

TEXAS BOARD OF WATER ENGINEERS

Durwood Manford, Chairman  
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BULLETIN 6101

WATER LEVELS IN OBSERVATION WELLS  
SOUTHERN HIGH PLAINS, TEXAS  
1960 AND 1961

Compiled by  
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Well Observation Program  
and the  
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Ground Water Division  
Texas Board of Water Engineers

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W A T E R   L E V E L S   I N   O B S E R V A T I O N   W E L L S  
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INTRODUCTION

In meeting its responsibilities in the field of water resource study and planning, the Board of Water Engineers has recognized the need for statewide ground-water-level measurements as an index in maintaining a current inventory of available water supplies, and in making quantitative predictions of the future availability of those supplies. To discharge its responsibilities in maintaining a program adequate to meet the State's needs, the Board directed its Chief Engineer in April 1960, to assume the direction and operation of the observation program, and work was begun September 1, 1960, under this order.

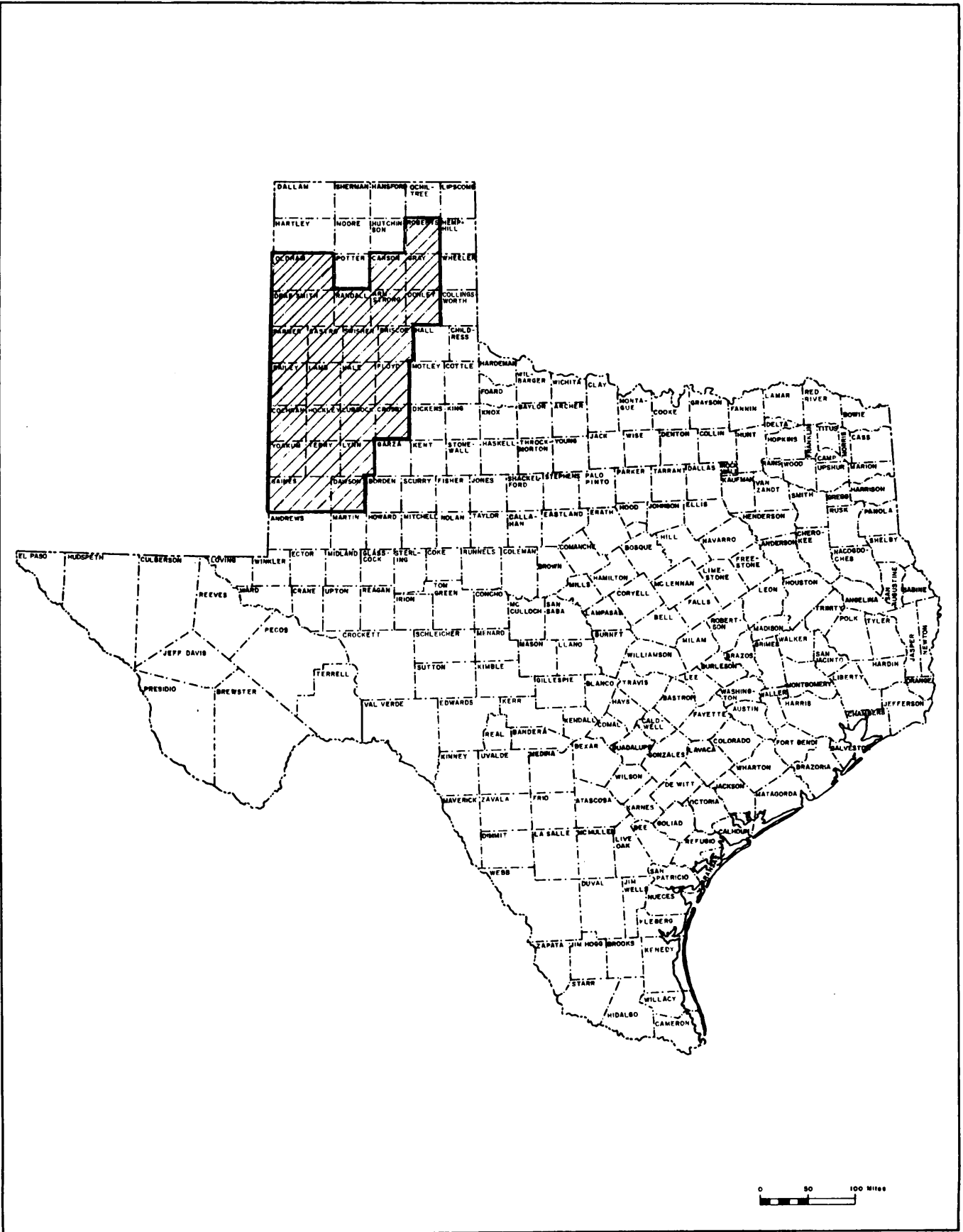
The observation well network included in the measurement program on the Southern High Plains which is reported in this bulletin has been expanded and revised from the measurement program in the area in previous years in Lamb, Bailey, and Cochran Counties. An intensive study throughout the Southern High Plains is needed as the basis for a thorough re-evaluation of the observation well program in the entire area. This bulletin contains water-level measurements made in observation wells and maps showing their locations in 25 counties of the Southern High Plains of Texas during 1960 and 1961. Changes in water levels from 1960 to 1961 are also shown in the tables.

The assistance of the U. S. Geological Survey and the High Plains Underground Water Conservation District No. 1 in making field measurements of water



levels in the Southern High Plains observation well network is gratefully acknowledged. Personnel of the U. S. Geological Survey measured water levels in Bailey, Briscoe, Carson, Donley, Floyd, Gray, Hale, Lamb, Oldham, Parmer, Randall, Roberts, and Swisher Counties. Personnel of the High Plains Underground Water Conservation District No. 1 measured water levels in wells in Castro, Deaf Smith, Lubbock and Lynn Counties and worked with Board of Water Engineers personnel in measuring water levels in Cochran County. Personnel of the Board of Water Engineers measured water levels in wells in Dawson, Gaines, Hockley, Terry, and Yoakum Counties and together with the U. S. Geological Survey measured water levels in wells in Armstrong and Crosby Counties.

Representatives of the Lamb County Electric Cooperative and the Bailey County Electric Cooperative aided in expansion of the program in Lamb, Bailey, and Cochran Counties. Their assistance is also gratefully acknowledged.

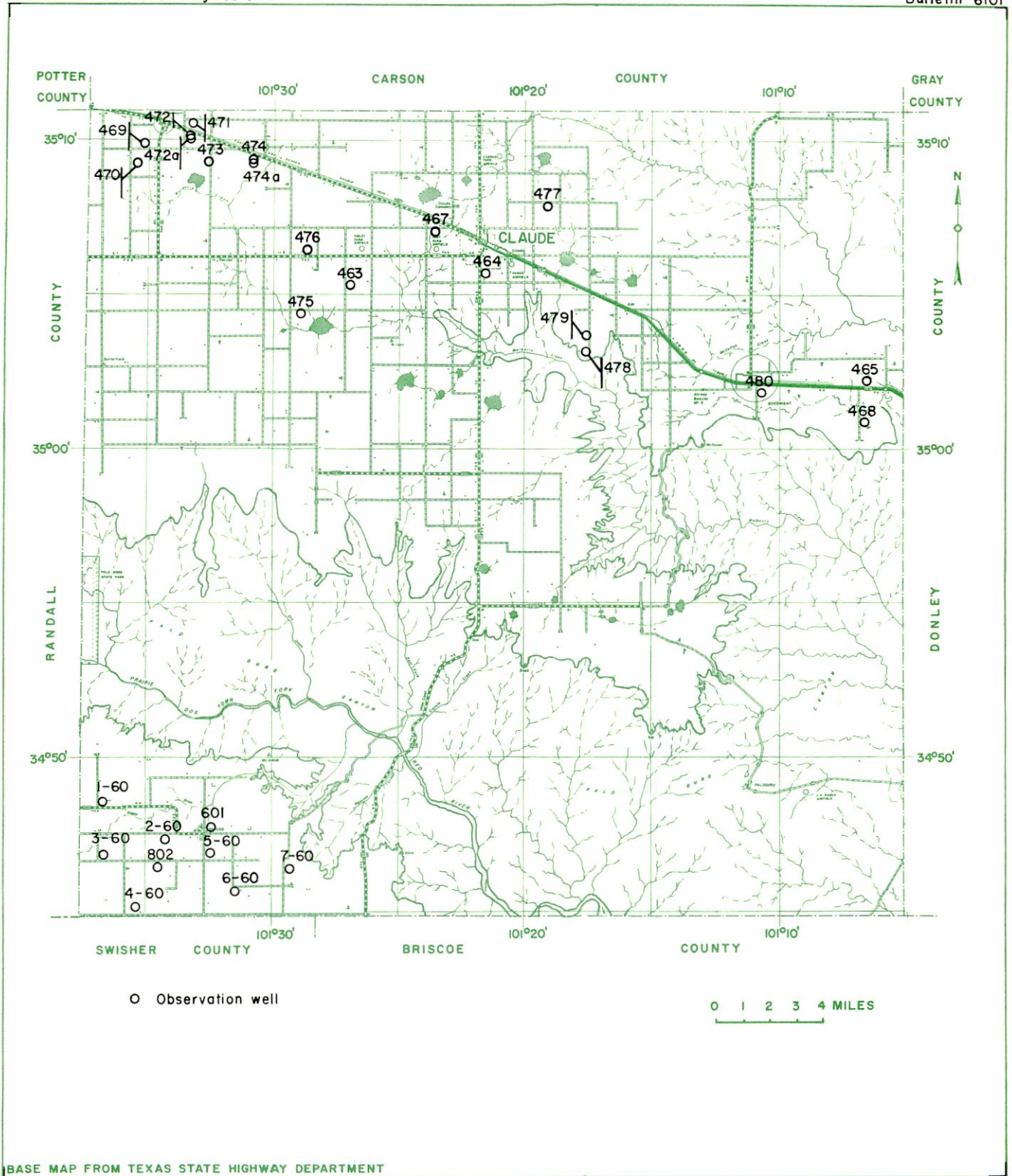


MAP OF TEXAS SHOWING LOCATION OF AREA COVERED BY THIS REPORT

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

Well	1960		1961		Decline or Rise (+), in feet
	Date	Level	Date	Level	
463	1/13	160.05	1/12	159.80	+0.25
464	1/13	174.06	1/12	173.90	+0.16
465	1/12	116.29	1/12	114.66	+1.63
467	1/13	155.42	1/12	155.57	0.15
468	1/12	133.07	1/12	132.28	+0.79
469	1/12	157.86	1/12	158.19	0.33
470	1/12	180.77	1/12	181.24	0.47
471	1/12	192.08	1/12	192.26	0.18
472	1/12	190.16	--	f	--
472a	--	--	1/12	190.29	--
473	1/12	154.89	1/12	155.00	0.11
474	1/12	145.34	--	f	--
474a	--	--	1/12	144.85	--
475	1/13	153.29	1/12	b154.86	1.57
476	1/13	154.98	1/12	153.78	+1.20
477	1/12	297.73	1/12	a	--
478	--	--	1/12	159.99	--
479	1/12	175.51	1/12	175.79	0.28
480	1/12	187.48	1/12	187.31	+0.17
601	--	--	*	100.08	--
802	--	--	*	121.84	--
1-60	3/18	106.40	2/1	106.64	0.24
2-60	3/18	106.71	2/1	105.37	+1.34
3-60	3/18	110.85	2/1	110.56	+0.29
4-60	3/18	116.20	2/1	a	--
5-60	3/18	117.63	2/1	116.87	+0.76
6-60	3/18	108.04	2/1	108.20	0.16
7-60	3/18	95.04	2/1	94.91	+0.13

- a - Pumping.
- b - Pumped recently.
- f - Well destroyed.
- \* - Measured 12/16/60.



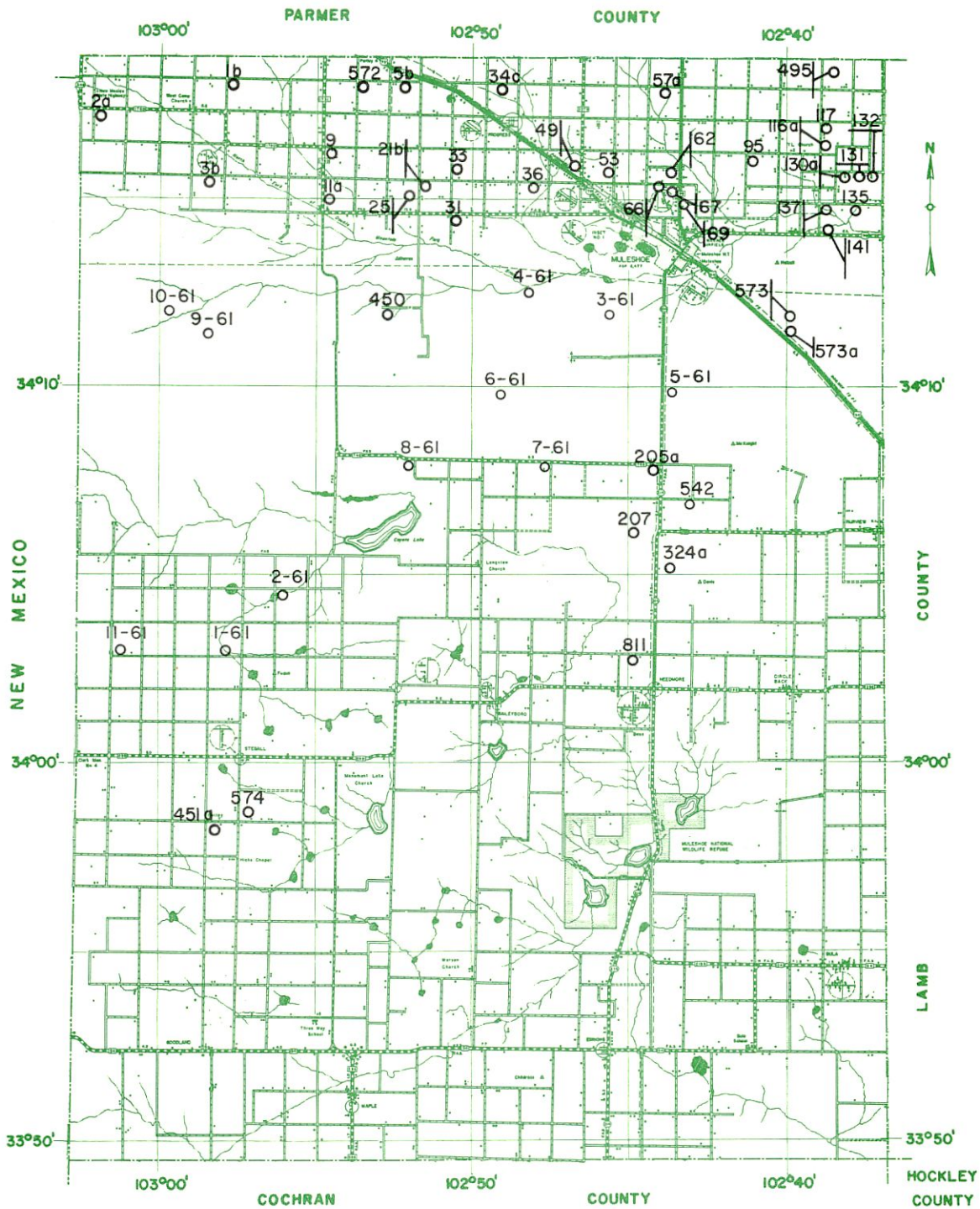
LOCATION OF OBSERVATION WELLS IN ARMSTRONG COUNTY



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

Well	1960		1961		Decline or Rise (+), in feet
	Date	Level	Date	Level	
1b	1/4	116.63	1/5	120.80	4.17
2a	1/4	110.59	1/5	112.60	2.01
3b	1/4	69.14	1/5	76.66	7.52
5b	1/4	98.22	1/6	99.55	1.33
9	1/4	79.02	1/6	80.65	1.63
11a	1/4	59.16	1/5	59.00	+0.16
21b	--	--	1/6	70.40	--
25	1/4	62.29	1/6	63.00	0.71
31	1/4	49.92	--	--	--
33	1/6	76.09	1/6	77.67	1.58
34c	1/4	92.28	1/6	93.11	0.83
36	1/6	56.73	1/6	56.10	+0.63
49	--	--	1/6	56.60	--
53	1/6	62.20	1/6	63.10	0.90
57a	1/4	81.12	--	--	--
62	1/4	71.38	1/6	74.60	3.22
66	1/4	68.65	1/6	71.70	3.05
67	1/6	66.48	1/6	67.86	1.38
69	1/4	62.40	1/6	60.69	+1.71
95	1/6	61.59	1/6	62.92	1.33
116a	1/6	63.89	1/6	65.02	1.33
117	--	--	1/6	74.60	--
130a	1/6	59.48	1/6	60.17	0.69
131	1/6	59.89	--	--	--
132	1/6	61.40	1/6	65.96	4.56
135	1/6	56.37	1/6	55.28	+1.09
137	--	--	1/6	48.67	--
141	1/6	45.67	1/6	45.20	+0.47
205a	1/6	74.05	1/5	74.13	0.08
207	1/21	89.80	1/5	90.21	0.41
324a	--	--	1/5	92.10	--
450	1/4	38.18	1/6	40.90	2.72
451a	1/6	227.45	1/5	225.60	+1.85
495	--	--	1/6	92.13	--
572	1/4	105.03	1/6	108.05	3.02
573	1/6	27.72	1/6	27.80	0.08
573a	1/6	29.21	1/6	25.59	+3.62
574	--	--	1/5	201.06	--
575	1/6	221.21	1/5	220.60	+0.61
542	1/6	87.67	1/5	92.80	5.13
811	1/21	101.56	1/5	102.30	0.74
1-61	--	--	1/12	109.01	--
2-61	--	--	1/12	33.19	--
3-61	--	--	1/12	28.09	--
4-61	--	--	1/12	37.45	--
5-61	--	--	1/12	559.46	--
6-61	--	--	1/12	51.70	--
7-61	--	--	1/12	69.06	--
8-61	--	--	1/12	52.51	--
9-61	--	--	1/12	38.72	--
10-61	--	--	1/12	59.84	--
11-61	--	--	1/12	129.89	--

b - Pumped recently.



