UNITED STATES DEPARTMENT OF THE INTERIOR Harold L. Ickes, Secretary

GEOLOGICAL SURVEY
W. C. Mendenhall, Director

Bulletin 883-B

SPIRIT LEVELING IN TEXAS

PART 2. PANHANDLE, 1896-1939

J. G. STAACK Chief Topographic Engineer



UNITED STATES
GOVERNMENT PRINTING OFFICE
WASHINGTON: 1941

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INTRODUCTION

Scope of report.—This bulletin, which for convenience is to be published in seven parts, contains the results of all spirit leveling done by the Geological Survey in Texas, including those heretofore published.¹ Each of the parts deals with one of seven sections into which the State has been divided for this purpose and which have been designated northeastern, southeastern, north-central, south-central, west-central, and western Texas, and the Panhandle. In each part descriptions of the points for which figures of elevation have been determined are listed according to the quadrangles in which the points occur. Results of spirit leveling other than that done by the Geological Survey have not been included.

Classification of leveling.—Spirit leveling is classified according to the degree of refinement in the instruments and methods used and according to the closure errors.

First-order leveling ² consists of leveling done with the most improved instruments, all sections being leveled twice, in opposite directions, under varying conditions. Closures are not allowed to exceed the amount in feet represented by the formula

$0.017\sqrt{\text{length of section in miles.}}$

All corrections for rod error, temperature, and unbalanced sights are supplied, as well as the orthometric corrections for convergence toward the poles of level surfaces of different elevations.

² See Avers, H. G., Manual of first-order leveling: U. S. Coast and Geodetic Survey Special Pub. 140, 1929.

¹ For the results of spirit leveling in Texas previously published see Triangulation and spirit leveling—Southern Texas: U. S. Geol. Survey 18th Ann. Rept., pt. 1, pp. 364-391, 1897; Triangulation and spirit leveling—Southern Texas: U. S. Geol. Survey 19th Ann. Rept., pt. 1, pp. 327-353, 1898; Triangulation and spirit leveling—Southern Texas: U. S. Geol. Survey 20th Ann. Rept., pt. 1, pp. 423-457, 1899; Triangulation, primary traverse, and spirit leveling—Southern Texas: U. S. Geol. Survey 21st Ann. Rept., pt. 1, pp. 483-495, 1900; Spirit leveling in Texas, 1896 to 1910, inclusive: U. S. Geol. Survey Bull. 468, 133 pp., 1911; Spirit leveling in Texas, 1896 to 1915, inclusive: U. S. Geol. Survey Bull. 637, 254 pp., 1916.

Second-order leveling, according to regulations of the Geological Survey, comprises lines leveled twice with reliable instruments, though not necessarily of the most improved type. Closures are not allowed to exceed $0.035\sqrt{\text{length of section in miles}}$.

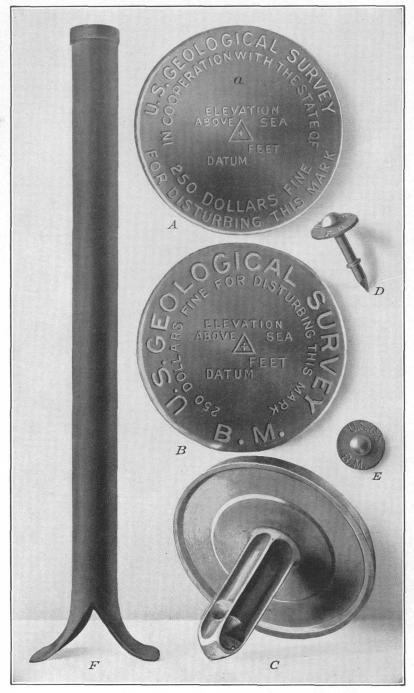
Third-order leveling is made up of lines that are run, either with first-order equipment or with an engineer's wye level and rods of the New York type, in single-line circuits that are required to closs within the limits, in feet, of $0.05\sqrt{\text{length of circuit in miles.}}$ This is equivalent to $0.071\sqrt{\text{length of section}}$ if the line is leveled twice.

All leveling done by the Geological Survey in Texas is of third-order accuracy except as otherwise stated.

