3/22	314.22	0.02
J-1	1/29	301.59	3/22	300.47	+1.12
Q-1	1/28	182.59	3/23	182.80	0.21
T-2	2/9	329.70	3/23	331.10	1.40
U-1	1/29	307.94	3/22	308.00	0.06
X-1	1/14	134.30	3/18	132.95	+1.35
Z-1	1/13	201.80	3/23	201.60	+0.20
Z-2	1/13	199.50	3/23	199.30	+0.20
AF-2	2/17	327.56	3/17	327.85	0.29
AG-1	2/17	320.75	3/17	320.86	0.11
AH-1	1/14	186.03	3/18	185.73	+0.30
AI-3	1/14	134.24	3/18	133.94	+0.30
AR-1	2/17	312.80	3/17	313.40	0.60
AR-3	2/17	303.15	3/17	303.50	0.35
AR-4	2/17	294.57	3/17	295.40	0.83
BC-1	2/17	287.10	3/17	288.60	1.50
BK-1	1/14	33.98	3/18	34.00	0.02

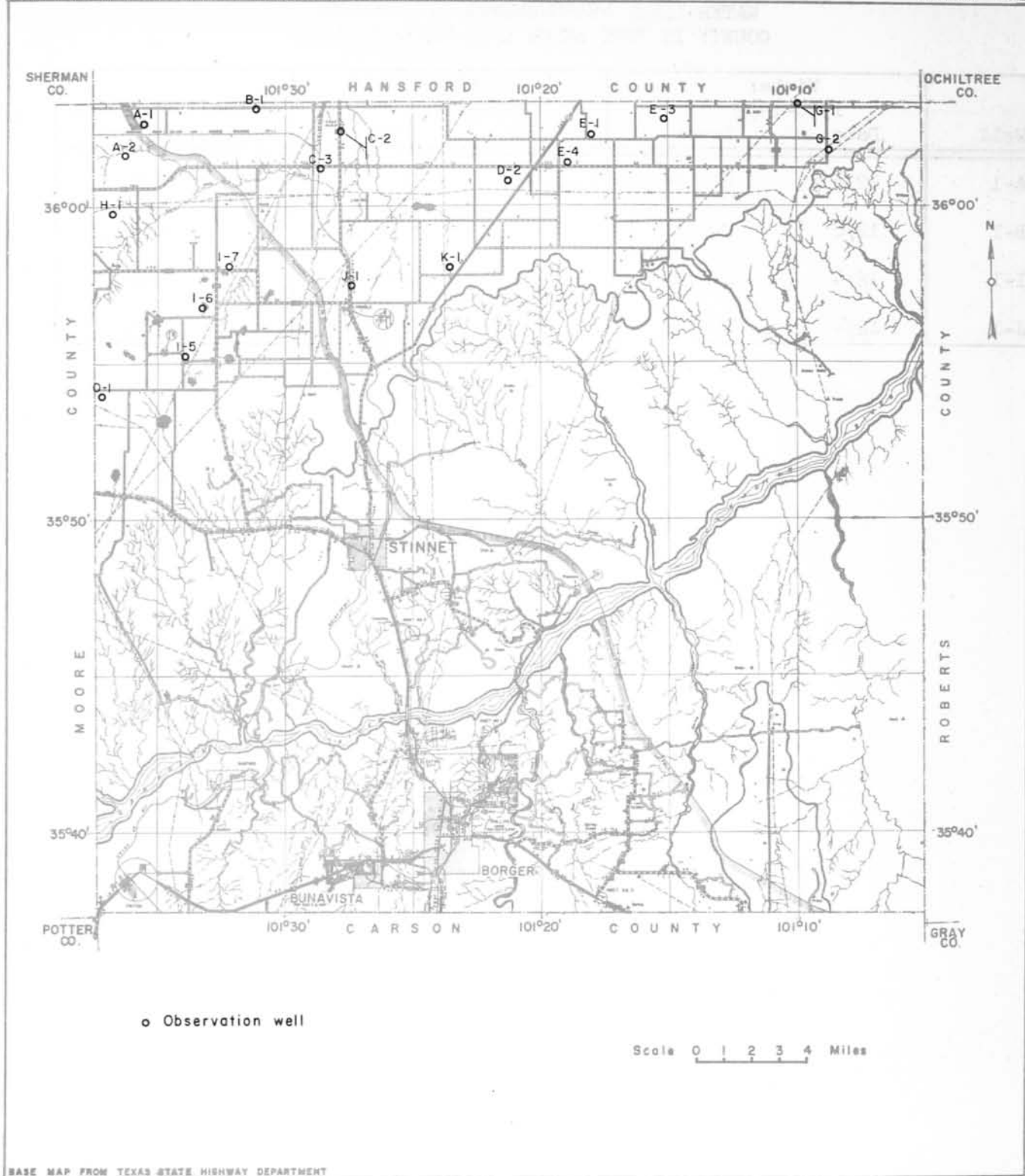


BASE MAP FROM TEXAS STATE HIGHWAY DEPARTMENT

HARTLEY COUNTY, CHANGE IN WATER LEVELS

WATER-LEVEL MEASUREMENTS IN HUTCHINSON
COUNTY IN FEET BELOW LAND-SURFACE DATUM

Well	Winter 1958-1959		Winter 1959-1960		Decline or Rise (+), in feet
	Date	Level	Date	Level	
A-1	2/21	144.38	2/18	145.15	0.77
A-2	2/21	149.35	2/18	149.83	0.48
B-1	2/21	152.00	1/28	153.65	1.65
C-2	12/8	91.98	1/28	92.15	0.17
C-3	2/21	110.35	1/28	111.65	1.30
D-2	2/6	275.92	2/18	276.55	0.63
E-1	2/6	291.63	1/29	291.73	0.10
E-3	2/6	333.45	2/18	334.20	0.75
E-4	2/6	282.30	1/29	283.70	1.40
G-1	2/6	344.00	1/29	345.10	1.10
G-2	2/6	362.60	1/29	363.30	0.70
H-1	2/21	163.65	2/18	163.95	0.30
I-5	12/8	237.90	1/28	239.42	1.52
I-6	2/21	214.55	1/28	215.65	1.10
I-7	12/8	207.70	1/28	208.10	0.40
J-1	12/8	213.90	1/28	214.35	0.45
K-1	2/6	265.35	1/29	266.27	0.92
O-1	12/8	225.35	2/18	227.00	1.65