○ Observation well

0 1 2 3 4 MILES

BASE MAP FROM TEXAS STATE HIGHWAY DEPARTMENT

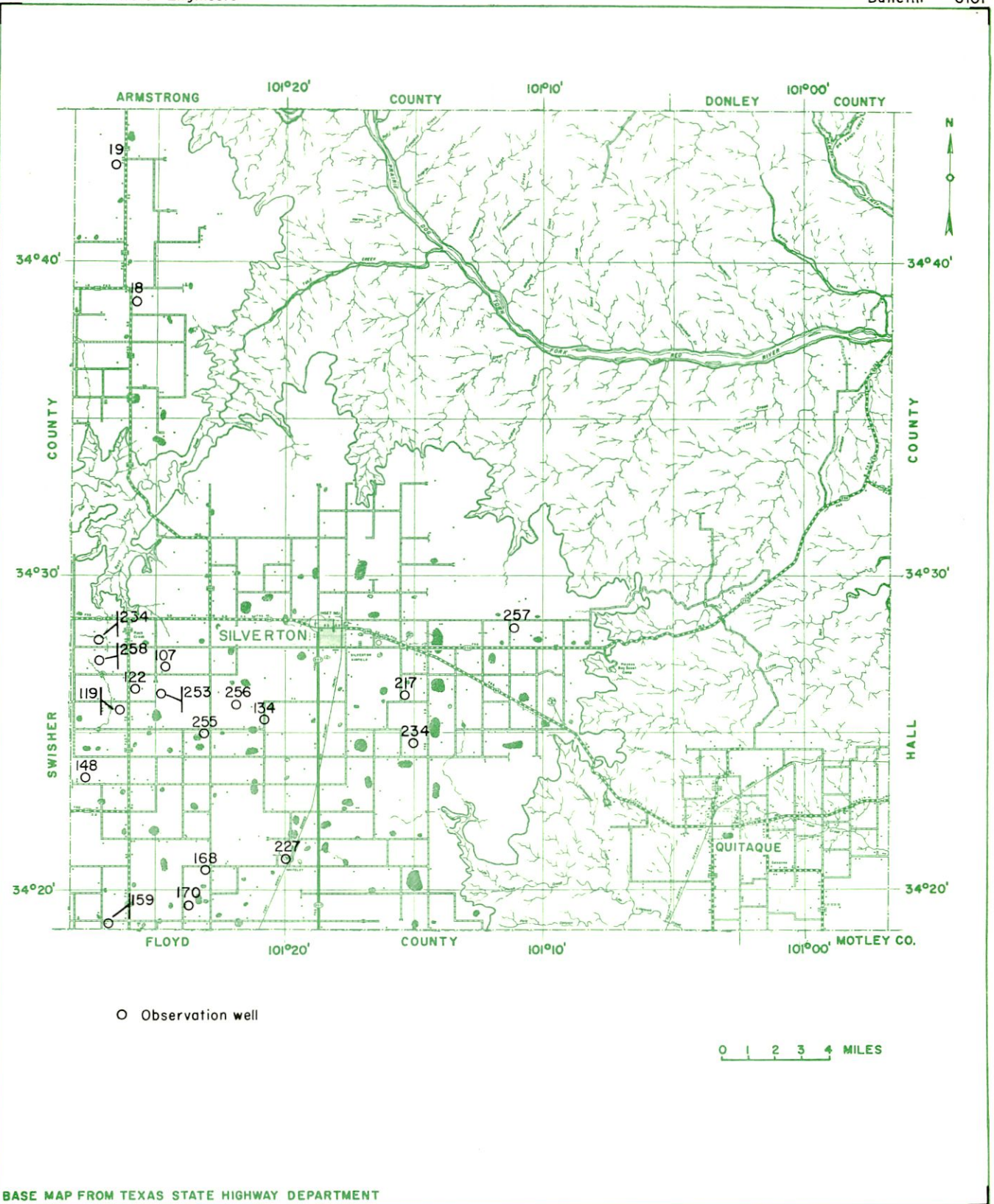
### LOCATION OF OBSERVATION WELLS IN BAILEY COUNTY

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

Well	1960		1961		Decline or Rise (+), in feet
	Date	Level	Date	Level	
18	1/26	104.92	1/9	104.85	+0.07
19	1/26	133.02	1/9	128.20	+4.82
107	--	--	1/9	92.00	--
119	1/26	123.40	1/9	123.36	+0.04
122	1/26	111.88	1/9	b113.83	1.95
134	1/26	110.52	1/9	111.94	1.42
148	1/26	104.09	1/9	106.80	2.71
159	1/26	131.90	1/9	129.55	+2.35
168	1/26	129.86	1/9	128.63	+1.23
170	1/26	126.01	1/9	128.53	2.52
217	1/26	144.52	1/9	146.96	2.44
227	1/26	87.60	1/9	86.18	+1.42
234	1/26	133.72	1/9	136.90	3.18
253	1/26	109.36	1/9	110.56	1.20
254	1/26	88.28	1/9	89.05	0.77
255	1/26	121.00	1/9	121.98	0.98
256	1/26	102.08	1/9	103.58	1.50
257	1/26	186.04	1/9	187.40	1.36
258	1/26	99.55	1/9	100.10	0.55

b - Pumped recently.





BASE MAP FROM TEXAS STATE HIGHWAY DEPARTMENT

### LOCATION OF OBSERVATION WELLS IN BRISCOE COUNTY

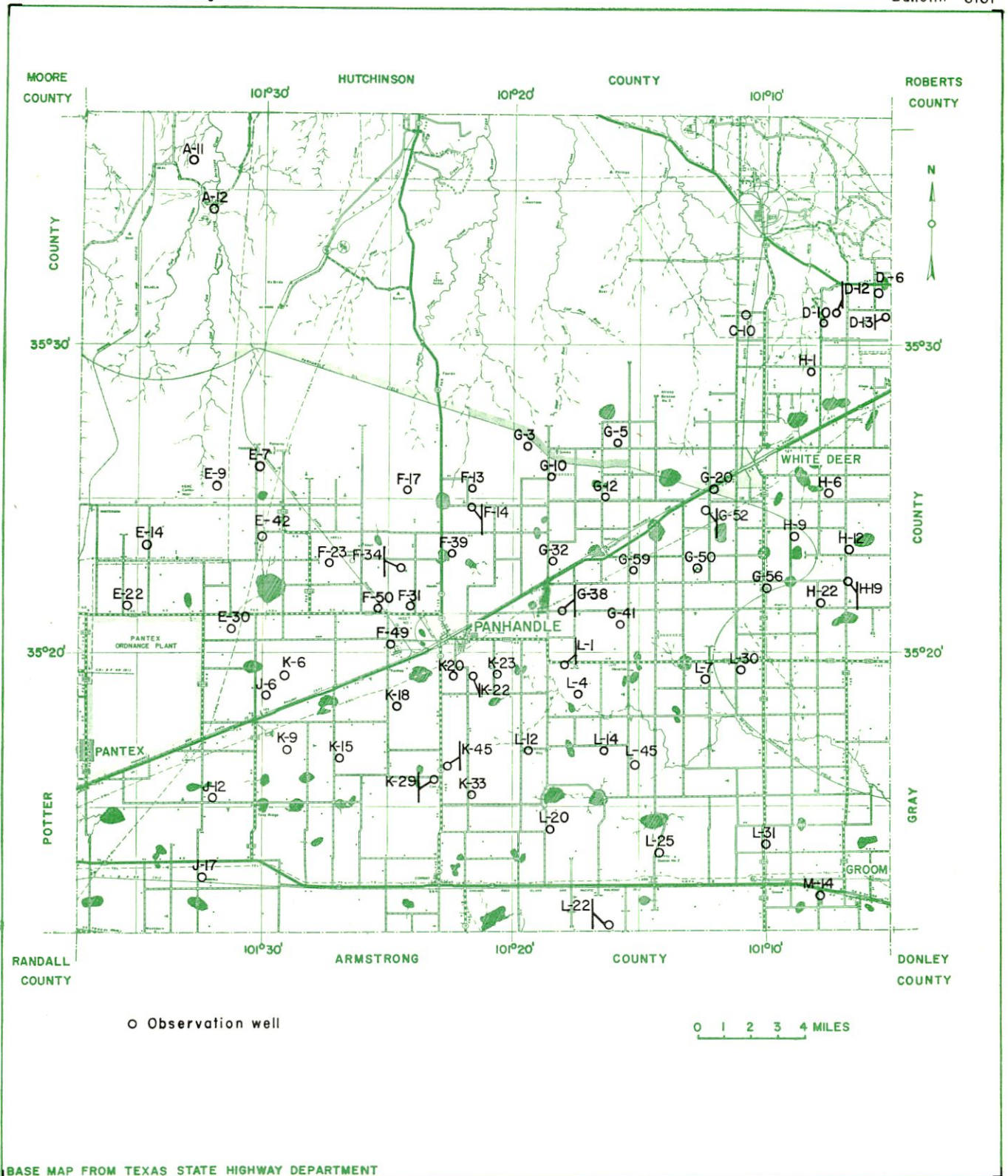


WATER-LEVEL MEASUREMENTS IN CARSON COUNTY  
IN FEET BELOW LAND-SURFACE DATUM

Well	1960		1961		Decline or Rise (+), in feet	Well	1960		1961		Decline or Rise (+), in feet
	Date	Level	Date	Level			Date	Level	Date	Level	
A-11	2/25	79.16	1/19	78.91	+0.25	G-59	2/11	309.81	1/9	310.81	1.00
A-12	2/25	48.97	1/19	49.03	0.06	H-1	2/19	304.11	1/6	304.34	0.23
C-10	2/12	373.04	1/6	372.64	+0.40	H-6	1/25	283.00	1/6	283.08	0.08
D-6	--	--	1/6	378.75	--	H-9	1/25	287.06	1/6	287.84	0.78
D-10	1/7	385.34	1/6	384.75	+0.59	H-12	1/25	289.10	1/6	289.00	+0.10
D-12	1/7	387.77	1/6	387.62	+0.15	H-19	1/25	298.35	1/6	298.34	+0.01
D-13	2/19	368.38	1/6	368.78	0.40	H-22	2/15	295.34	1/6	297.88	2.54
E-7	1/13	382.84	1/10	383.42	0.58	J-6	2/15	366.26	1/10	365.09	+1.17
E-9	2/18	391.66	1/10	393.86	2.20	J-12	1/13	224.78	1/11	224.92	0.14
E-14	2/15	405.95	1/10	408.64	2.69	J-17	1/13	199.88	1/11	199.82	+0.06
E-22	1/11	411.84	1/10	411.76	+0.08	K-6	--	--	1/10	c359.73	--
E-30	2/12	363.67	1/10	364.98	0.91	K-9	2/12	341.55	1/10	341.76	0.21
E-42	--	--	1/10	359.80	--	K-15	1/21	335.95	1/11	335.95	0.00
F-13	1/21	332.17	1/9	333.02	0.85	K-18	2/25	338.77	1/11	339.35	0.58
F-14	1/21	331.62	1/9	332.96	1.34	K-20	2/12	342.27	1/9	341.96	+0.31
F-17	2/12	343.55	1/10	344.37	0.82	K-22	1/21	336.52	1/9	336.35	+0.17
F-23	1/15	349.16	1/10	350.39	1.23	K-23	1/21	322.38	1/9	322.35	+0.03
F-31	2/11	340.70	1/9	341.67	0.97	K-29	1/21	335.78	1/11	336.23	0.45
F-34	2/18	343.78	1/9	344.64	0.86	K-33	1/21	329.74	1/11	329.61	+0.13
F-39	2/12	332.62	1/9	333.53	0.91	K-45	1/21	332.90	1/11	333.36	0.46
F-49	1/21	340.41	1/9	340.84	0.43	L-1	1/21	302.42	1/6	303.03	0.61
F-50	1/15	333.34	1/9	334.98	1.24	L-4	1/20	300.16	1/6	301.36	1.20
G-3	2/12	323.17	1/9	322.61	+0.56	L-7	1/20	283.33	1/6	283.44	0.11
G-5	1/20	309.65	1/9	309.47	+0.18	L-12	1/21	327.18	1/11	327.19	0.01
G-10	1/20	325.10	1/9	325.19	0.09	L-14	2/18	303.52	--	--	--
G-12	1/20	313.39	--	--	--	L-20	2/11	334.30	1/11	334.29	+0.01
G-20	2/11	286.65	1/9	286.76	0.11	L-22	2/11	322.67	1/11	a	--
G-32	1/20	329.68	1/9	332.55	2.87	L-25	2/11	305.05	1/11	306.19	1.14
G-38	1/21	317.32	1/9	318.08	0.76	L-30	1/20	277.24	1/6	277.45	0.21
G-41	2/19	300.29	--	--	--	L-31	1/20	285.47	1/5	285.02	+0.45
G-50	2/11	296.53	1/9	297.22	0.69	L-45	--	--	1/11	301.30	--
G-52	2/11	293.05	1/9	293.68	0.63	M-14	1/20	278.17	1/11	277.84	+0.33
G-56	1/20	301.58	1/6	c305.18	3.60						

a - Pumping.

c - Nearby well pumping.

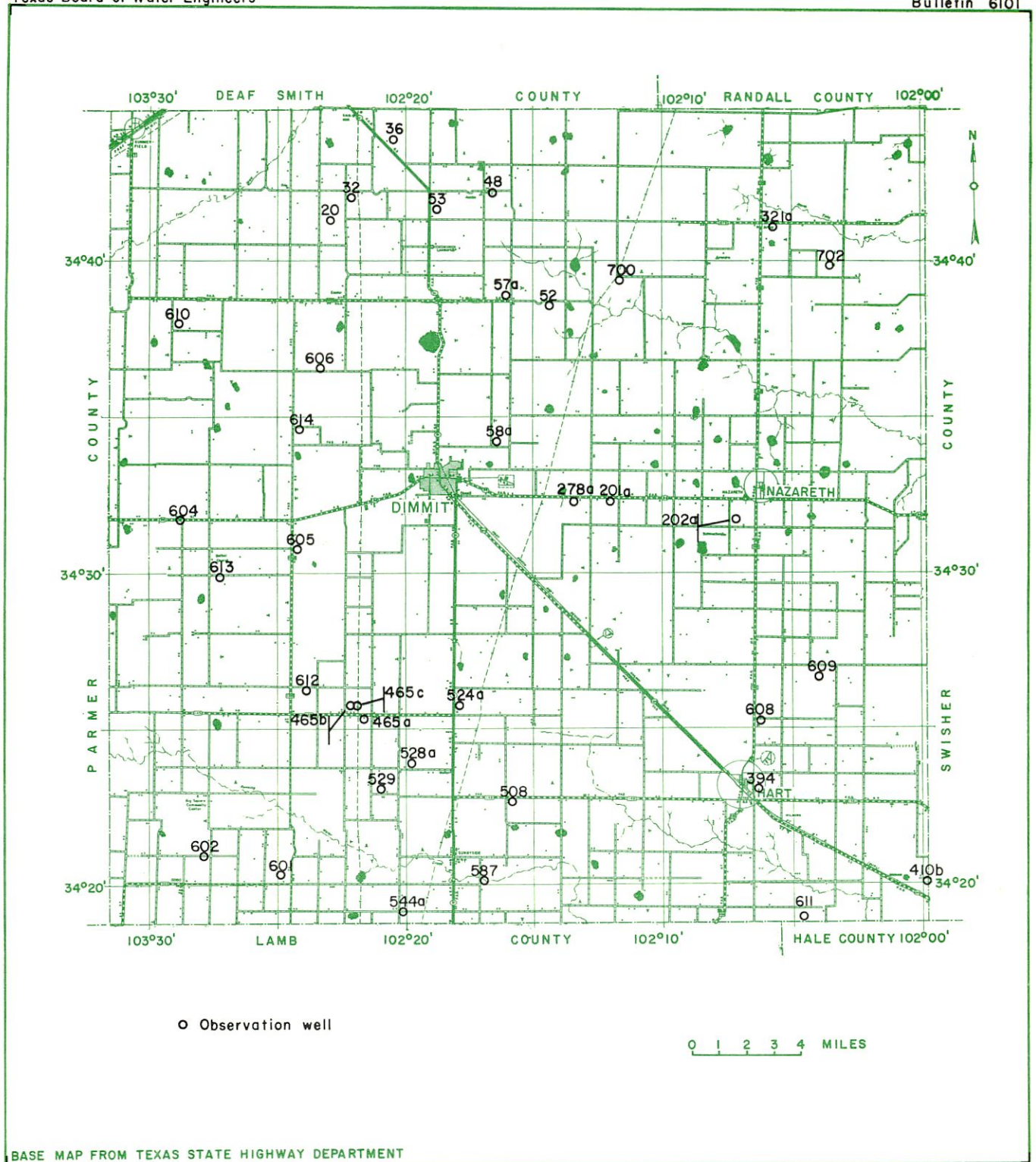


LOCATION OF OBSERVATION WELLS IN CARSON COUNTY

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

Well	1960		1961		Decline or Rise (+), in feet
	Date	Level	Date	Level	
20	2/10	117.28	1/4	122.43	5.15
32	2/10	102.47	1/4	104.10	1.63
36	2/10	--	1/12	134.76	--
48	2/10	93.85	1/10	89.50	+4.35
52	2/10	96.54	1/5	105.15	8.61
53	2/10	106.24	1/4	108.67	2.43
57a	2/10	124.15	1/5	123.97	+0.18
58a	2/10	178.62	1/12	182.00	3.38
201a	1/4	191.96	1/12	193.32	1.36
202a	1/4	175.25	1/12	177.65	2.40
278a	1/4	198.34	1/12	197.63	+0.71
321a	2/11	175.59	1/10	174.96	+0.63
394	1/4	127.82	--	--	--
410b	1/4	106.48	1/11	111.50	5.02
465a	1/4	122.92	1/5	124.80	1.88
465b	1/4	124.58	1/5	123.70	+0.88
465c	1/4	123.08	1/5	122.60	+0.48
508	1/4	114.29	1/11	112.05	+2.24
524a	1/4	109.19	1/5	110.42	1.23
528a	1/4	126.56	1/11	123.15	+3.41
529	1/4	120.20	1/11	120.70	0.50
544a	1/4	133.25	1/11	135.21	1.96
587	1/4	50.22	1/11	47.32	+2.90
601	1/4	138.24	1/11	139.23	0.99
602	1/4	136.97	1/11	133.02	+3.95
604	1/4	198.73	1/5	197.54	+1.19
605	1/4	174.07	1/5	174.92	0.85
606	2/10	188.39	1/5	191.60	3.21
608	1/4	131.60	1/12	134.33	2.73
609	--	--	1/12	167.70	--
610	2/10	159.03	1/4	161.48	2.45
611	1/4	110.97	1/11	110.38	+0.59
612	1/4	113.88	1/5	111.12	+2.76
613	1/4	150.30	1/5	153.25	2.95
614	2/10	191.08	1/5	194.57	3.49
700	2/11	149.92	1/10	148.50	+1.42
702	2/11	160.77	1/10	156.00	+4.77