Adjustments.—The adjustment of a net of leveling begins with the first-order lines. Most of these lines in both the United States and Canada have already been combined in a general net, and the orthometric differences derived from the observed values by correction for the convergence of level planes toward the north have been adjusted by least squares to remove accidental closure errors. adjustment of this kind was made in 1929 by the United States Coast and Geodetic Survey and is known as the "1929 general adjustment of first-order leveling." This adjustment included the first-order lines in Texas, and the elevations thus derived are the fundamental references for elevations determined by second- and third-order nets. third-order leveling of the Geological Survey in Texas has been adjusted by determining weighted mean elevations for new junction points and prorating the errors of each link. The weights are taken as the reciprocals of lengths of links. The third-order net has thus been brought into agreement with the best information available for the results of the fundamental first-order leveling, although the published figures of elevation may be changed slightly by future adjustments of the level net.

Bench marks.—The bench marks used by the Geological Survey (pl. 1) are of two general classes—principal and supplementary. Principal bench marks are placed at more or less regular intervals along a level line, at sites offering them protection from disturbance and affording favorable conditions for their future recovery. They are usually bronze or aluminum tablets, iron posts, or copper bolts. Supplementary or auxiliary bench marks are less formal in design and are placed between the principal bench marks. Some of the supplementary bench marks in common use are marks cut with a chisel on rock or masonry, spikes, and copper nails fitted with washers.

The tablets are circular in shape, measure 3% inches in diameter, and taper from a thickness of three-eighths of an inch at the center to about a quarter of an inch near the rounded edge. During a short period in the earlier years of the Survey's leveling the tablets set were



STANDARD GEOLOGICAL SURVEY BENCH MARKS.

A and B, Standard tabltes, principal bench marks, used where masonry or rock is available to hold them. A is used in cooperating States; the State name is inserted at a. C, Under side of A and B, showing shank used to hold tablet in place. D and E, Two views of copper nail and copper washer, a supplementary bench mark, used for points lying between those marked by standard tablets. F, Standard iron post fitted with bronze cap similar in design to the standard tablet, formerly used where no rock or masonry was available; superseded by concrete post with tablet set in top.

made of aluminum. The softness of this metal, however, made them susceptible to damage, so that aluminum as a material for tablets was soon discarded. The earliest tablets were made of bronze and it is the material now specified for standard tablets. Each tablet is cast with a 3-inch shank extending from the center of its reverse side, by means of which it is cemented in place, and each bears an inscription The inscriptions on the tablets already placed differ in many details, because of changes in design at various times. face of every tablet, however, is cast with the words "U. S. Geological Survey," a cross at the center, which indicates the fiducial point for position or elevation, and the words "Elevation above sea." On some tablets the inscription indicates that they were set in connection with a project in which a State or other organization cooperated; on some, the inscription includes a triangle, which signifies a located point, enclosing a small cross at the center. Tablets bearing a triangle enclosing a cross may be used not only as bench marks but also as triangulation- or traverse-station marks. The inscription on most of the tablets already set includes the warning "250 dollars fine for disturbing this mark," but the latest design omits this phrase and adds the sentence "For information write the Director, Washington, D. C."

If the tablet is set to mark a transit-traverse station, the traverse-man stamps upon it with steel dies letters indicating this use of it, such as "Prim Trav Sta," "PTS," or "TT," as well as his own identifying letter or letters, the serial number of the station, and the year. If the tablet is set as a bench mark, the levelman stamps it with his identifying letter or letters, the serial number of the bench mark, and the year. He may at the same time stamp upon it the figures of elevation to the nearest foot, or these figures may be added later. A tablet may be used both as a traverse-station mark and as a bench mark. The engineer who establishes the mark stamps it as noted above and records the stamping with the description to facilitate identification. Engineers who use the mark in subsequent surveys do not alter the original stamping nor add their own stampings with the exception of figures of elevation.

The figures of elevation that appear on a tablet are usually those determined by field computation only. It is sometimes found, therefore, that they do not represent the latest information. This has happened either because they refer to some independent datum temporarily adopted before first-order trunk lines made standard datum available, or because a later adjustment made in the office has rendered necessary an appreciable change in the figures as determined in the field. It is assumed that engineers and others who require accurate figures of elevation for the marks will use those printed in the bulletin instead of accepting the stamped figures. If the appropriate bulletin is not conveniently accessible, a request for the desired infor-

mation may be addressed to the Director of the Geological Survey, United States Department of the Interior, Washington, D. C.