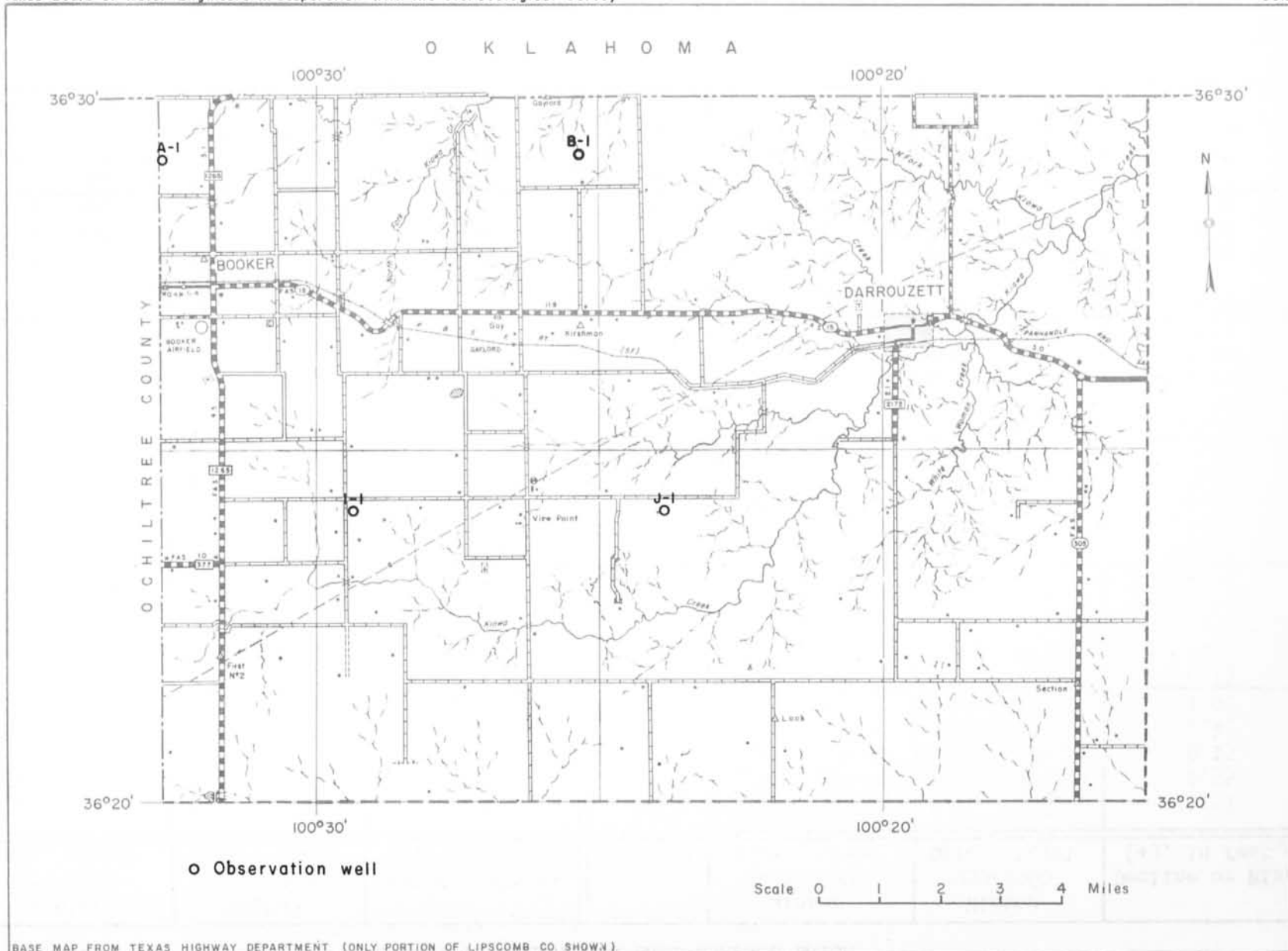


HUTCHINSON COUNTY, CHANGE IN WATER LEVELS

WATER-LEVEL MEASUREMENTS IN LIPSCOMB
COUNTY IN FEET BELOW LAND-SURFACE DATUM

Well	Winter 1958-1959		Winter 1959-1960		Decline or Rise (+), in feet
	Date	Level	Date	Level	
A-1	12/4	210.64	1/9	211.20	0.56
B-1	12/8	200.98	1/9	201.48	0.50
I-1	12/4	190.02	1/9	190.70	0.68
J-1	12/4	174.35	1/9	175.10	0.75