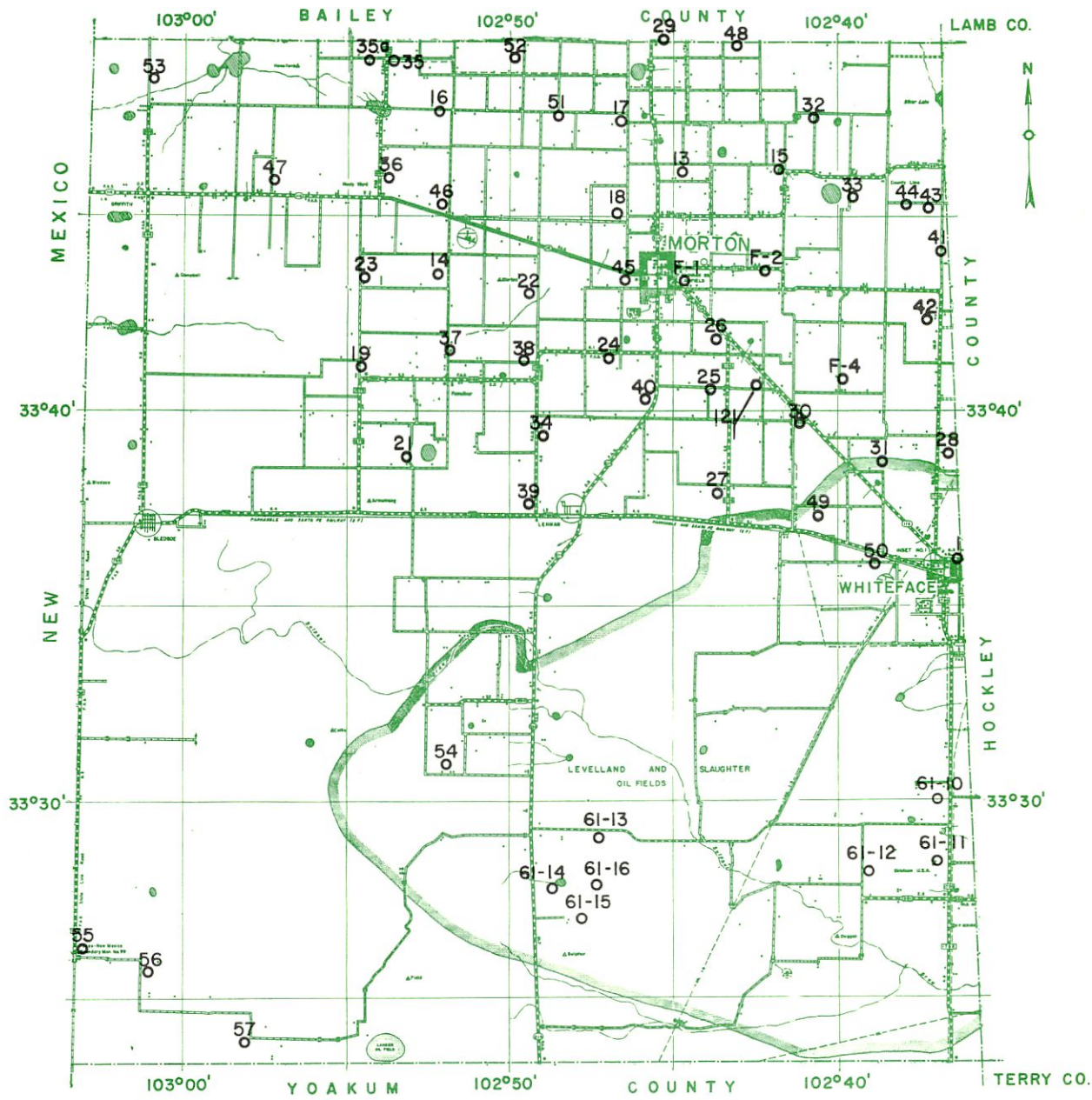


BASE MAP FROM TEXAS STATE HIGHWAY DEPARTMENT

### LOCATION OF OBSERVATION WELLS IN CASTRO COUNTY

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

Well	1960		1961		Decline or Rise (+), in feet
	Date	Level	Date	Level	
1	1/15	149.90	1/4	149.40	+0.50
12	1/19	150.55	1/4	151.78	1.23
13	1/15	121.79	1/3	122.05	0.26
14	1/19	141.98	1/4	142.85	0.87
15	1/15	103.72	1/3	102.40	+1.32
16	1/15	107.17	1/4	107.34	0.17
17	1/15	92.48	1/3	92.60	0.12
18	1/19	131.06	1/3	125.84	+5.22
19	1/19	134.38	1/4	135.16	0.78
21	1/19	162.89	1/4	158.50	+4.39
22	1/19	155.09	1/4	156.21	1.12
23	1/19	130.03	1/4	126.65	+3.38
24	1/19	155.06	1/4	156.38	1.32
25	1/19	138.27	1/4	139.34	1.07
26	1/19	131.65	1/3	131.00	+0.65
27	1/20	144.27	1/4	147.33	3.06
28	1/15	142.60	1/3	143.35	0.75
29	1/15	88.42	1/3	89.00	0.58
30	1/19	144.18	1/3	146.75	2.57
31	1/19	126.05	1/4	125.29	+0.76
32	1/15	97.54	1/3	97.63	0.09
33	1/15	112.93	1/3	114.39	1.46
34	1/19	171.80	1/4	173.55	1.75
35	1/15	101.88	1/4	101.58	+0.30
35a	1/15	105.93	1/4	105.94	0.01
36	1/15	94.18	1/4	95.21	1.03
37	1/19	137.56	1/4	137.34	+0.22
38	1/19	181.70	1/4	182.83	1.13
39	1/19	163.43	1/4	163.10	+0.33
40	1/19	117.45	1/4	115.29	+2.16
41	1/15	117.33	1/3	118.89	1.56
42	1/15	134.48	1/3	135.60	1.12
43	1/15	115.94	1/3	119.40	3.46
44	1/15	114.36	1/3	119.63	5.27
45	1/19	142.90	1/3	143.15	0.25
46	1/19	151.18	1/4	151.17	+0.01
47	1/15	121.76	1/4	121.61	+0.15
48	1/15	127.81	1/3	129.40	1.59
49	1/19	170.48	1/4	169.95	+0.53
50	1/19	176.93	1/4	177.40	0.47
51	1/15	94.37	1/3	93.67	+0.70
52	1/15	87.90	1/3	87.72	+0.18
53	1/15	57.68	1/4	55.97	+1.71
54	1/20	181.33	1/5	181.06	+0.27
55	1/20	136.17	1/5	136.95	0.78
56	1/20	144.00	1/4	144.50	0.50
57	1/20	130.54	1/5	130.79	0.25
F-1	1/19	128.80	1/3	129.75	0.95
F-2	1/15	136.72	1/3	136.55	+0.17
F-4	1/19	143.03	1/4	143.82	0.79
61-10	--	--	1/10	173.18	--
61-11	--	--	1/10	166.98	--
61-12	--	--	1/10	169.64	--
61-13	--	--	1/10	179.90	--
61-14	--	--	1/10	159.57	--
61-15	--	--	1/10	164.10	--
61-16	--	--	1/10	158.37	--



○ Observation well

0 1 2 3 4 MILES

BASE MAP FROM TEXAS STATE HIGHWAY DEPARTMENT

### LOCATION OF OBSERVATION WELLS IN COCHRAN COUNTY



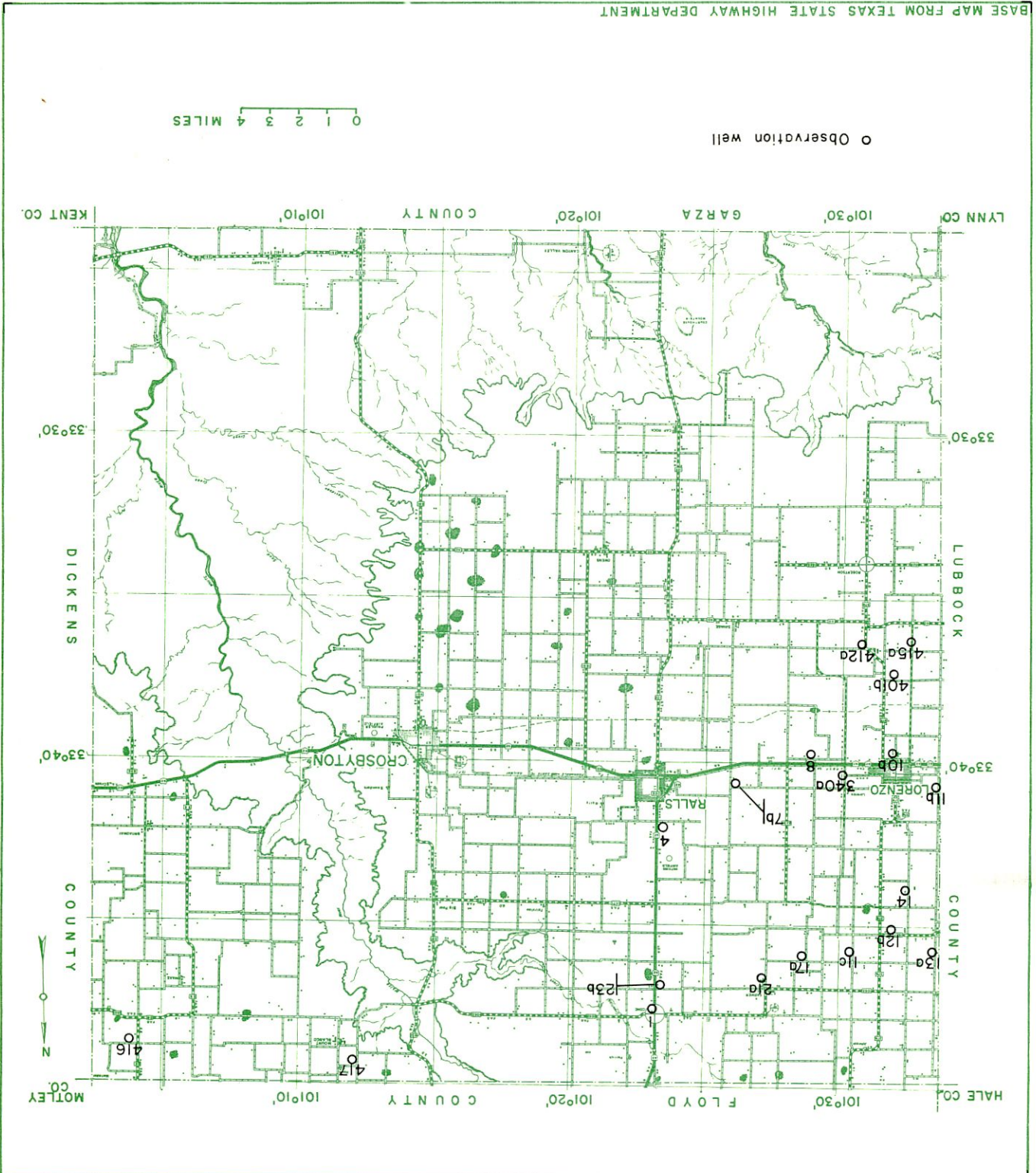
WATER-LEVEL MEASUREMENTS IN CROSBY COUNTY  
IN FEET BELOW LAND-SURFACE DATUM

Well	1960		1961		Decline or Rise (+), in feet
	Date	Level	Date	Level	
1	1/25	161.07	1/31	158.65	+2.42
4	--	--	1/31	210.95	--
7b	1/25	e205.90	1/31	191.36	--
8	1/25	147.56	1/31	152.05	4.49
10b	1/25	161.46	1/31	159.53	+1.93
11b	1/25	144.67	1/31	152.55	7.88
11c	1/25	161.80	1/31	163.70	1.90
12b	1/25	174.27	1/31	177.47	3.20
13a	1/25	153.20	1/31	146.88	+6.32
14	1/25	147.87	1/31	150.10	2.23
17a	1/25	153.18	1/31	155.57	2.39
21a	1/25	153.10	1/31	156.00	2.90
23b	1/25	161.95	1/31	164.74	2.79
340a	1/25	165.93	1/31	169.42	3.49
401b	1/25	131.87	1/31	132.55	0.68
412a	1/25	145.45	1/31	146.71	1.26
415a	1/25	102.48	1/31	102.76	0.28
416	1/25	251.50	1/31	252.17	0.67
417	1/25	247.03	1/31	254.60	7.57

e - Questionable measurement.

# LOCATION OF OBSERVATION WELLS IN CROSBY COUNTY

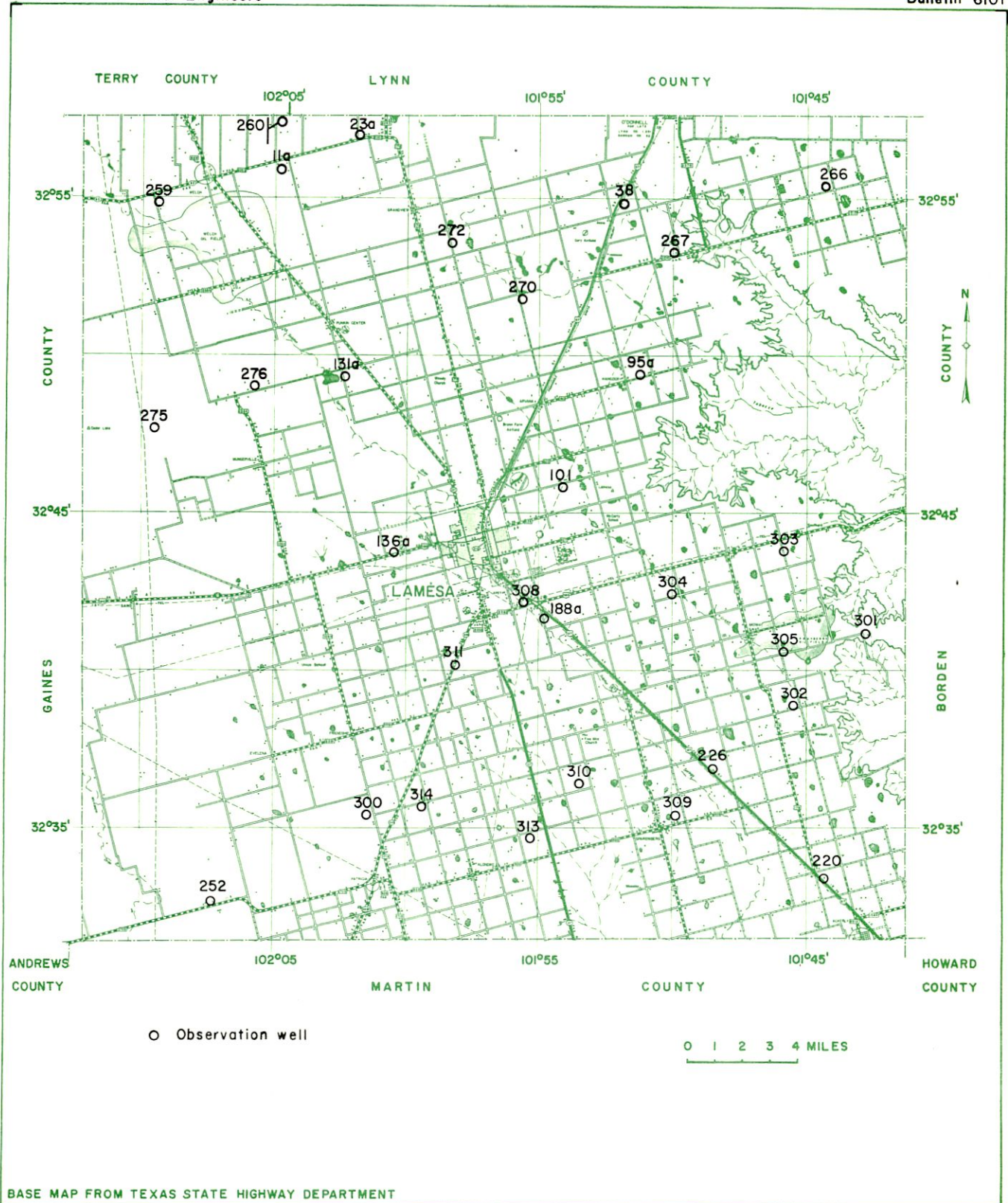
BASE MAP FROM TEXAS STATE HIGHWAY DEPARTMENT





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

Well	1960		1961		Decline or Rise (+), in feet
	Date	Level	Date	Level	
11a	1/12	70.29	1/13	70.85	0.56
23a	1/12	50.37	1/13	48.37	+2.00
38	1/12	49.41	1/13	48.42	+0.99
95a	1/12	107.53	1/14	110.60	3.07
101	1/12	130.97	1/14	130.38	+0.59
131a	1/13	98.84	1/14	100.05	1.21
136a	1/12	99.30	1/14	100.47	1.17
188a	1/13	67.76	1/14	67.91	0.15
220	1/13	99.34	1/14	101.33	1.99
226	1/13	90.85	1/14	90.98	0.13
252	1/13	28.50	1/14	27.92	+0.58
259	--	--	1/13	70.73	--
260	1/12	73.98	1/13	74.48	0.50
266	1/12	28.08	--	--	--
267	1/12	36.76	1/13	33.40	+3.36
270	1/12	24.28	1/13	20.26	+4.02
272	1/12	43.69	1/13	41.03	+2.66
275	1/13	86.84	--	--	--
276	1/13	99.75	1/14	99.98	0.23
300	1/13	93.55	1/14	93.61	0.06
301	1/13	146.54	1/14	148.85	2.31
302	--	--	1/14	109.76	--
303	1/13	152.28	1/14	156.81	4.53
304	1/13	99.49	1/14	101.82	2.33
305	1/13	116.99	1/14	118.72	1.73
308	1/12	73.17	1/14	73.49	0.32
309	1/13	100.40	1/14	103.42	3.02
310	1/13	89.63	1/14	90.40	0.77
311	--	--	1/14	60.42	--
313	1/13	136.21	1/14	137.90	1.69
314	--	--	1/14	56.18	--



LOCATION OF OBSERVATION WELLS IN DAWSON COUNTY



WATER-LEVEL MEASUREMENTS IN DEAF SMITH COUNTY  
IN FEET BELOW LAND-SURFACE DATUM

Well	1960		1961		Decline or Rise (+), in feet
	Date	Level	Date	Level	
59	3/9	222.50	--	--	--
72a	3/10	247.24	1/26	247.58	0.34
121a	2/12	134.59	--	--	--
130a	3/9	159.93	1/31	158.23	+1.70
140a	3/9	182.10	1/30	184.54	2.44
161	3/9	123.38	--	--	--
168	2/11	125.55	1/31	125.30	+0.25
193	2/12	137.57	1/30	135.53	+2.04
201	2/12	133.08	1/23	132.27	+0.81
212	2/11	113.34	--	--	--
216	3/9	92.78	1/31	94.09	1.31
217	2/11	123.70	1/31	115.92	+7.78
219	2/11	108.16	1/31	108.43	0.27
224	2/11	93.04	1/31	90.18	+2.86
226	2/11	98.83	--	--	--
235	2/11	70.86	1/31	67.62	+3.24
241	2/11	69.42	1/31	69.59	0.17
247	2/11	50.58	1/20	d45.89	+4.69
261	2/12	97.08	1/30	94.99	+2.09
272	2/12	116.82	--	--	--
272a	--	--	1/18	114.29	--
283	3/8	91.29	1/23	92.62	1.33
288	2/12	111.26	1/20	113.38	2.12
302	2/11	68.72	1/20	67.84	+0.88
305	3/8	130.34	1/23	133.02	2.68
311	2/11	87.24	--	--	--
315	2/11	97.30	1/13	91.30	+6.00
322	2/11	104.18	--	--	--
326	2/11	143.29	1/13	145.67	2.38
331	2/11	119.95	1/13	123.28	3.33
336	2/11	133.78	1/13	134.82	1.04
342	2/11	119.69	1/13	123.43	3.74
394	2/11	100.33	1/13	101.52	1.19
431b	3/8	101.80	1/23	103.35	1.55
486	3/8	122.85	1/26	125.75	2.90
502	3/8	148.40	1/23	148.82	0.42
506a	3/8	107.16	1/23	c109.25	2.09
513a	3/8	109.00	1/23	110.07	1.07
514	3/8	143.83	1/23	146.20	2.37
546	--	--	1/23	148.03	--
558	2/12	80.98	--	--	--
566	2/12	211.22	1/23	213.60	2.38
919	2/11	118.07	1/13	120.34	2.27
934	2/11	135.60	1/3	136.80	1.20
D-30	3/8	184.14	1/26	185.08	0.94
D-111	3/8	60.00	1/26	60.90	0.90
D-203	3/8	168.28	1/26	170.21	1.93
D-303	3/10	295.72	1/26	295.52	+0.20
D-306	3/10	246.77	1/26	246.81	0.04

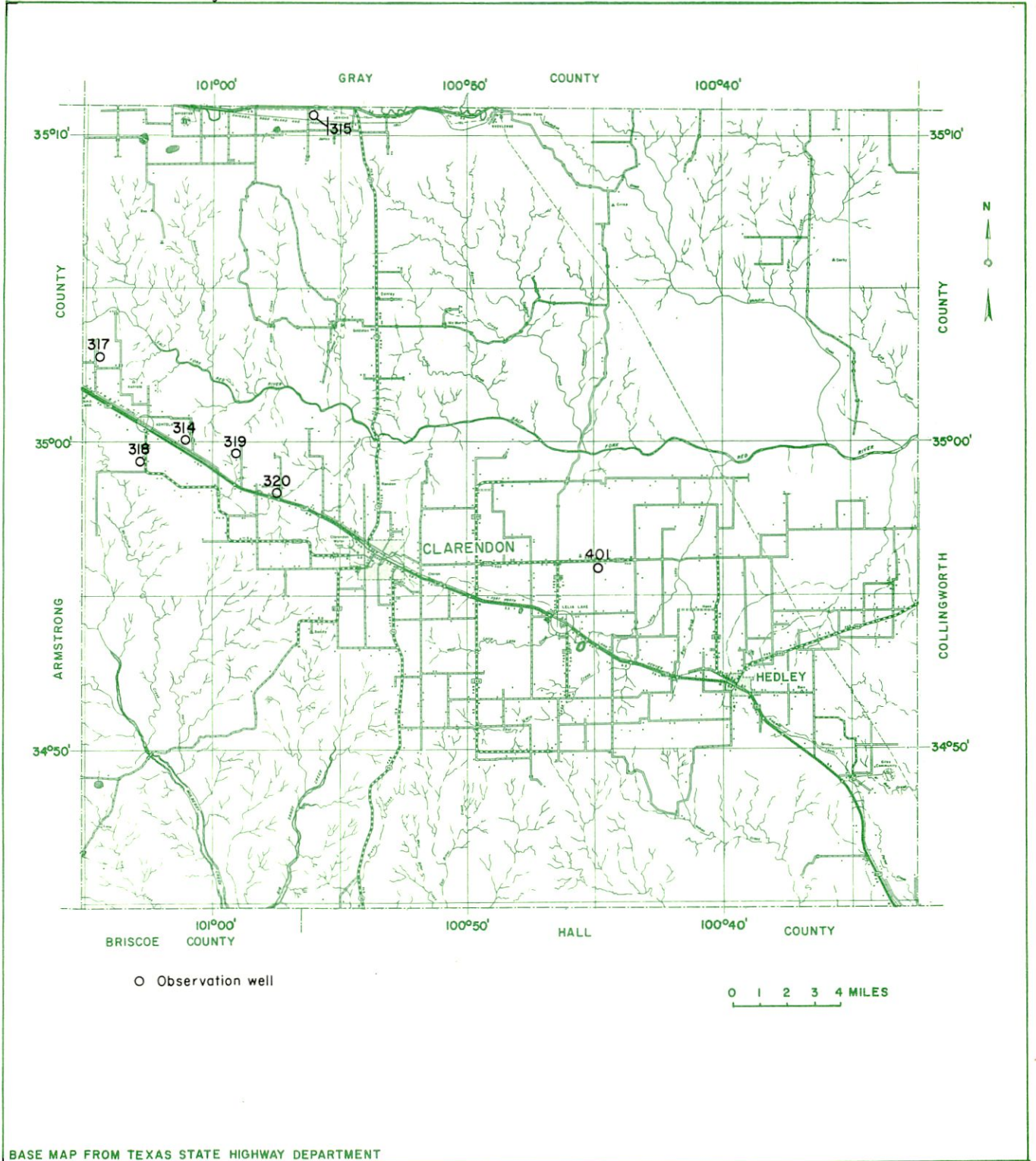
c - Nearby well pumping.  
d - Near "Wet Weather" Lake.



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

Well	1960		1961		Decline or Rise (+), in feet
	Date	Level	Date	Level	
314	1/12	51.01	1/18	44.60	+6.41
315	1/29	311.70	1/15	310.95	+0.75
317	1/12	108.29	1/18	106.92	+1.37
318	1/12	103.30	1/18	99.36	+3.94
319	1/12	91.93	1/18	89.92	+2.01
320	1/12	31.18	1/18	28.12	+3.06
401	--	--	1/18	57.31	--





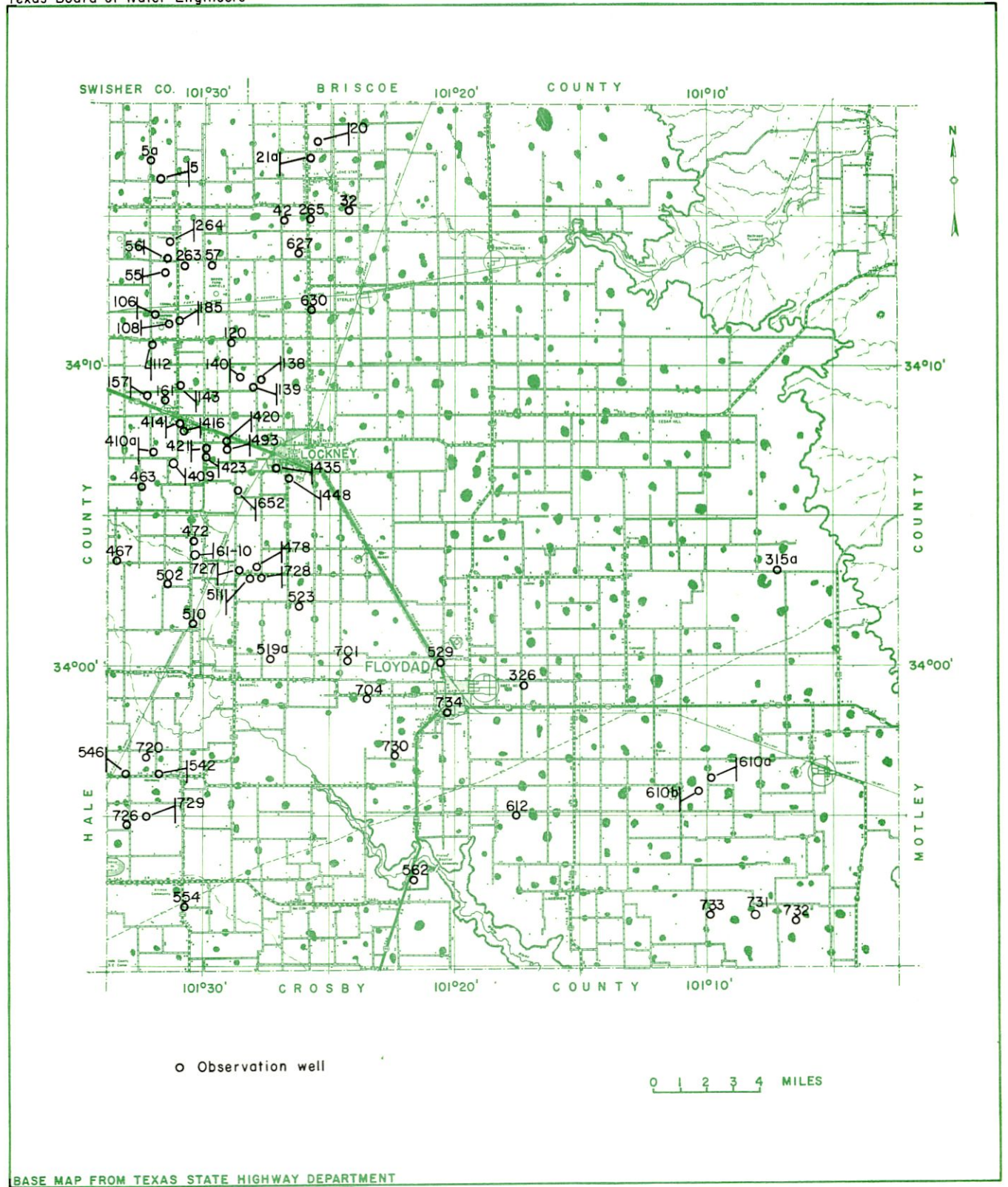
**LOCATION OF OBSERVATION WELLS IN DONLEY COUNTY**

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

Well	1960		1961 Date	Level	Decline or Rise (+), in feet	Well	1960		1961 Date	Level	Decline or Rise (+), in feet
	Date	Level					Date	Level			
5	1/26	98.30	1/26	100.04	1.74	463	1/28	133.55	1/26	138.30	4.75
5a	1/26	91.80	1/21	95.90	4.10	467	1/27	117.80	1/26	120.70	2.90
20	1/26	128.60	1/26	135.74	4.14	472	1/27	132.52	1/26	134.64	2.12
21a	1/26	124.15	1/26	123.60	+0.55	478	1/27	140.95	1/26	144.00	3.05
32	1/26	139.90	1/26	143.51	3.61	493	1/27	148.99	1/26	150.43	1.44
42	1/26	120.28	1/26	119.10	+1.18	502	1/27	133.65	1/26	133.78	0.13
55	--	--	1/30	123.28	--	510	1/27	116.25	1/26	119.31	3.06
56	1/26	110.56	--	--	--	511	1/27	133.19	1/26	135.48	2.29
57	1/26	125.90	1/30	130.30	4.40	519a	1/28	137.12	1/26	139.00	1.88
106	1/27	132.73	--	--	--	523	1/27	148.49	1/26	151.08	2.59
108	1/27	131.50	1/30	135.80	4.30	529	1/28	115.00	1/26	116.58	1.58
112	1/27	115.10	1/30	e128.70	--	542	1/28	145.66	1/20	148.94	3.28
120	--	--	1/30	141.80	--	546	1/28	138.93	1/20	141.90	2.97
138	1/27	142.38	1/30	144.45	2.07	554	1/1	135.72	--	--	--
139	1/27	140.65	1/30	142.74	2.09	562	1/28	178.70	1/20	181.74	3.04
140	1/27	131.49	--	--	--	610a	1/28	237.22	1/20	234.55	+2.67
143	1/27	144.23	1/30	144.80	0.57	610b	1/28	239.36	1/20	238.50	+0.86
157	--	--	1/30	143.60	--	612	1/28	180.15	1/20	181.80	1.65
161	1/27	140.75	1/30	144.15	3.40	627	1/26	129.65	1/26	127.08	+2.57
185	1/27	136.43	--	--	--	630	1/27	154.46	1/26	156.42	1.96
263	1/26	135.29	1/30	136.70	1.41	652	1/27	139.03	1/26	144.66	5.63
264	1/26	105.88	1/30	105.36	+0.52	701	1/28	139.58	1/26	142.44	2.86
265	1/26	126.65	1/26	127.40	0.75	704	1/28	150.79	1/26	149.65	+1.14
315a	--	--	1/20	236.31	--	720	1/28	134.17	1/20	137.27	3.10
326	1/28	132.58	1/20	154.00	1.42	726	1/28	111.08	--	--	--
409	1/28	135.65	1/20	137.80	2.15	727	1/27	132.58	1/26	135.86	3.28
410a	1/28	129.98	1/20	133.00	3.02	728	1/27	140.24	1/26	142.16	1.92
414	1/27	143.48	1/26	144.69	1.21	729	1/28	138.98	1/20	141.60	2.62
416	1/27	143.63	1/26	145.10	1.47	730	1/28	168.93	1/26	173.00	4.07
420	1/27	132.60	--	--	--	731	1/28	270.85	1/20	256.67	+14.18
421	1/27	144.29	1/26	147.14	2.85	732	1/28	259.10	1/20	259.43	0.33
423	1/27	143.89	1/26	142.00	+1.89	733	1/28	252.25	1/20	252.07	+0.18
435	1/27	153.45	1/26	156.80	3.35	734	1/28	146.14	1/26	148.00	1.86
448	1/27	146.20	1/26	148.70	2.50	61-10	--	--	1/23	122.90	--

e - Questionable measurement.



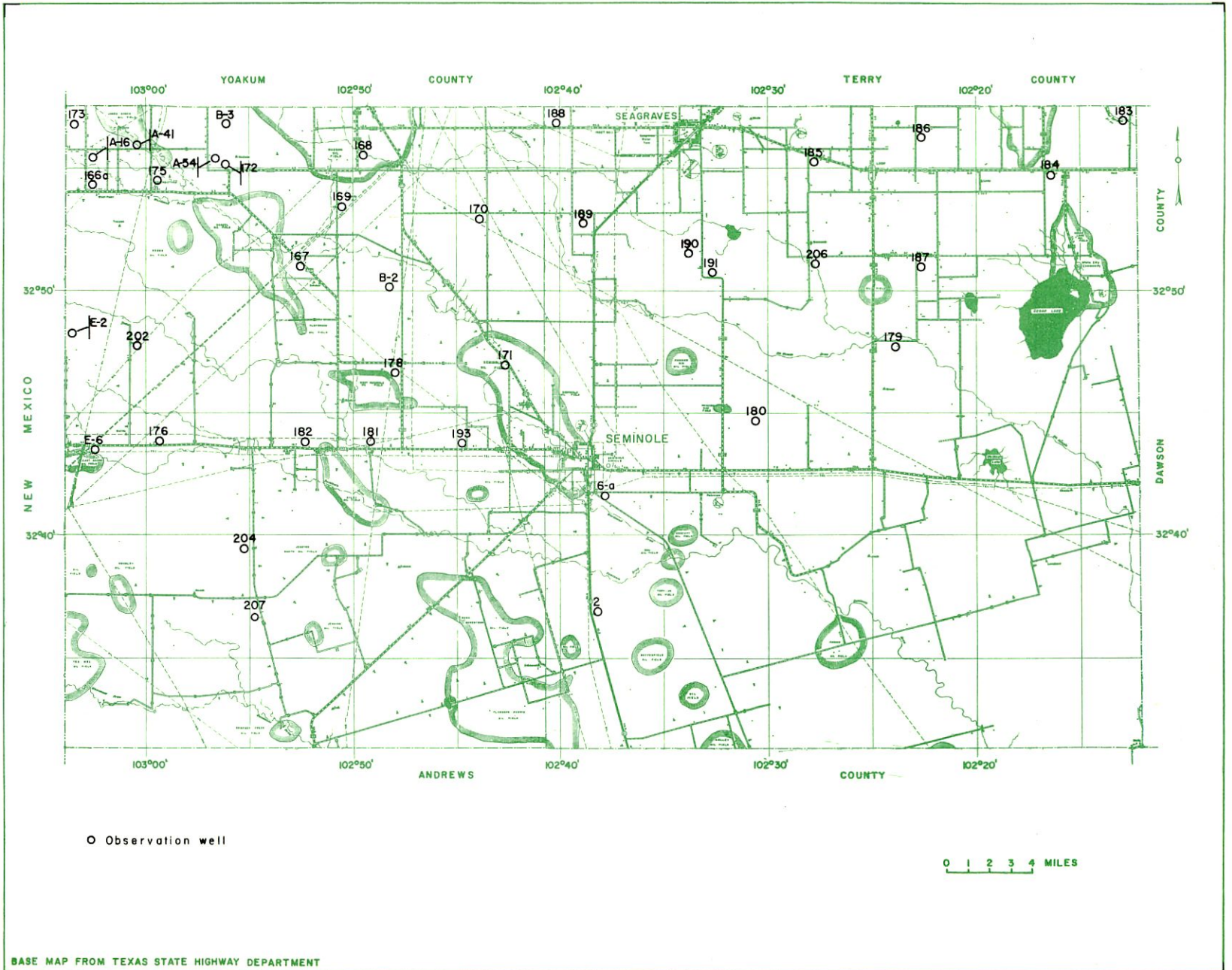


LOCATION OF OBSERVATION WELLS IN FLOYD COUNTY



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

Well	1960		1961		Decline or Rise (+), in feet
	Date	Level	Date	Level	
2	1/14	54.50	1/13	54.55	0.05
6a	1/14	43.50	--	--	--
166a	1/13	63.87	1/12	63.32	+0.55
167	1/13	61.94	1/12	62.82	0.88
168	1/13	75.63	1/12	74.42	+1.21
169	1/13	65.63	1/12	65.50	+0.13
170	1/14	83.93	1/12	83.00	+0.93
171	--	--	1/13	86.09	--
172	1/13	79.68	1/12	80.98	1.30
173	1/13	69.42	1/12	67.30	+2.12
175	1/13	46.10	1/12	45.60	+0.50
176	1/13	53.48	1/12	55.61	2.13
178	1/13	69.85	1/12	71.78	1.93
179	1/14	45.00	--	--	--
180	1/14	59.50	1/13	61.31	1.81
181	1/13	71.50	1/13	73.63	2.13
182	1/13	77.77	1/13	79.66	1.89
183	1/14	53.25	1/13	54.13	0.88
184	1/14	97.90	1/13	98.70	0.80
185	1/14	63.50	1/13	65.69	2.19
186	--	--	1/13	82.98	--
187	1/14	29.43	1/13	29.65	0.22
188	1/14	98.40	1/13	98.28	+0.12
189	1/14	122.60	1/13	124.67	2.07
190	--	--	1/13	71.91	--
191	1/14	81.67	1/13	82.53	0.86
193	1/14	75.93	1/12	76.35	0.42
202	1/13	46.44	1/12	45.42	+1.02
204	1/13	64.90	1/12	67.89	2.99
206	1/14	73.85	1/13	74.65	0.80
207	1/13	78.85	1/12	79.21	0.36
A-16	1/13	63.20	--	--	--
A-41	1/13	61.95	1/12	58.54	+3.41
A-54	1/13	74.55	1/12	75.91	1.36
B-2	1/14	84.28	1/12	83.51	+0.77
B-3	1/1	76.60	--	--	--
E-2	1/13	83.98	1/12	83.63	+0.35
E-6	1/13	74.26	1/12	73.13	+1.13