O K L A H O M A



o Observation well

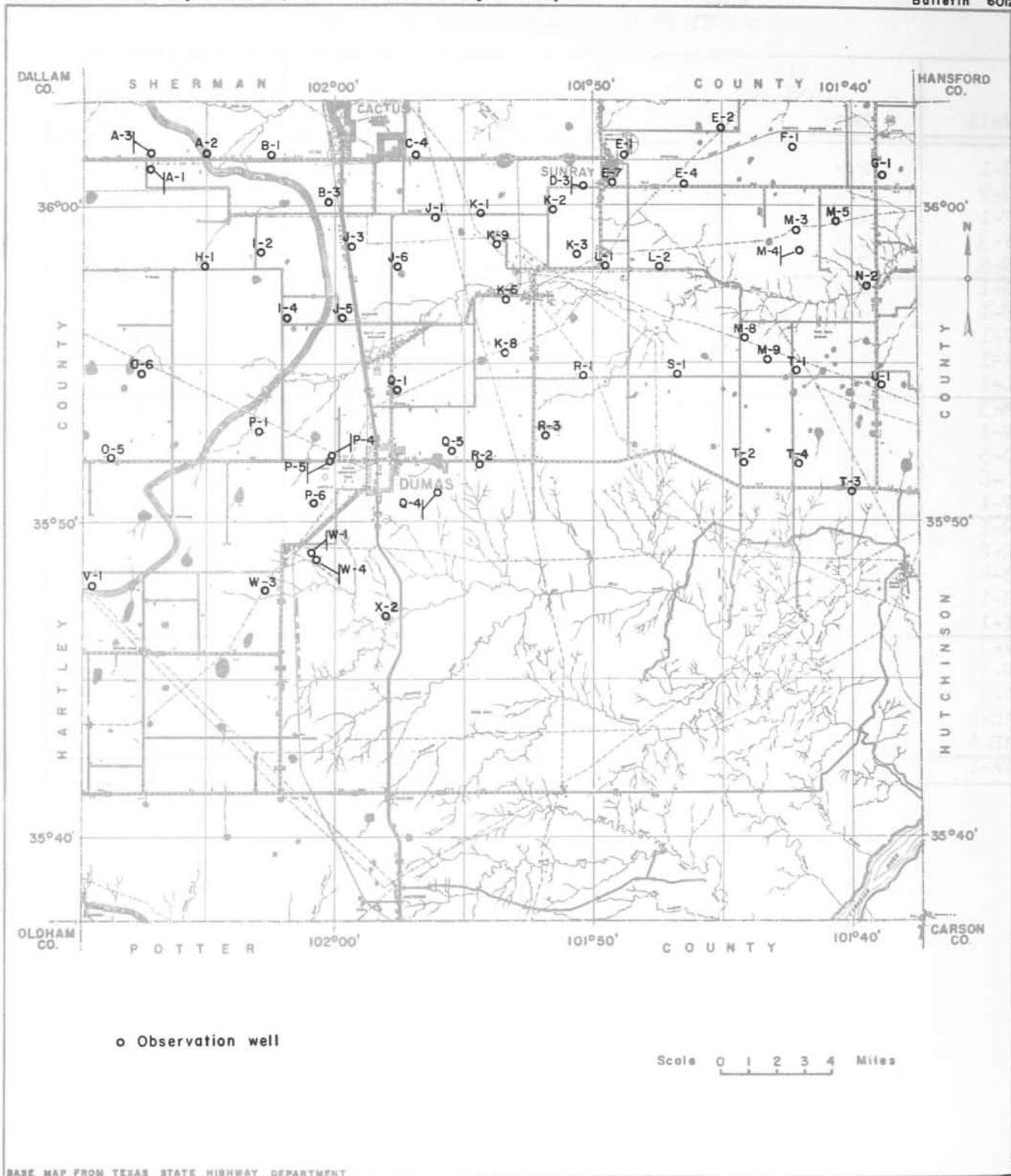
Scale 0 1 2 3 4 Miles

BASE MAP FROM TEXAS HIGHWAY DEPARTMENT (ONLY PORTION OF LIPSCOMB CO. SHOWN)