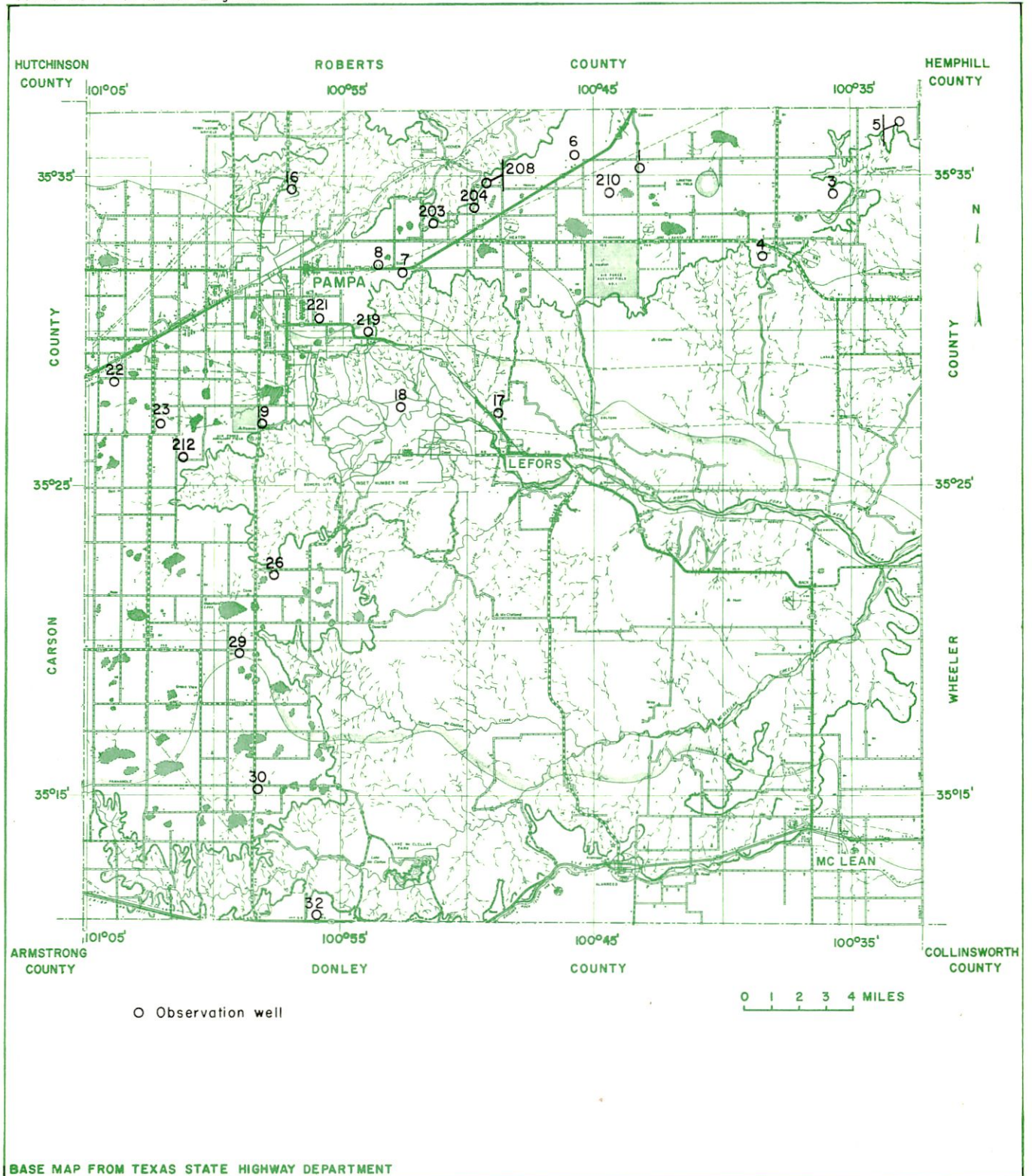


LOCATION OF OBSERVATION WELLS IN GAINES COUNTY

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

Well	1960		1961		Decline or Rise (+), in feet
	Date	Level	Date	Level	
1	2/1	343.63	1/3	342.25	+1.38
3	2/22	319.61	1/4	320.11	0.50
4	2/22	329.96	2/1	329.85	+0.11
5	2/22	339.47	1/3	339.55	0.08
6	--	--	1/3	341.57	--
7	1/1	347.84	1/3	348.21	0.37
8	1/1	348.77	1/3	348.89	0.12
16	1/29	342.32	1/4	342.00	+0.32
17	2/19	69.22	1/4	68.80	+0.42
18	2/19	64.03	1/4	63.56	+0.47
19	1/29	325.75	1/5	325.28	+0.47
22	1/29	376.02	1/5	375.85	+0.17
23	--	--	1/5	356.69	--
26	1/29	339.72	1/5	338.83	+0.89
29	1/29	309.39	1/5	308.78	+0.61
30	1/29	261.28	1/5	260.40	+0.88
32	1/29	310.19	1/5	308.83	+1.36
203	--	--	1/3	353.14	--
204	1/1	345.15	1/3	345.14	+0.01
208	1/1	341.35	1/3	341.26	+0.09
210	2/22	339.82	1/3	340.39	0.57
212	1/29	325.41	1/5	325.19	+0.22
219	--	--	1/4	340.79	--
221	--	--	1/4	356.60	--





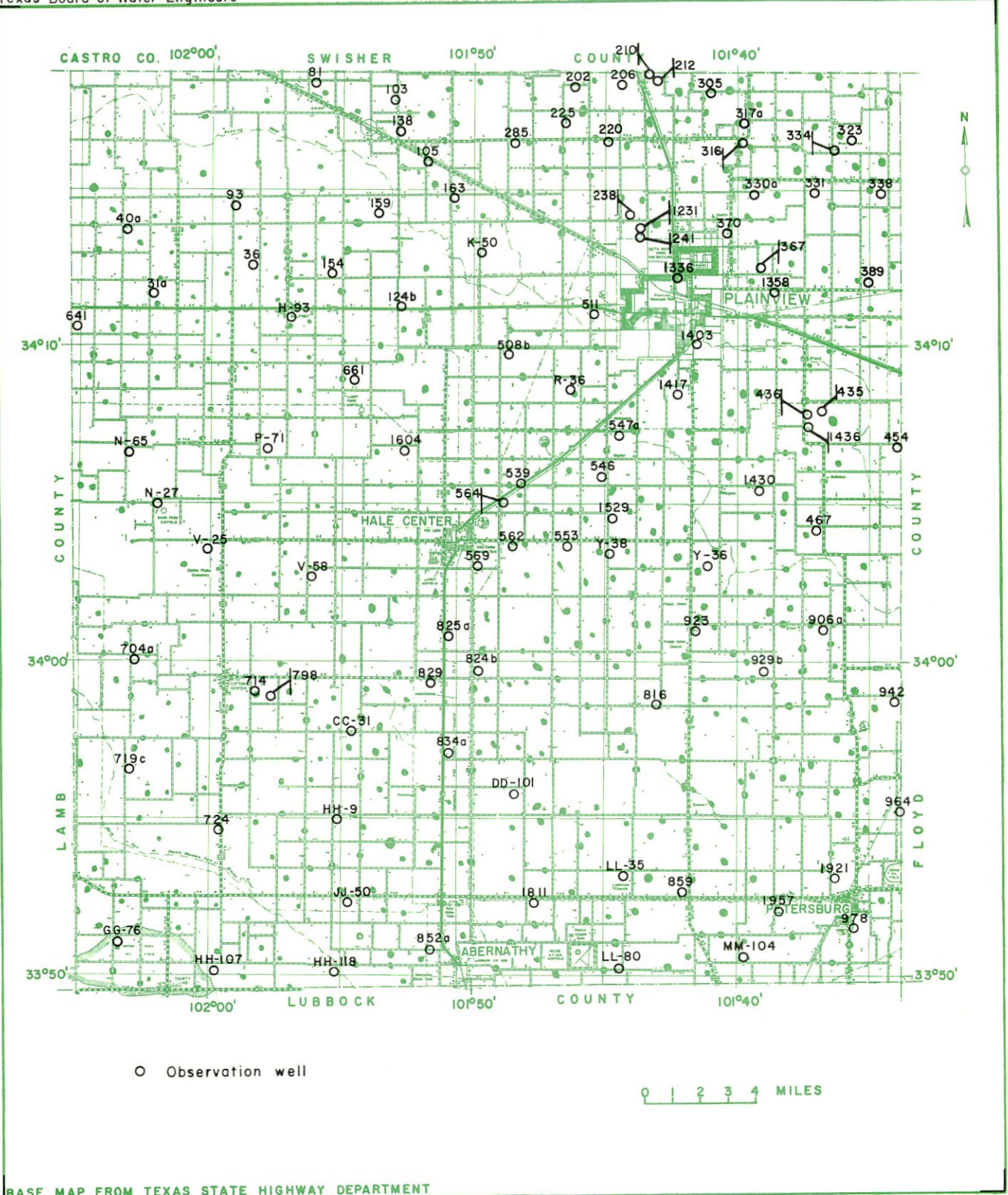
LOCATION OF OBSERVATION WELLS IN GRAY COUNTY

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

Well	1960		1961		Decline or Rise (+), in feet	Well	1960		1961		Decline or Rise (+), in feet
	Date	Level	Date	Level			Date	Level	Date	Level	
31a	1/18	112.13	--	--	--	719c	1/18	116.65	1/12	116.67	0.02
36	1/19	133.79	1/11	139.09	5.30	724	1/18	138.90	1/13	140.19	1.29
40a	1/18	128.70	--	--	--	798	1/18	131.05	1/13	133.24	2.19
81	1/19	105.65	1/11	109.68	4.03	816	--	--	1/10	97.65	--
93	1/19	139.13	1/11	145.35	6.22	824b	--	--	1/10	105.50	--
103	1/19	86.52	1/11	88.29	1.77	825a	1/20	110.40	1/10	112.35	1.95
105	1/19	102.00	1/11	104.00	2.00	829	1/20	114.62	1/10	118.00	3.38
124b	--	--	1/11	132.40	--	834a	1/20	146.70	1/9	150.85	4.15
138	1/19	86.84	1/11	87.90	1.06	852a	1/18	160.47	1/10	163.31	2.84
154	1/19	115.45	1/11	119.20	3.75	859	1/20	129.45	1/10	135.58	6.13
159	1/19	115.00	1/11	117.70	2.70	906a	1/20	75.47	1/12	76.64	1.17
163	1/19	106.90	1/11	111.80	4.90	923	1/20	96.45	1/12	98.92	2.47
202	1/8	126.60	1/11	129.90	3.30	929b	1/20	83.95	1/12	86.43	2.48
206	1/8	124.00	1/11	126.50	2.50	942	1/20	98.90	1/12	99.20	0.30
210	1/8	118.97	1/11	122.17	3.20	964	1/20	126.15	1/10	128.04	1.89
212	1/8	106.06	1/11	109.83	3.77	978	1/20	140.50	1/10	142.50	2.00
220	1/19	112.94	--	--	--	1231	1/19	109.20	1/11	113.20	4.00
225	1/19	115.10	1/11	116.00	0.90	1336	1/8	105.36	1/11	105.95	0.59
238	1/19	116.00	1/11	122.00	6.00	1358	1/20	114.80	1/12	116.70	1.90
241	1/19	110.15	1/11	113.70	3.55	1403	1/19	100.00	1/11	102.10	2.10
285	1/19	116.90	--	--	--	1417	1/19	115.20	1/12	118.00	2.80
305	1/8	117.93	1/11	122.45	4.52	1430	1/20	103.65	1/12	107.40	3.75
316	1/8	99.56	--	--	--	1436	1/20	120.25	1/12	122.90	2.65
317a	1/8	98.28	1/11	98.61	0.33	1529	1/19	127.18	1/10	131.10	3.92
323	1/8	114.40	1/11	116.12	1.72	1604	1/19	113.60	--	--	--
330a	1/8	105.79	1/11	110.55	4.76	1811	1/20	136.05	1/10	141.25	5.20
331	1/8	102.52	1/11	100.35	+2.17	1921	1/20	115.00	1/10	118.41	3.41
334	1/8	107.70	1/11	111.04	3.34	1957	1/20	125.60	--	--	--
338	1/8	95.24	1/11	e96.50	1.26	H-93	1/19	123.50	1/11	125.93	2.43
367	1/8	114.15	1/11	118.65	4.50	K-50	1/19	105.20	1/11	108.85	3.65
370	1/8	102.64	1/11	107.70	5.06	N-27	1/18	114.00	1/13	115.88	1.88
389	1/20	113.60	1/12	118.22	4.62	N-65	1/18	91.60	1/13	93.50	1.90
435	1/20	119.95	1/12	122.88	2.93	P-71	1/18	111.05	1/13	113.80	2.75
436	1/20	122.66	1/12	125.50	2.84	R-36	1/19	133.20	1/13	135.45	2.25
454	1/20	131.20	1/12	133.53	2.33	V-25	1/18	100.97	1/13	102.68	1.71
467	1/20	74.59	1/12	76.87	2.28	V-58	1/18	119.00	1/13	120.68	1.68
508b	1/19	119.50	1/12	121.53	2.03	Y-36	1/20	81.10	1/12	77.20	+3.90
511	1/19	85.70	1/11	88.08	2.38	Y-38	1/20	b75.35	1/12	70.83	+4.52
539	1/19	128.00	1/10	131.13	3.13	CC-31	1/18	140.45	1/13	143.32	2.87
546	1/19	117.75	1/10	119.95	2.20	DD-101	1/20	130.54	1/13	133.32	2.78
547a	1/19	121.34	1/12	122.72	1.38	GG-76	1/18	109.54	1/10	110.90	1.36
553	1/19	122.10	1/10	124.90	2.80	HH-9	1/18	136.60	1/13	139.40	2.80
562	1/19	110.85	1/10	114.80	3.95	HH-107	1/18	122.05	1/10	123.23	1.18
564	1/19	121.80	1/10	e124.96	3.16	HH-118	1/18	92.67	1/10	96.16	3.49
569	1/20	89.35	1/10	92.77	3.42	JJ-50	1/18	137.87	1/10	140.58	2.71
641	1/19	119.80	--	--	--	LL-35	--	--	1/10	134.80	--
661	1/19	120.86	1/13	125.20	4.34	LL-80	1/20	145.00	1/10	152.48	7.48
704a	1/18	118.75	1/13	122.80	4.05	MM-104	1/20	138.50	1/10	143.80	5.30
714	1/18	126.80	1/13	129.90	3.10						

b - Pumped recently.  
e - Questionable measurement.





○ Observation well

0 1 2 3 4 MILES

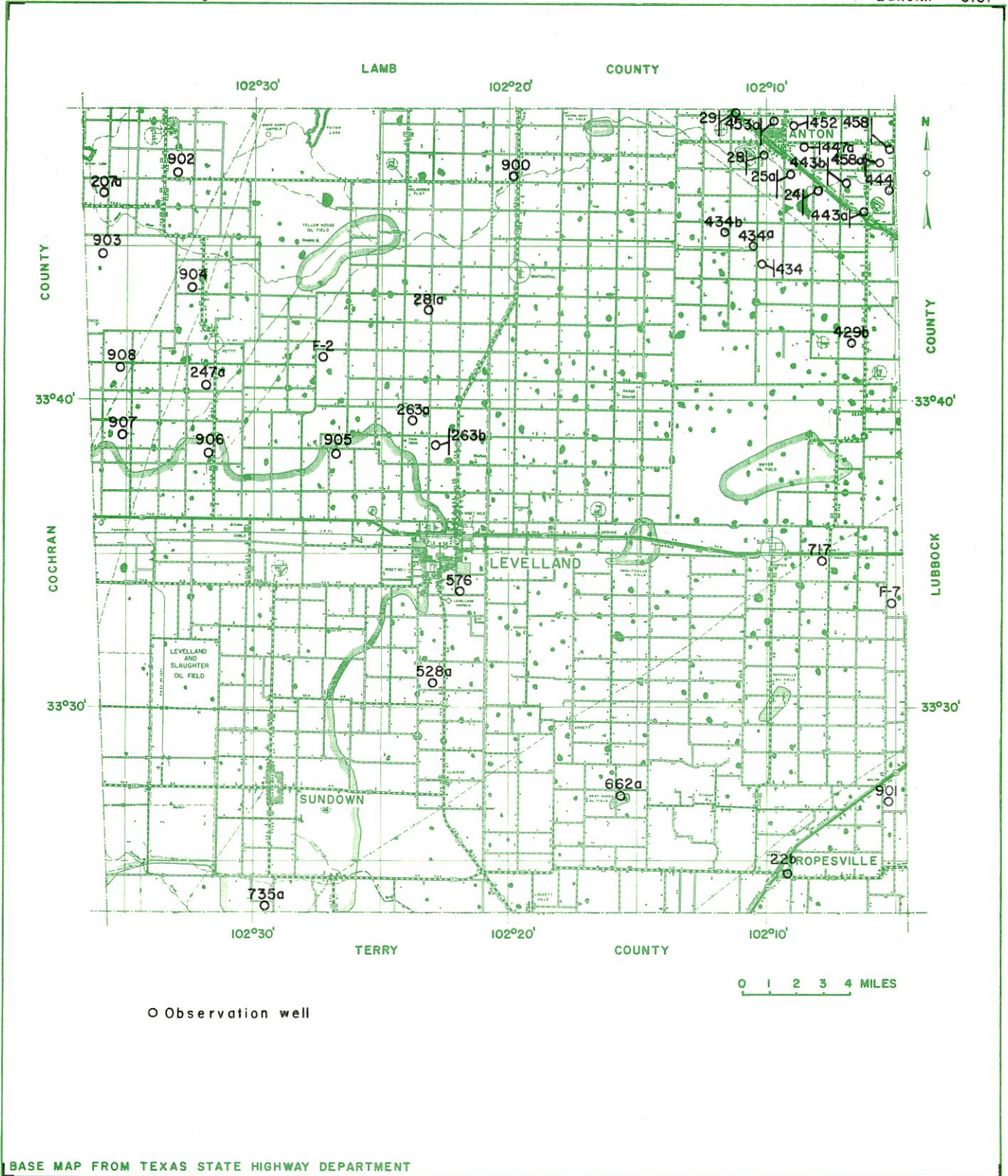
BASE MAP FROM TEXAS STATE HIGHWAY DEPARTMENT

### LOCATION OF OBSERVATION WELLS IN HALE COUNTY

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

Well	1960		1961		Decline or Rise (+), in feet
	Date	Level	Date	Level	
22b	1/12	89.57	1/6	90.48	0.91
24	1/11	39.83	1/4	29.15	+10.68
25a	1/11	45.38	1/4	39.05	+6.33
28	1/11	60.22	1/4	61.53	1.31
29	1/11	62.18	1/5	60.75	+1.43
207a	1/11	77.71	1/5	77.75	0.04
247a	1/11	132.59	1/5	133.71	1.12
263a	1/11	140.35	1/5	141.72	1.37
263b	1/11	150.37	1/5	147.77	+2.60
281a	1/11	84.11	1/5	83.41	+0.70
429b	1/11	134.92	--	--	--
434	1/11	178.30	1/4	184.77	6.47
434a	1/11	170.90	1/4	178.53	7.63
434b	1/11	130.16	--	--	--
443a	1/11	101.09	1/5	82.70	+18.39
444	1/11	84.80	1/5	85.48	0.68
447a	1/11	79.56	1/5	80.72	1.16
452	1/11	97.69	1/5	98.92	1.23
453a	1/11	92.59	1/5	89.49	+3.10
453b	1/11	99.92	1/5	101.60	1.68
458	1/11	117.93	1/5	120.35	2.42
458a	1/11	90.82	1/5	101.05	10.23
528a	1/11	173.64	1/6	173.02	+0.62
576	1/11	118.98	1/6	119.04	0.06
662a	1/12	120.89	1/6	121.12	0.23
717	1/12	112.55	1/4	114.52	1.97
735a	1/12	151.34	1/6	151.13	+0.21
900	1/11	55.59	1/5	47.23	+8.36
901	1/12	123.08	1/6	132.97	9.89
902	--	--	1/19	124.73	--
903	--	--	1/19	122.76	--
904	--	--	1/19	115.94	--
905	--	--	1/19	148.15	--
906	--	--	1/18	122.53	--
907	--	--	1/18	141.73	--
908	--	--	1/18	109.99	--
F-2	1/11	137.78	1/5	138.38	0.60
F-7	1/12	95.64	--	--	--





LOCATION OF OBSERVATION WELLS IN HOCKLEY COUNTY



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

Well	1960		1961		Decline or Rise (+), in feet	Well	1960		1961		Decline or Rise (+), in feet
	Date	Level	Date	Level			Date	Level	Date	Level	
1	1/9	102.77	1/18	103.05	0.28	A-54	1/8	79.54	1/18	81.90	2.36
6	1/25	63.00	1/18	64.02	1.02	B-33	1/9	131.72	--	--	--
7	1/8	58.20	1/18	61.05	2.85	B-138	1/8	71.43	1/18	73.56	2.13
8	1/9	56.27	1/18	56.74	0.47	B-160	1/25	69.33	1/18	70.10	0.77
13	1/8	65.26	1/18	63.92	+1.34	B-166	1/1	37.94	--	--	--
16	1/9	76.80	1/18	76.67	+0.13	C-31	1/25	115.66	1/17	116.84	1.18
30	1/8	63.44	1/18	63.00	+0.44	C-51	1/25	138.45	1/17	139.48	1.03
38	1/8	69.61	1/18	69.28	+0.33	D-14	1/25	120.98	1/17	123.22	2.24
46b	1/25	60.60	1/18	61.80	1.20	D-60	1/25	122.36	1/17	126.41	4.05
54	--	--	1/17	128.18	--	D-93	1/25	142.67	1/17	145.32	2.65
57	--	--	1/17	129.50	--	F-41	--	--	1/18	65.40	--
57e	1/25	124.94	1/17	128.80	3.86	G-163	1/25	121.25	1/18	122.05	0.80
60	1/25	105.97	1/17	107.07	1.10	L-230	--	--	1/18	66.52	--
62f	1/25	141.10	1/17	144.12	3.02	L-333	1/25	130.70	1/18	133.40	2.70
62h	1/25	129.80	1/17	127.37	+2.43	M-34	1/25	114.40	1/18	115.80	1.40
63b	--	--	1/17	144.65	--	M-82	1/25	137.10	1/18	137.85	0.75
70a	1/25	83.23	1/17	82.02	+1.21	M-177	--	--	1/18	123.38	--
71	1/25	93.40	1/17	93.56	0.16	M-180	1/25	113.24	1/18	111.03	+2.21
F-12	1/8	46.17	1/18	46.15	+0.02	1-61	--	--	1/11	68.50	--
231	1/8	111.53	1/18	110.18	+1.35	4-61	--	--	1/17	102.89	--
236	1/25	94.90	1/18	96.02	1.12	5-61	--	--	1/17	60.97	--
243	1/8	81.66	1/18	82.75	1.09	6-61	--	--	1/17	122.89	--
251b	1/25	79.00	1/18	78.34	+0.66	8-61	--	--	1/17	158.36	--
251c	1/25	107.07	1/18	107.03	+0.04	9-61	--	--	1/18	71.75	--
307	1/25	72.58	1/18	69.69	+2.89	10-61	--	--	1/18	69.53	--
322	--	--	1/18	82.20	--						

b - Pumped recently.



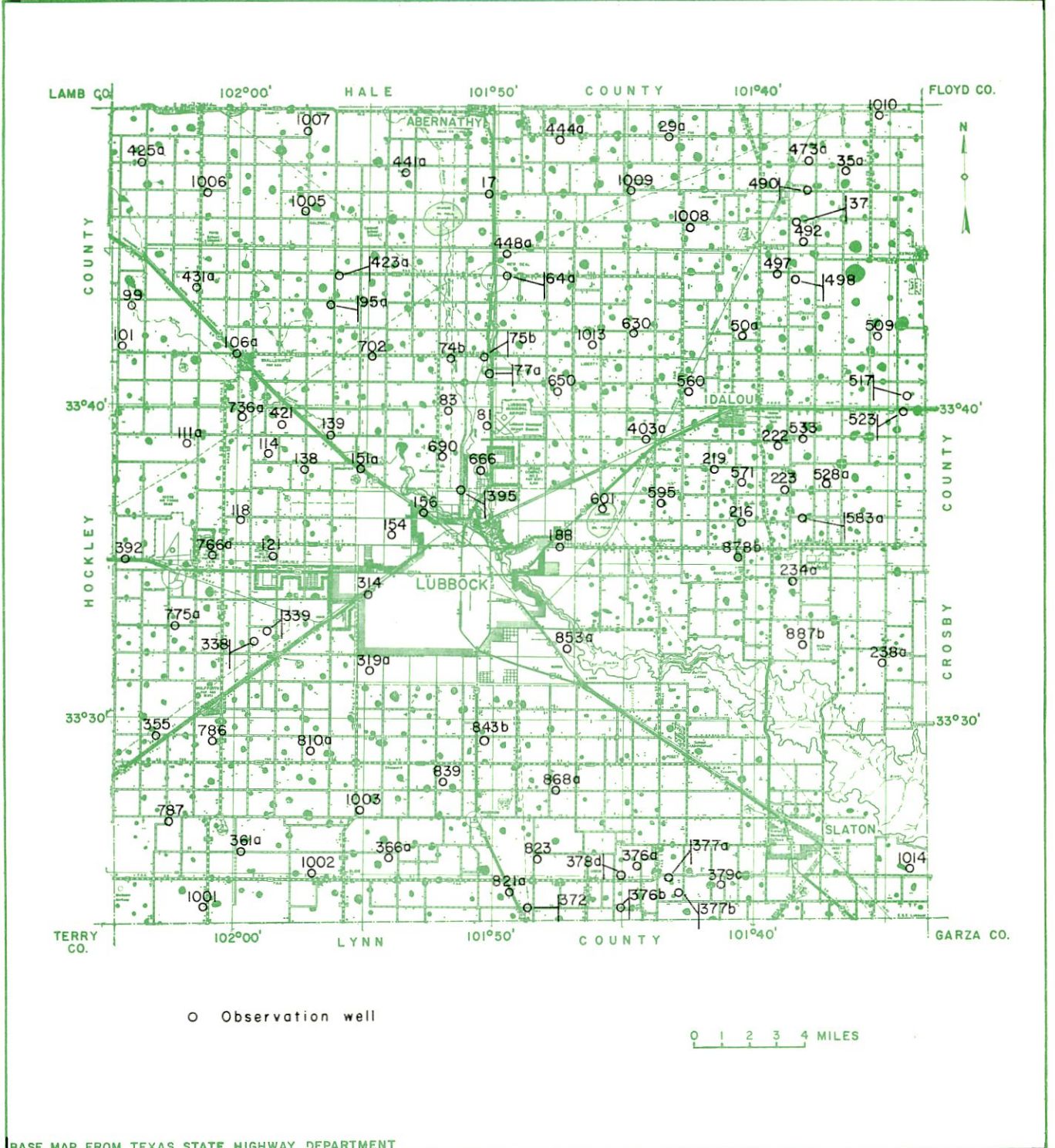


WATER-LEVEL MEASUREMENTS IN LUBBOCK COUNTY  
IN FEET BELOW LAND-SURFACE DATUM

Well	1960		1961		Decline or Rise (+), in feet	Well	1960		1961		Decline or Rise (+), in feet
	Date	Level	Date	Level			Date	Level	Date	Level	
17	1/22	144.84	1/12	147.07	2.23	425a	1/22	106.93	1/13	107.92	0.99
29a	1/22	149.55	1/16	152.47	2.92	431a	2/1	127.05	1/13	128.46	1.41
35a	1/22	147.57	1/16	149.95	2.38	441a	1/22	162.77	1/12	165.26	2.49
37	1/22	124.45	1/16	126.96	2.51	444a	1/22	156.56	1/12	158.77	2.21
50a	1/25	134.83	1/10	138.22	3.39	448a	1/25	142.71	1/12	145.75	3.04
64a	1/25	127.69	1/12	129.97	2.28	473a	1/22	144.40	1/16	146.38	1.98
74b	2/1	53.44	1/12	54.23	0.79	490	1/22	143.35	1/16	144.00	0.65
75b	2/1	112.05	1/12	113.27	1.22	492	1/22	123.77	1/16	127.19	3.42
77a	2/1	110.38	1/10	112.27	1.89	497	1/22	145.74	1/16	149.71	3.97
81	2/1	68.20	1/12	68.58	0.38	498	1/22	144.17	1/16	148.53	4.36
83	2/1	73.49	--	--	--	509	1/20	134.38	1/16	138.49	4.11
95a	2/1	126.03	1/13	128.29	2.26	517	1/25	154.28	1/16	158.60	4.32
99	2/2	59.70	1/13	60.28	0.58	523	1/25	127.10	1/16	128.48	1.38
101	2/2	110.45	1/13	116.67	6.22	528a	1/25	93.95	1/9	98.31	4.36
106a	2/1	68.94	1/13	71.24	2.30	533	1/25	122.88	1/9	129.20	6.32
111a	2/2	126.65	1/10	130.50	3.85	560	1/1	107.00	1/10	109.68	2.68
114	2/2	95.00	1/13	96.83	1.83	571	1/25	74.89	1/9	d74.42	+0.47
118	2/2	133.00	1/10	134.87	1.87	583a	1/25	69.66	1/9	d68.07	+1.59
121	2/2	b129.47	1/10	131.74	2.27	595	1/25	93.10	1/9	d88.94	+4.16
138	2/2	75.81	1/13	73.19	+2.62	601	1/25	90.43	1/10	89.37	+1.06
139	2/1	56.23	1/13	54.66	+1.57	630	1/25	125.57	1/10	127.58	2.01
151a	2/2	75.20	1/13	76.32	1.12	650	2/1	111.40	1/10	114.70	3.30
154	2/2	76.38	1/9	d72.71	+3.67	666	2/1	80.25	1/18	80.48	0.23
156	3/15	76.88	1/18	76.17	+0.71	690	2/1	77.75	1/12	79.28	1.53
188	1/25	95.01	1/10	91.82	+3.19	702	2/1	e116.05	1/13	111.27	+4.78
216	1/25	80.45	1/9	81.31	0.86	736a	2/2	80.30	1/10	83.94	3.64
219	1/25	78.37	1/9	d77.90	+0.47	766a	2/2	126.10	1/10	128.44	2.34
222	1/25	108.74	1/9	114.30	5.56	775a	2/2	114.80	1/6	118.15	3.35
223	1/25	55.37	--	--	--	787	2/2	110.60	1/6	110.76	0.16
234a	1/25	76.42	1/9	d73.20	+3.22	810a	2/3	122.95	1/6	124.25	1.30
238a	1/25	61.87	1/9	d59.76	+2.11	818a	2/3	134.60	1/6	135.02	0.42
314	2/3	59.40	--	--	--	821a	2/3	124.80	1/6	126.33	1.53
319a	2/3	105.62	1/6	107.85	2.23	823	2/3	126.24	1/6	127.80	1.56
338	2/2	109.69	1/6	111.77	2.08	839	2/3	110.79	1/6	111.27	0.48
339	2/2	103.15	1/6	105.31	2.16	843b	2/3	104.48	1/6	104.90	0.42
355	2/2	112.85	1/5	115.47	2.62	853a	2/9	52.23	1/9	d49.26	+2.97
361a	2/2	100.30	1/6	100.80	0.50	868a	2/3	108.92	1/6	110.00	1.08
366a	2/3	100.93	1/6	d101.65	0.72	878b	1/25	85.88	1/9	d79.38	+6.50
372	2/3	129.20	1/6	130.85	1.65	887b	1/25	85.70	1/9	85.25	+0.45
376a	2/3	115.54	1/9	116.35	0.81	1001	2/2	67.04	1/6	66.59	+0.45
376b	2/3	120.50	1/9	121.21	0.71	1002	2/3	95.43	1/6	94.55	+0.88
377a	2/3	112.75	1/9	114.31	1.56	1003	2/3	99.51	1/6	105.19	5.68
377b	2/3	116.74	1/9	d116.31	+0.43	1005	1/22	134.17	--	--	--
378a	2/3	112.41	1/9	113.25	0.84	1006	1/22	161.45	1/13	160.19	+1.26
379c	2/3	103.68	1/9	d104.12	0.44	1007	1/22	140.90	1/12	142.44	1.54
392	2/2	112.55	1/10	114.19	1.64	1008	1/22	143.76	1/12	147.37	3.61
395	2/1	73.50	1/12	73.24	+0.26	1009	1/22	140.87	1/12	142.45	1.58
403a	2/1	75.48	1/10	d77.02	1.54	1010	1/22	147.88	1/13	150.06	2.18
421	2/2	70.35	1/13	71.07	0.72	1013	1/20	118.22	1/10	120.69	2.47
423a	2/1	129.20	--	--	--	1014	2/3	186.97	1/9	191.98	5.01

b - Pumped recently.  
d - Near "Wet Weather" Lake.  
e - Questionable measurement.