LIPSCOMB COUNTY, CHANGE IN WATER LEVELS

WATER-LEVEL MEASUREMENTS IN MOORE
COUNTY IN FEET BELOW LAND-SURFACE DATUM

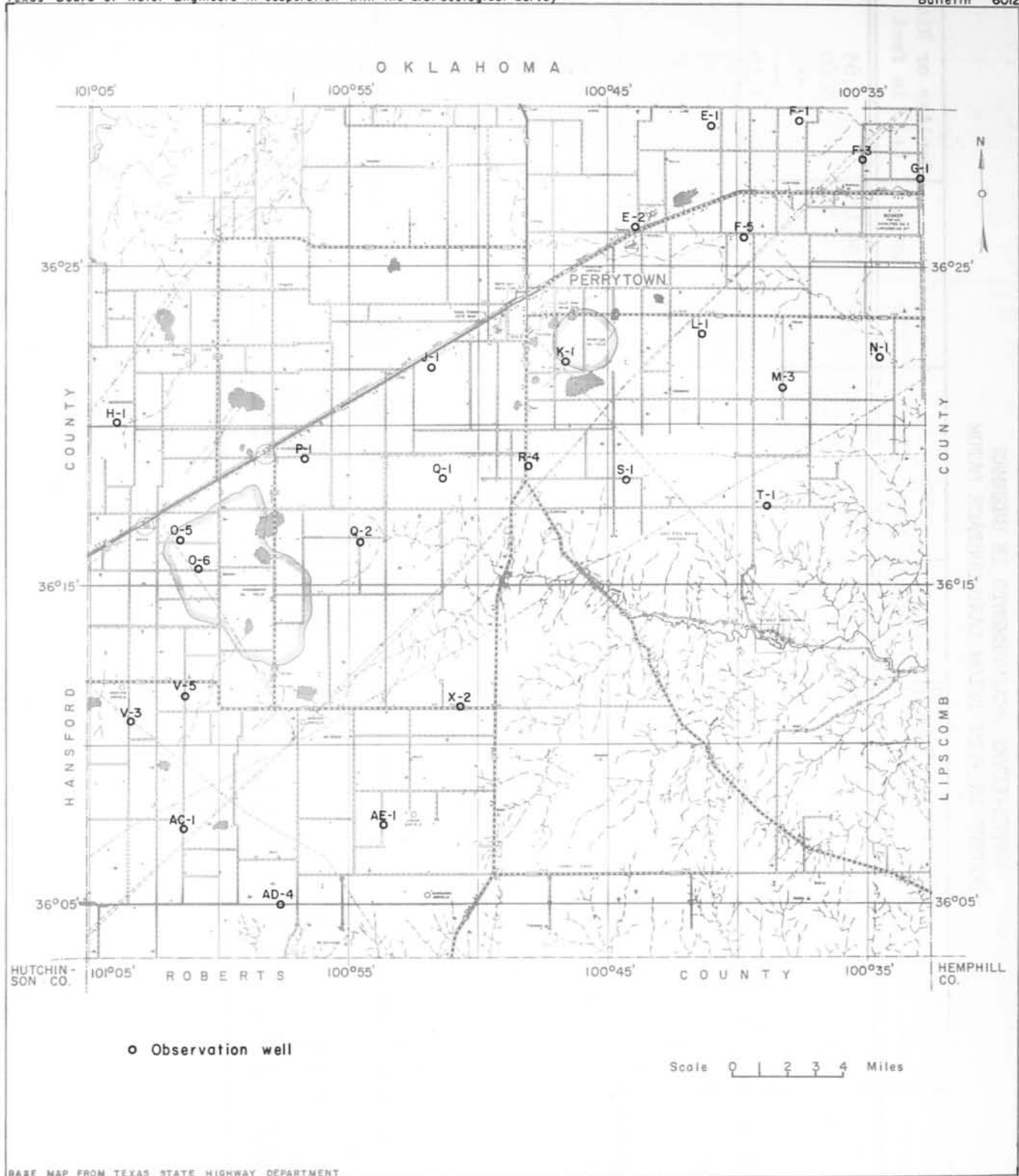
Well	Winter 1958-1959		Winter 1959-1960		Decline or Rise (+), in feet	Well	Winter 1958-1959		Winter 1959-1960		Decline or Rise (+), in feet
	Date	Level	Date	Level			Date	Level	Date	Level	
A-1	2/20	247.85	2/11	249.65	1.80	M-4	2/24	186.85	2/22	188.52	1.67
A-2	2/20	229.60	2/11	230.30	0.70	M-5	3/10	178.75	2/22	181.30	2.55
A-3	2/20	247.60	--	--	--	M-8	2/21	164.00	2/25	164.15	0.15
B-1	2/20	212.84	2/11	214.30	1.46	M-9	2/21	182.45	2/25	183.90	1.45
B-3	2/23	218.25	2/11	220.60	2.35	N-2	12/8	113.61	2/22	114.61	1.00
C-4	2/20	201.10	3/8	203.00	1.90	O-5	2/20	304.85	2/11	305.00	0.15
D-3	2/23	187.80	3/7	189.80	2.00	O-6	2/20	271.55	2/11	271.60	0.05
E-1	--	--	3/8	178.80	--	P-1	12/16	249.47	2/10	247.90	+1.57
E-2	2/24	193.01	2/22	194.04	1.03	P-4	12/16	257.17	3/17	256.70	+0.47
E-4	12/19	202.98	2/22	204.55	1.57	P-5	12/16	262.28	3/17	262.00	0.28
E-7	2/23	186.35	3/7	189.10	2.75	P-6	2/20	274.33	2/10	274.10	+0.23
F-1	2/24	165.00	2/22	166.00	1.00	Q-1	2/23	238.50	2/11	239.60	1.10