LOCATION OF OBSERVATION WELLS IN LUBBOCK COUNTY

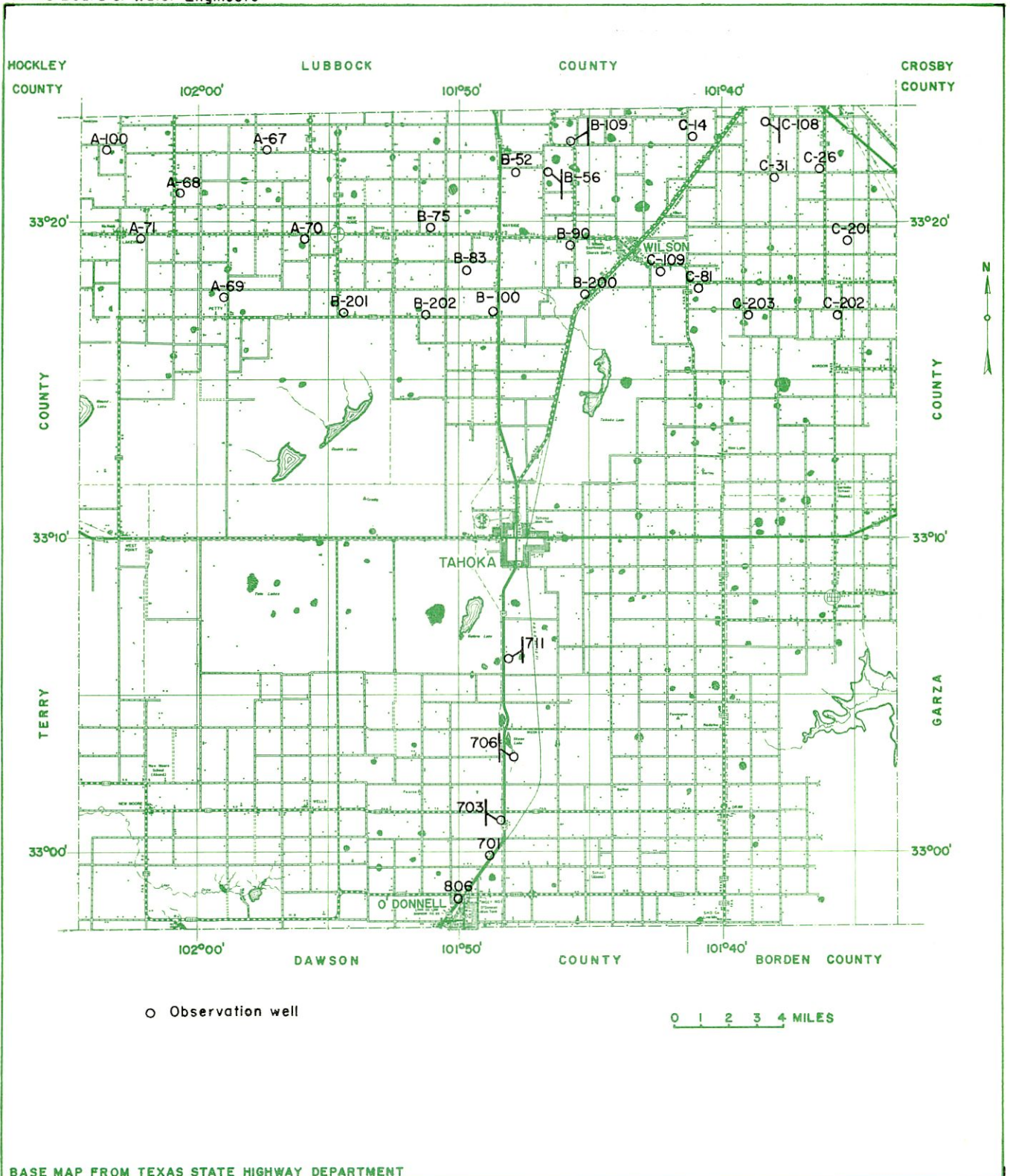
WATER-LEVEL MEASUREMENTS IN LYNN COUNTY  
IN FEET BELOW LAND-SURFACE DATUM

Well	1960		1961		Decline or Rise (+), in feet
	Date	Level	Date	Level	
701	1/18	65.59	1/18	a66.85	1.26
703	1/18	61.39	1/18	d61.22	+0.17
706	--	--	1/18	d1.10	--
711	1/18	17.10	1/18	d9.03	+8.07
806	--	--	1/18	d33.42	--
A-67	1/4	96.06	1/17	d92.37	+3.69
A-68	1/4	105.20	1/17	d102.57	+2.63
A-69	1/4	86.47	1/17	86.97	0.50
A-70	1/4	70.68	1/17	d68.93	+1.75
A-71	1/4	87.65	1/17	86.96	+0.69
A-100	1/4	92.07	1/17	92.11	0.04
B-52	1/13	119.94	1/17	120.55	0.61
B-56	1/13	104.30	1/17	103.09	+1.21
B-75	1/4	109.24	1/17	109.72	0.48
B-83	--	--	1/17	90.20	--
B-90	1/13	79.05	1/17	78.64	+0.41
B-100	1/4	67.50	1/17	68.07	0.57
B-109	1/13	122.23	1/17	d122.06	+0.17
B-200	1/13	46.88	1/17	42.31	+4.57
B-201	1/4	121.86	1/17	122.85	0.99
B-202	--	--	1/17	d91.53	--
C-14	1/13	81.40	1/17	82.03	0.63
C-26	1/13	64.40	1/17	61.09	+3.31
C-31	1/13	34.38	1/17	22.54	+11.84
C-81	1/13	79.42	1/17	79.98	0.56
C-108	1/13	86.57	1/17	86.66	0.09
C-109	1/13	75.48	1/17	75.02	+0.46
C-201	1/13	61.53	1/17	62.63	1.10
C-202	1/13	39.30	1/17	40.33	1.03
C-203	1/13	65.50	1/17	d65.25	+0.25

a - Pumping.

d - Near "Wet Weather" Lake.



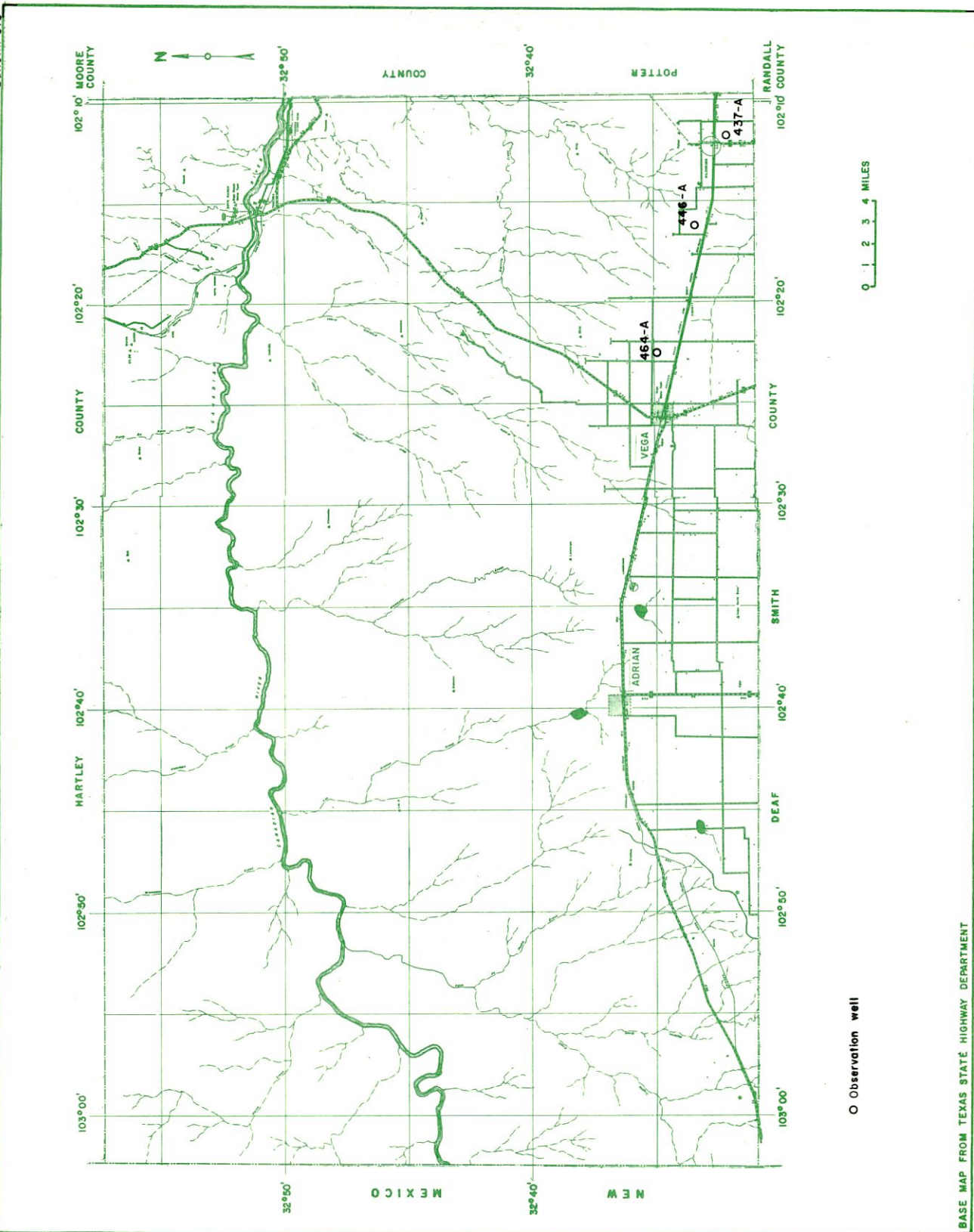


LOCATION OF OBSERVATION WELLS IN LYNN COUNTY



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

Well	1960		1961		Decline or Rise (+), in feet
	Date	Level	Date	Level	
437a	1/6	197.85	1/3	201.38	3.53
446a	1/6	196.42	1/3	201.59	5.17
464a	1/6	227.30	1/3	225.80	+1.50



O Observation well

BASE MAP FROM TEXAS STATE HIGHWAY DEPARTMENT

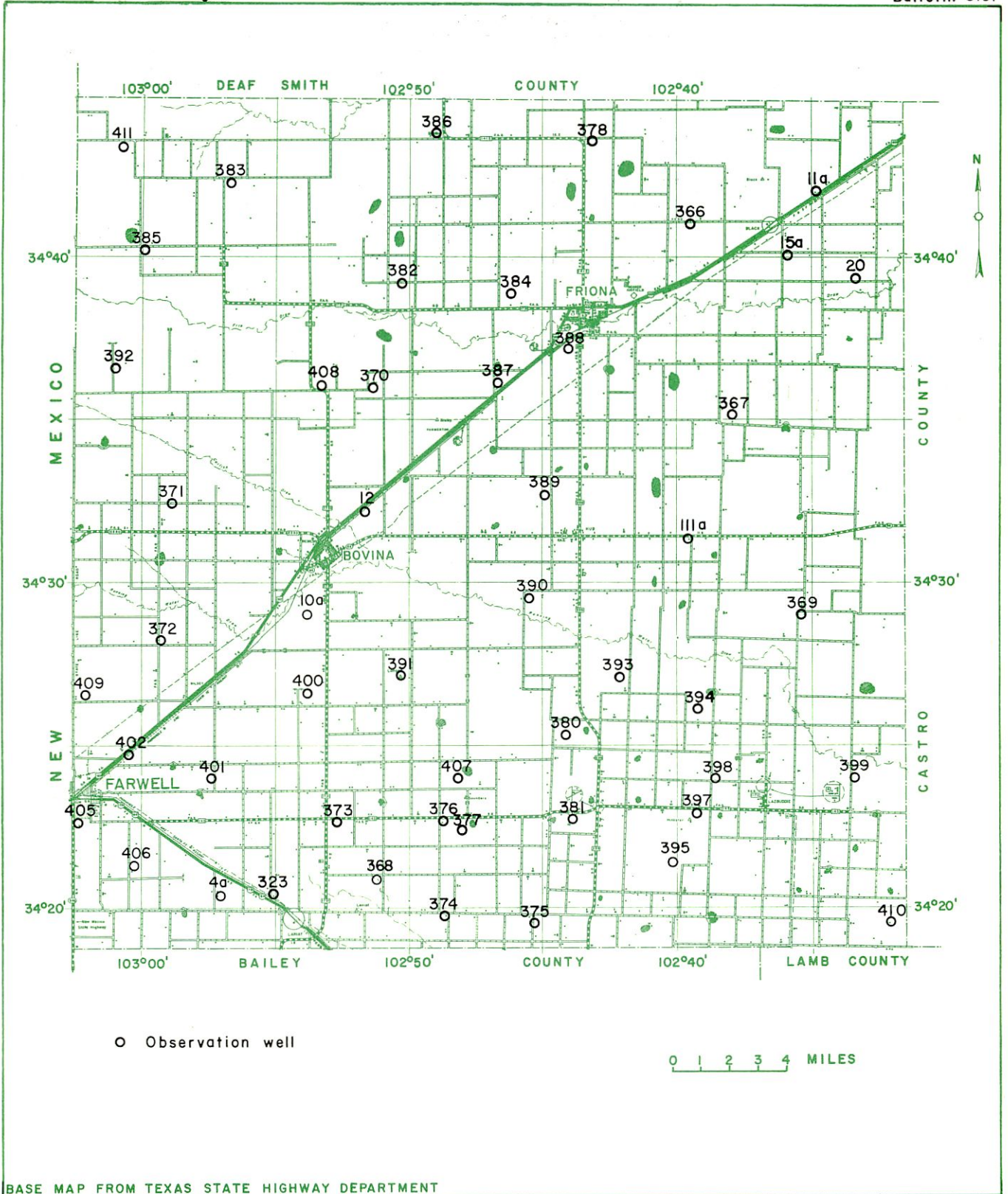
# LOCATION OF OBSERVATION WELLS IN OLDHAM COUNTY

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

Well	1960		1961		Decline or Rise (+), in feet
	Date	Level	Date	Level	
4a	--	--	1/5	136.81	--
10a	1/7	197.52	1/4	203.58	6.06
11a	1/28	142.05	1/4	145.77	3.72
12	1/29	b180.60	1/4	b181.08	0.48
15a	1/28	180.00	1/4	185.50	5.50
20	1/28	141.32	1/4	148.10	6.78
111a	1/29	207.05	1/4	206.02	+1.03
323	1/7	119.30	1/5	122.00	2.70
366	1/28	188.90	1/4	190.97	2.07
367	1/29	245.83	1/4	248.52	2.69
368	1/7	135.35	1/5	137.63	2.28
369	1/29	167.92	1/4	165.68	+2.24
370	1/29	284.50	1/4	288.46	3.96
371	1/7	206.90	1/4	210.60	3.70
372	1/7	236.74	1/4	240.69	3.95
373	1/7	160.83	1/5	164.19	3.36
374	1/7	122.14	1/5	123.55	1.41
375	1/7	107.98	1/5	110.56	2.58
376	1/7	170.27	1/5	173.30	3.03
377	1/28	161.43	1/5	164.18	2.75
378	1/29	225.66	1/4	227.94	2.28
380	1/28	200.54	1/5	203.16	2.62
381	1/28	179.99	1/5	182.24	2.25
382	1/29	203.46	1/4	206.58	3.12
383	1/29	225.77	1/4	226.50	0.73
384	1/29	203.60	1/4	201.46	+2.14
385	1/29	238.34	1/4	242.70	4.36
386	1/29	b296.77	1/4	303.30	6.53
387	1/29	261.90	1/4	266.36	4.46
388	1/28	220.60	1/4	224.34	3.74
389	1/28	237.40	1/4	241.09	3.69
390	1/28	179.30	1/4	183.39	4.09
391	1/28	229.21	1/5	232.72	3.51
392	1/29	304.90	--	--	--
393	1/28	189.84	1/4	193.72	3.88
394	1/28	168.47	1/4	168.44	+0.03
395	1/28	161.78	1/4	168.15	6.37
397	1/7	192.10	1/4	194.70	2.60
398	1/7	190.31	1/4	193.80	3.49
399	1/28	152.30	1/4	155.00	2.70
400	1/28	b236.25	1/5	235.35	+0.90
401	1/7	190.99	1/5	197.60	6.61
402	1/29	221.10	1/5	222.96	1.86
405	1/7	202.90	1/5	204.36	1.46
406	--	--	1/5	188.85	--
407	1/28	195.15	1/5	197.53	2.38
408	1/29	270.35	1/4	272.45	2.10
409	--	--	1/4	236.90	--
410	1/28	158.03	1/4	159.40	1.37
411	1/29	279.71	1/4	285.18	5.47

b - Pumped recently.





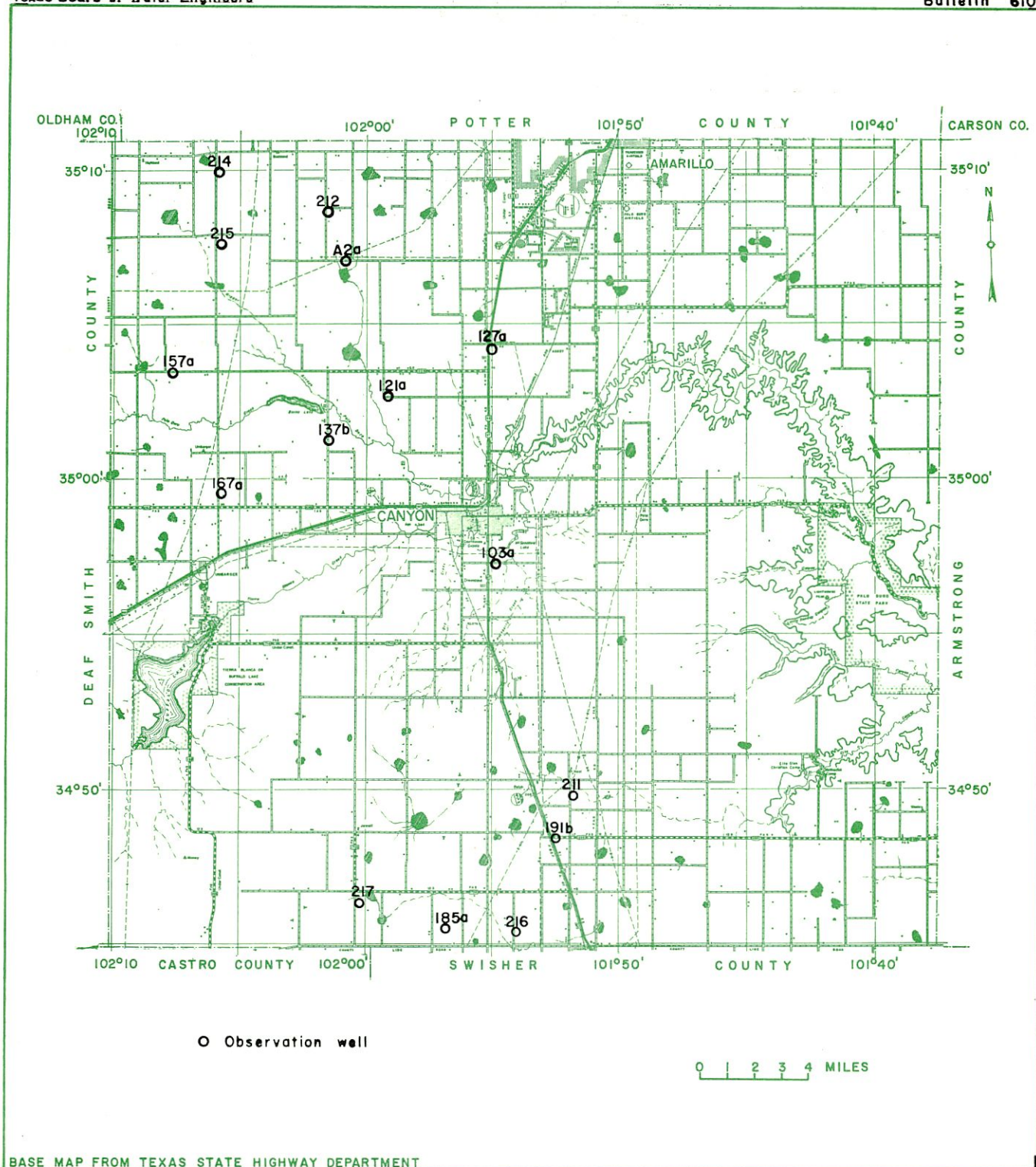
LOCATION OF OBSERVATION WELLS IN PARMER COUNTY

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

Well	1960		1961		Decline or Rise (+), in feet
	Date	Level	Date	Level	
103a	1/4	4.20	1/3	d3.79	+0.41
121a	1/5	150.80	1/3	153.04	2.24
127a	1/5	145.75	1/3	148.87	3.12
137b	1/5	128.20	1/3	b131.10	2.90
157a	1/4	120.97	1/3	127.36	6.39
167a	1/4	130.40	1/3	134.54	4.14
185a	1/4	180.30	1/3	173.93	+6.37
191b	1/4	187.65	1/3	187.78	0.13
211	1/4	171.80	1/3	172.89	1.09
212	--	--	1/3	168.34	--
214	1/4	189.25	1/3	196.47	7.22
215	1/4	164.50	1/3	164.38	+0.12
216	1/4	163.60	1/3	162.90	+0.70
217	1/4	174.10	1/3	173.76	+0.34
A-2a	1/6	139.16	1/3	139.54	0.38

b - Pumped recently.

d - Near "Wet Weather" Lake.

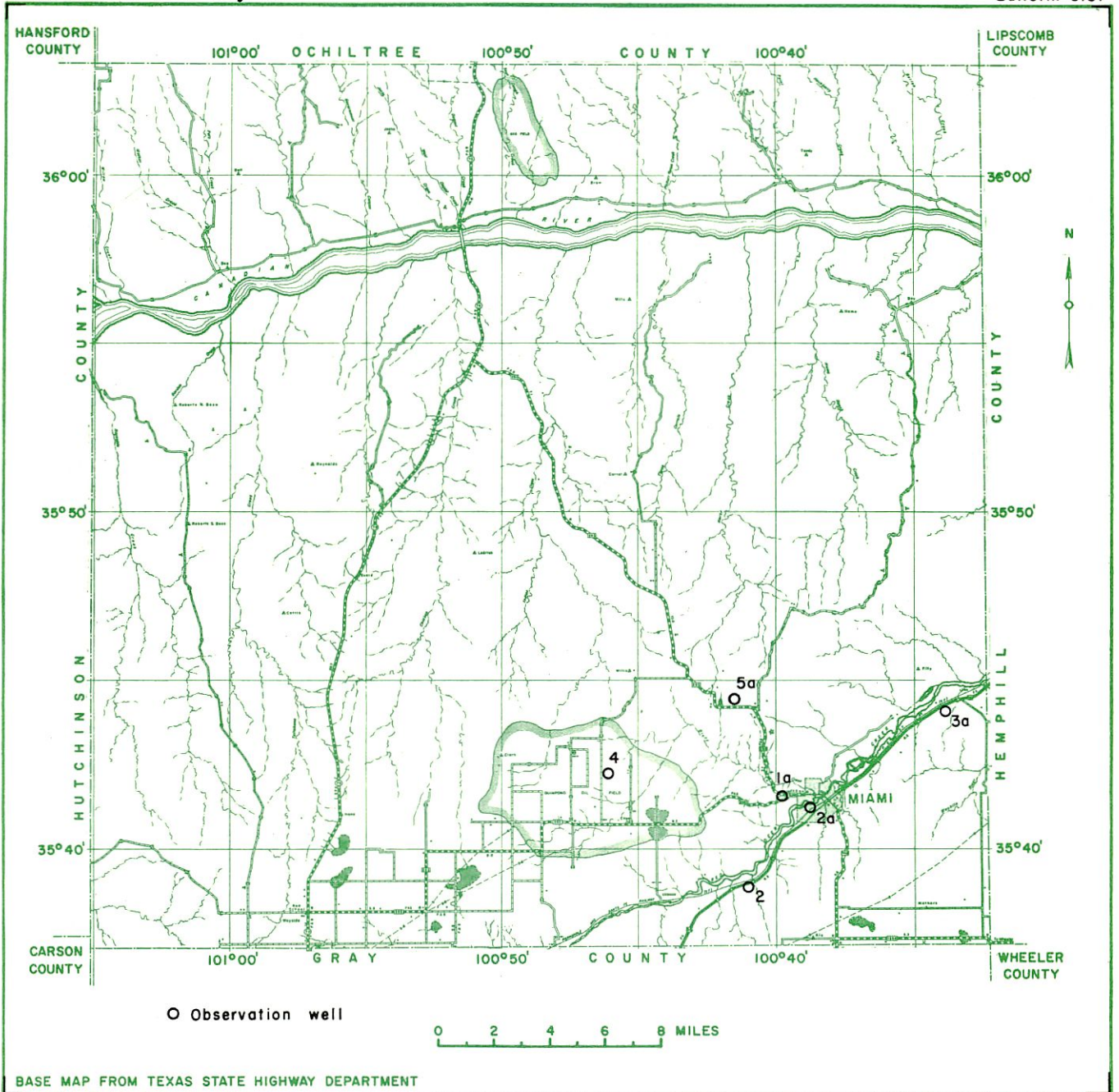


LOCATION OF OBSERVATION WELLS IN RANDALL COUNTY



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

Well	1960		1961		Decline or Rise (+), in feet
	Date	Level	Date	Level	
1a	2/22	110.67	1/17	110.41	+0.26
2	--	--	1/17	360.19	--
2a	2/22	43.07	1/17	41.49	+1.58
3a	2/22	41.30	1/17	41.12	+0.18
4	2/22	364.74	1/17	365.64	0.90
5a	2/22	376.69	1/17	376.72	0.03



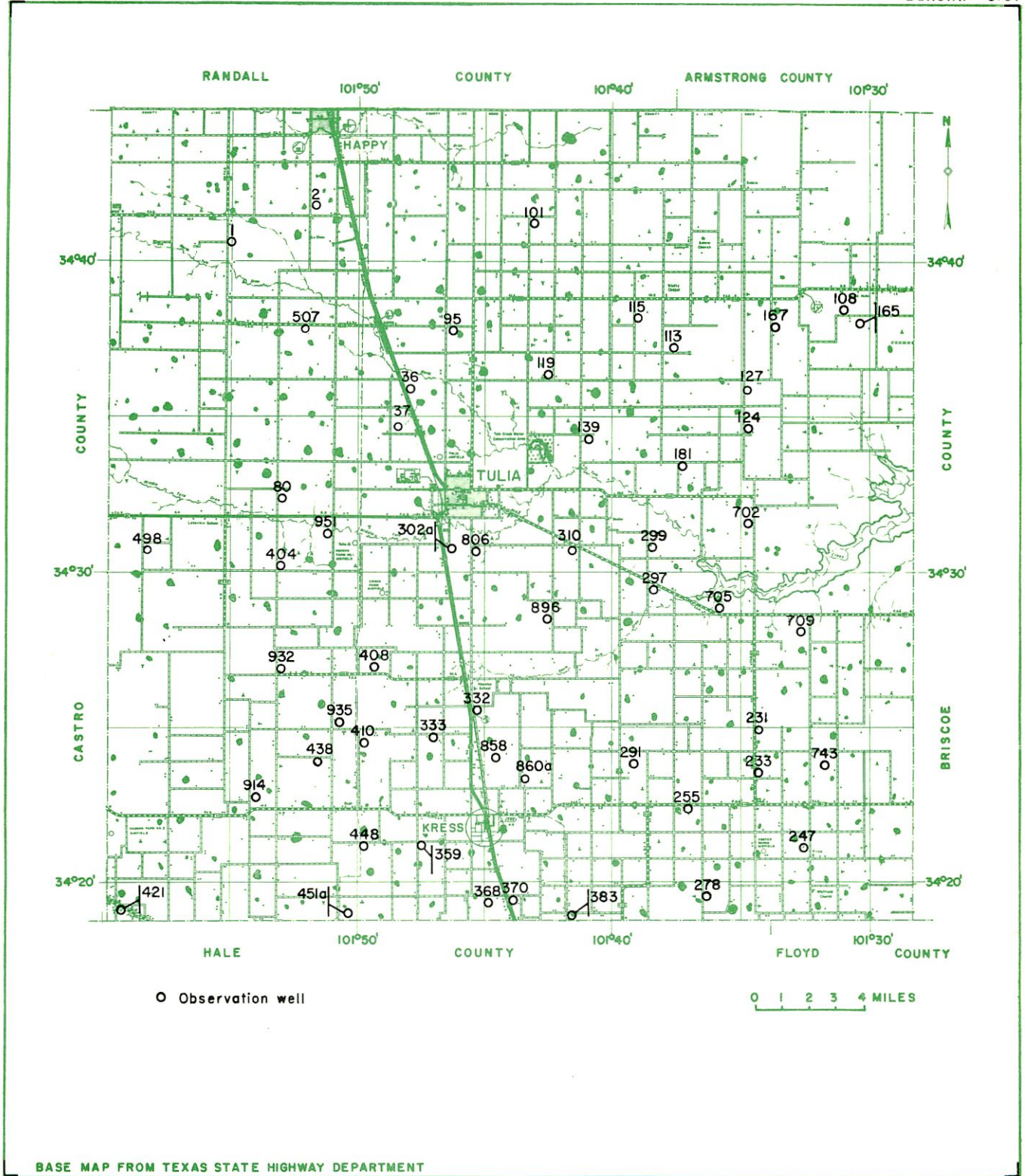
LOCATION OF OBSERVATION WELLS IN ROBERTS COUNTY

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

Well	1960		1961		Decline or Rise (+), in feet
	Date	Level	Date	Level	
1	1/27	107.60	1/16	107.79	0.19
2	1/27	78.67	1/16	80.76	2.09
36	1/27	89.20	1/16	90.00	0.80
37	--	--	1/16	105.85	--
80	1/26	101.70	1/16	104.20	2.50
95	1/27	111.40	1/16	106.10	+5.30
101	1/27	102.44	--	--	--
108	1/27	109.75	1/9	109.85	0.10
113	1/27	84.40	1/16	88.03	3.63
115	1/27	86.90	1/16	87.40	0.50
119	1/27	83.60	1/16	83.22	+0.38
124	1/27	81.90	1/9	81.35	+0.55
127	--	--	1/9	98.15	--
139	1/26	72.65	1/16	76.77	4.12
165	1/27	120.00	1/9	118.50	+1.50
167	1/27	82.48	1/9	83.50	1.02
181	1/27	90.63	1/16	91.62	0.99
231	--	--	1/16	108.98	--
233	1/26	102.75	1/16	103.20	0.45
247	1/26	106.43	1/9	107.07	0.64
255	1/26	84.80	1/16	84.98	0.18
278	1/26	116.35	1/9	118.90	2.55
291	1/26	91.80	1/16	93.21	1.41
297	1/26	75.43	1/16	72.68	+2.75
299	1/26	62.45	1/16	66.76	4.31
302a	1/27	105.37	1/16	109.00	3.63
310	--	--	1/16	110.32	--
332	1/27	106.19	1/16	104.50	+1.69
333	1/27	109.45	1/16	110.59	1.14
359	1/26	132.40	1/17	134.32	1.92
368	1/26	138.34	1/17	142.42	4.08
370	1/26	126.34	--	--	--
383	1/26	123.50	1/16	121.82	+1.68
404	1/26	134.70	1/16	135.22	0.52
408	1/26	132.80	1/16	134.14	1.34
410	1/26	120.00	1/17	122.76	2.76
421	1/26	101.35	1/17	103.86	2.51
438	1/26	164.26	1/17	165.90	1.64
448	1/26	138.80	1/17	138.95	0.15
451a	1/1	96.36	--	--	--
498	1/26	129.10	--	--	--
507	1/27	117.45	1/16	119.76	2.31
702	1/27	51.55	1/9	50.10	+1.45
705	1/26	81.20	1/16	78.15	+3.05
709	1/26	108.80	1/9	108.93	0.13
743	--	--	1/9	86.40	--
806	1/26	94.97	1/16	98.40	3.43
858	1/27	107.73	1/16	107.53	+0.20
860a	1/26	121.63	1/16	123.46	1.83
896	--	--	1/16	88.48	--
914	1/26	150.57	1/17	153.12	2.55
932	1/26	141.00	1/16	144.63	3.63
935	1/26	125.30	1/17	127.50	2.20
951	--	--	1/16	94.18	--

e - Questionable measurement.



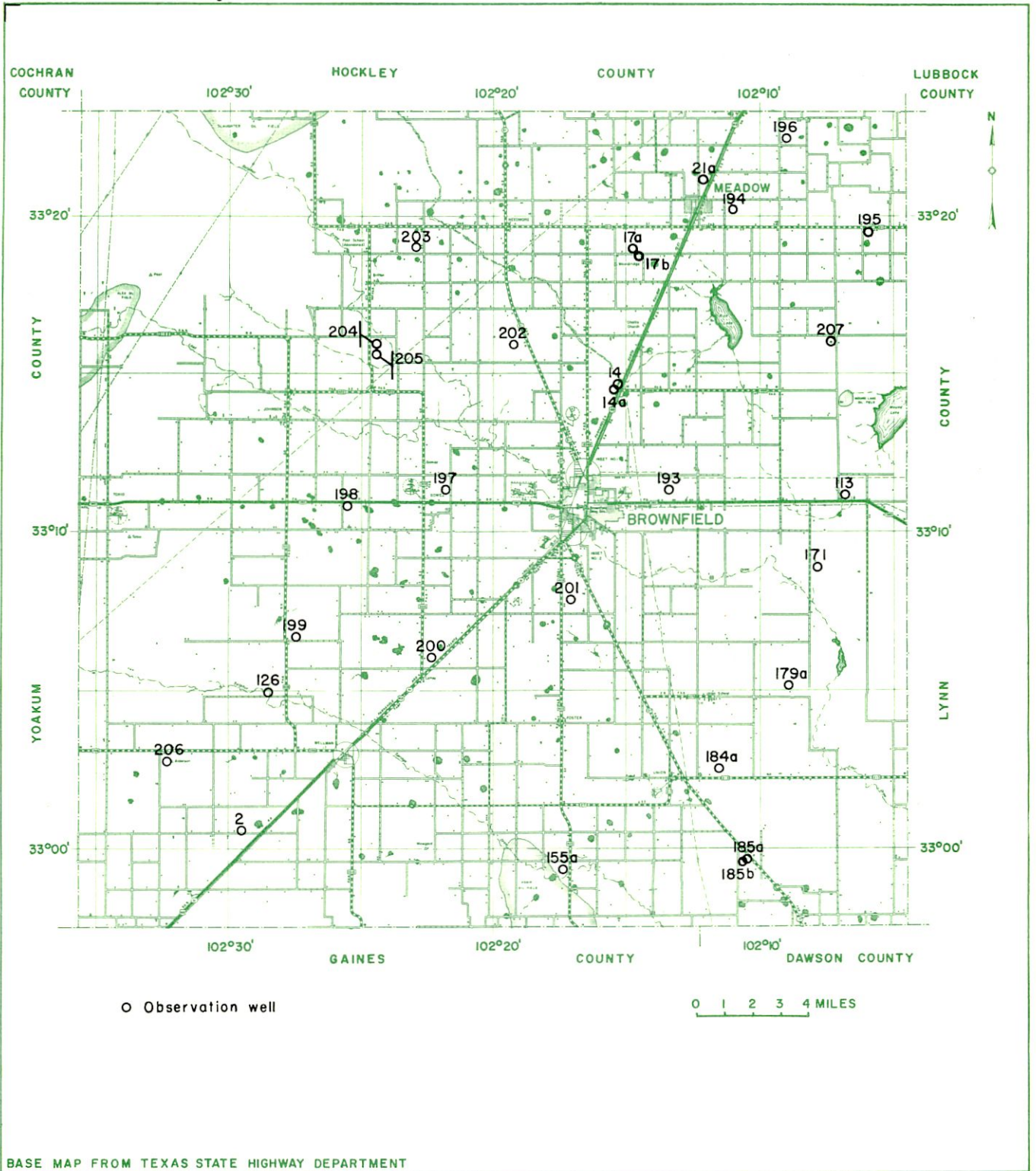


LOCATION OF OBSERVATION WELLS IN SWISHER COUNTY

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

Well	1960		1961		Decline or Rise (+), in feet
	Date	Level	Date	Level	
2	--	--	1/13	95.07	--
14	1/11	94.45	--	--	--
14a	--	--	1/13	99.16	--
17a	1/11	84.46	--	--	--
17b	--	--	1/13	76.13	--
21a	1/11	68.40	1/12	66.39	+2.01
113	1/11	10.98	--	--	--
126	1/11	45.87	1/13	57.02	11.15
155a	1/11	94.93	1/12	93.56	+1.37
171	1/11	14.48	1/12	14.60	0.12
179a	1/11	53.03	1/12	53.50	0.47
184a	1/11	93.20	1/12	92.99	+0.21
185a	1/11	72.78	--	--	--
185b	--	--	1/12	79.04	--
193	1/11	89.92	1/12	86.27	+3.65
194	1/11	86.08	1/12	87.14	1.06
195	1/11	90.05	1/12	89.57	+0.48
196	1/11	63.92	1/12	63.21	+0.71
197	1/11	105.80	1/13	103.45	+2.35
198	1/11	146.75	1/13	149.23	2.48
199	1/11	61.88	--	--	--
200	1/11	107.54	1/13	110.39	2.85
201	1/11	85.40	1/12	84.72	+0.68
202	1/11	112.64	1/6	116.56	3.92
203	1/11	157.65	1/6	159.02	1.37
204	1/11	126.27	1/6	126.52	0.25
205	1/11	124.50	1/6	120.82	+3.68
206	1/11	98.90	1/13	101.01	2.11
207	1/11	86.25	1/12	85.66	+0.59





**LOCATION OF OBSERVATION WELLS IN TERRY COUNTY**



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

Well	1960		1961		Decline or Rise (+), in feet
	Date	Level	Date	Level	
149	1/12	87.33	1/16	87.51	0.18
150	1/12	70.30	1/16	70.28	+0.02
151	1/12	65.84	1/16	66.01	0.17
152	1/12	77.55	1/16	78.35	0.80
153	1/12	66.13	1/16	65.78	+0.35
154	1/12	84.75	1/16	82.81	+1.94
155	1/12	92.60	1/16	90.80	+1.80
156	1/12	60.12	1/16	59.61	+0.51
158	1/12	95.13	1/13	96.47	1.34
159	1/12	119.45	1/13	118.87	+0.58
160	1/12	89.10	--	--	--
161	--	--	1/16	103.93	--
162	1/12	58.83	1/16	56.67	+2.16
163	1/12	87.36	1/16	77.14	+10.22
164	1/12	52.98	1/16	51.75	+1.23
165	1/12	69.64	1/16	69.29	+0.35
166	1/12	52.55	1/16	53.09	0.54
167	1/12	43.02	1/16	42.70	+0.32
168	1/12	105.04	1/16	103.88	+1.16
169	1/12	50.34	1/16	49.64	+0.70
170	1/12	62.43	--	--	--
171	1/12	91.54	1/16	87.18	+4.36
172	1/12	89.87	1/16	87.60	+2.27
173	1/12	44.88	1/16	41.40	+3.48
174	1/12	116.85	1/13	116.67	+0.18
176	1/12	106.94	1/13	107.05	0.11
178	1/12	110.63	1/13	110.00	+0.63
179	1/12	94.50	1/13	94.60	0.10

# LOCATION OF OBSERVATION WELLS IN YOKUM COUNTY

BASE MAP FROM TEXAS STATE HIGHWAY DEPARTMENT

0 1 2 3 4 MILES

○ Observation well