G-1	2/24	159.83	3/7	160.20	0.37	Q-4	2/23	247.20	3/1	246.80	+0.40
H-1	2/20	260.76	2/11	261.90	1.14	Q-5	2/23	240.80	3/1	241.05	0.25
I-2	2/20	228.95	2/11	230.45	1.50	R-1	2/23	202.50	3/1	202.82	0.32
I-4	2/23	238.80	2/11	239.50	0.70	R-2	2/23	253.10	3/1	252.70	+0.32
J-1	2/23	207.20	2/11	209.30	2.10	R-3	2/23	236.00	3/1	236.05	0.05
J-3	2/23	220.40	2/11	223.10	2.70	S-1	2/21	181.00	2/25	181.25	0.25
J-5	2/23	213.10	2/11	214.50	1.40	T-1	2/21	181.30	2/25	182.90	1.60
J-6	2/23	211.75	2/11	214.15	2.40	T-2	2/21	201.05	3/1	201.60	0.55
K-1	2/23	200.85	2/11	202.90	2.05	T-3	2/21	227.70	3/1	227.70	0.00
K-2	2/23	196.40	3/7	198.55	2.15	T-4	2/21	206.95	--	--	--
K-3	2/23	192.95	3/7	195.50	2.55	U-1	2/21	204.50	2/25	205.50	1.00
K-6	2/23	198.40	2/22	198.15	+0.25	V-1	2/17	310.57	2/10	311.45	0.88
K-8	2/23	205.25	3/1	205.55	0.30	W-1	2/20	267.98	2/10	268.30	0.32
K-9	2/23	211.10	2/22	214.00	2.90	W-3	2/17	286.80	2/10	286.70	+0.10
L-1	2/23	191.32	2/22	193.10	1.78	W-4	2/20	250.48	2/10	250.55	0.07
L-2	2/23	178.10	2/22	179.40	1.30	X-2	2/20	101.20	2/10	101.35	0.15
M-3	2/24	190.12	2/22	192.05	1.93						



MOORE COUNTY, CHANGE IN WATER LEVELS

WATER-LEVEL MEASUREMENTS IN OCHILTREE
COUNTY IN FEET BELOW LAND-SURFACE DATUM

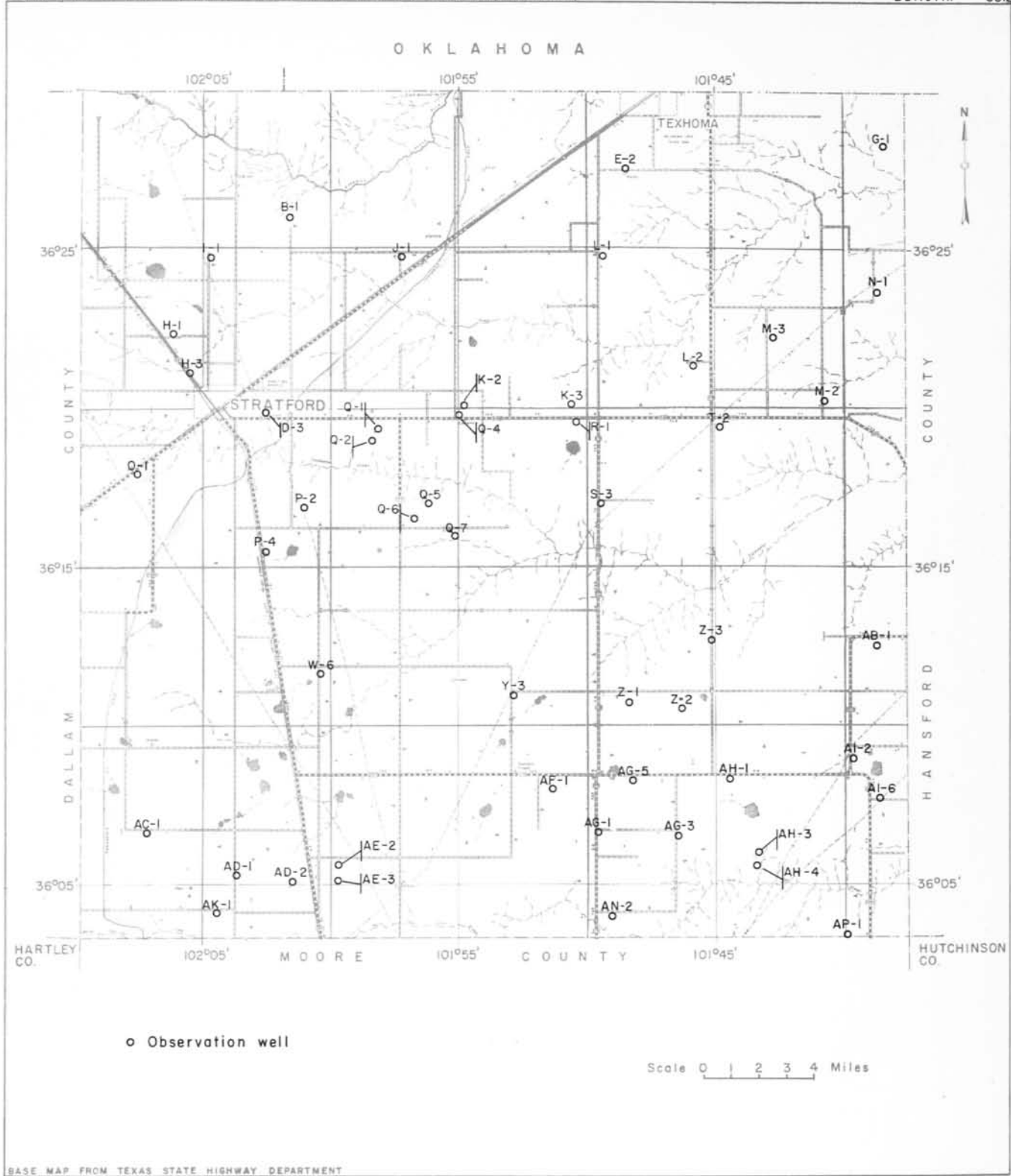
Well	Winter 1958-1959		Winter 1959-1960		Decline or Rise (+), in feet
	Date	Level	Date	Level	
E-1	12/4	232.10	1/9	232.90	0.80
E-2	12/4	236.90	1/9	237.30	0.40
F-1	12/4	215.34	1/9	215.70	0.36
F-3	12/4	209.96	1/9	211.20	1.24
F-5	2/12	234.45	1/9	234.60	0.15
G-1	12/4	205.85	1/9	206.70	0.85
H-1	12/5	224.38	1/13	224.75	0.37
J-1	12/4	249.10	1/9	249.90	0.80
K-1	12/3	226.23	1/12	226.30	0.07
L-1	12/4	244.15	1/12	244.15	0.00
M-3	2/13	233.60	--	--	--
N-1	12/4	216.00	--	--	--
O-5	2/13	240.88	2/16	243.30	2.42
O-6	2/13	245.40	2/16	247.65	2.25
P-1	12/4	243.15	1/8	243.22	0.07
Q-1	12/3	253.72	1/12	253.80	0.08
Q-2	2/6	243.00	1/8	243.40	0.40
R-4	12/3	262.88	1/12	263.10	0.22
S-1	12/3	204.14	1/12	205.04	0.90
T-1	12/3	261.75	--	--	--
V-3	2/13	293.70	--	--	--
V-5	12/11	285.18	1/8	285.78	0.60
X-2	12/11	304.25	1/8	304.60	0.35
AC-1	12/11	341.08	1/11	341.35	0.27
AD-4	2/6	381.34	--	--	--
AE-1	12/11	357.15	1/11	357.10	+0.05



OCHILTREE COUNTY, CHANGE IN WATER LEVELS

WATER-LEVEL MEASUREMENTS IN SHERMAN
COUNTY IN FEET BELOW LAND-SURFACE DATUM

Well	1959		1960		Decline or Rise (+), in feet	Well	1959		1960		Decline or Rise (+), in feet
	Date	Level	Date	Level			Date	Level	Date	Level	
B-1	2/10	175.50	2/12	175.90	0.40	T-2	2/19	196.00	3/11	196.85	0.85
E-2	1/14	229.94	--	--	--	W-6	1/12	178.80	2/12	179.40	0.60
G-1	1/14	74.85	3/11	74.95	0.10	Y-3	1/13	157.31	3/9	157.31	--
H-1	1/14	216.02	2/12	215.80	+0.22	Z-1	1/13	187.12	--	--	--
H-3	1/14	215.03	2/12	215.20	0.17	Z-2	1/13	175.86	3/9	177.05	1.19
I-1	2/10	207.15	2/12	207.70	0.55	Z-3	1/13	167.05	3/9	167.30	0.25
J-1	1/14	139.14	3/10	138.70	+0.44	Z-4	1/13	193.62	3/9	194.00	0.38
K-2	2/19	183.70	3/16	184.30	0.60	AB-1	1/13	150.25	3/8	150.55	0.30
K-3	2/19	188.25	3/16	188.70	0.45	AC-1	1/12	221.04	2/12	220.65	+0.39
L-1	2/19	227.20	3/10	227.42	0.22	AD-1	1/12	207.08	2/12	207.30	0.22
L-2	2/19	183.52	3/16	184.60	1.08	AD-2	2/10	193.50	2/12	194.10	0.60
M-2	1/14	157.91	3/11	157.05	+0.86	AE-2	2/10	194.10	2/12	195.70	1.60
M-3	2/19	175.90	3/16	176.30	0.40	AE-3	2/10	197.85	2/12	199.50	1.65
N-1	1/14	166.54	3/11	166.25	+0.29	AF-1	2/18	212.77	3/9	212.98	0.21
O-1	1/14	208.29	3/10	208.45	0.16	AG-1	1/13	197.22	3/9	196.80	+0.42
P-2	2/10	183.24	2/12	184.00	0.76	AG-3	1/13	167.74	3/9	168.58	0.84
P-3	--	--	3/10	203.00	--	AG-5	1/13	192.85	3/9	193.30	0.45
P-4	2/10	187.10	2/12	188.60	1.50	AH-1	1/13	156.66	3/8	157.70	1.04
Q-1	2/18	183.15	3/16	183.60	0.45	AH-3	2/18	151.90	3/8	153.55	1.65
Q-2	2/18	179.70	3/16	180.50	0.80	AH-4	2/18	154.88	3/8	156.30	1.42
Q-4	2/19	182.60	3/16	183.00	0.40	AI-2	1/13	144.47	3/8	144.70	0.23
Q-5	2/18	170.50	3/16	170.65	0.15	AI-6	2/19	149.35	3/8	150.05	0.70
Q-6	2/18	177.95	3/16	178.00	0.05	AK-1	1/12	223.44	2/12	223.90	0.46
Q-7	2/18	167.23	3/16	167.50	0.27	AN-2	1/13	171.96	3/8	172.25	0.29
R-1	1/13	186.09	3/16	186.92	0.83	AP-1	2/19	148.45	3/7	149.95	1.50
S-3	1/13	175.92	3/10	175.75	+0.17						



SHERMAN COUNTY, CHANGE IN WATER LEVELS

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