The tablet, of whatever style, is cemented into a hole drilled in solid rock or in the wall of a public building, bridge abutment, or other masonry structure. Where masonry or rock is not available the tablet is set in the top of a reinforced concrete post, which may be either precast or mixed and molded at the selected site. The posts are about 8 inches square or 8 inches in diameter at the top and larger at the base. They are generally set so as to project about 6 inches above ground and are made sufficiently long to reach below the frost line.

Antedating the concrete posts which are now constructed to hold the tablets, in places where masonry or rock is not available, are wrought-iron posts, to the tops of which are riveted bronze caps similar in design to the tablets. These iron posts measure 4 feet in length and 3½ inches in outer diameter and are set about 3 feet in the ground. The bottom of the post spreads out to a width of about 10 inches in order to give it a firm footing in the earth. No iron posts have been set in recent years. They have proved impracticable, as they are easily disturbed and are eventually destroyed by rust at the ground level.

The third form of principal bench mark, set only in the early leveling, is a copper bolt, designed to be wedged into a drill hole in rock or masonry and perhaps further secured with lead or cement. This bolt measures 4 inches in length and 1 inch in diameter and has a slot at the bottom end into which fits a brass wedge. The wedge serves to expand the lower part of the bolt, so that after the bolt has been driven nearly its full length into the hole, it cannot easily be removed. The exposed end of the bolt bears an appropriate inscription, stamped upon it with steel dies. The inscription is made up of the letters "USGS," the letters indicating the datum used, the figures of elevation, and the abbreviated word "Ft."

Supplementary bench marks are of many kinds. One kind consists of a copper nail 1½ inches long supplied with a copper washer seven-eighths of an inch in diameter. The nail is driven into the root of a tree or cemented into rock. The designation "USGSBM" is stamped on each washer, and on some washers the abbreviation of the name of the cooperating State is added. Another kind of supplementary bench mark is a chiseled square, used on the horizontal surface of a rock or masonry structure, or a chiseled cross, used on a vertical surface. Nails, track spikes, and small capped iron pipes also serve as supplementary bench marks, and easily described and recognized points, such as doorsills and tops of hydrants, are occasionally used.

Preservation and restoration of bench marks.—Any person who finds that a principal bench mark has been damaged, disturbed, or destroyed or that it should be reset or redescribed on account of highway or other improvements will render a public service by communicating the facts to the Director, Geological Survey, United States Department of the Interior, Washington, D. C., before taking any action affecting the location or elevation of the mark. A proper form, accompanied by a return-addressed, franked envelope, will be sent for use in reporting the action taken and in recording the revised description of the mark, if any, and the notes made in obtaining the revised elevation.

Datum.—All elevations determined by the Geological Survey and those determined by the Coast and Geodetic Survey for inland mapping are referred to mean sea level, which is the level that the sea would assume if the influence of winds, tides, and currents were eliminated. This level is not the elevation determined from the mean of the highest and lowest tides, nor is it the half sum of the mean of all the high tides and the mean of all the low tides, which is called the half-tide level. Mean sea level is the average height of the water, all stages of the tide being considered. It is determined from observations made by means of tidal gages placed at stations where local conditions, such as those due to long, narrow bays, rivers, and like features, will not affect the height of the water. To obtain even approximately correct results these observations must extend over at least one lunar month, and if accuracy is desired they must extend over several years. At stations on the open coast the halftide level and the mean sea level usually differ but little. sumed that there is no difference between the mean sea levels determined from observations made in the Atlantic Ocean, the Gulf of Mexico, and the Pacific Ocean.3

Location of the area.—The Panhandle, as the term is used in this bulletin and as the subject of part 2 of the bulletin, is that section of the State lying north of latitude 32° and between longitudes 100° and 103°. (See fig. 3.)

Index map.—The accompanying index map of the Panhandle (fig. 4) shows the relative position of the quadrangle areas in which leveling has been done. They are of two sizes—15-minute and 30-minute quadrangles. Each 15-minute quadrangle measures 15 minutes in latitude by 15 minutes in longitude. Each 30-minute quadrangle measures 30 minutes in latitude by 30 minutes in longitude and is equal in area to four 15-minute quadrangles.

³ See Jones, E. L., Hypsometry—Use of mean sea level as the datum for elevations: U. S. Coast and Geodetic Survey Special Pub. 41, 1917; Manual of tide observations: U. S. Coast and Geodetic Survey Special Pub. 196, 1935.

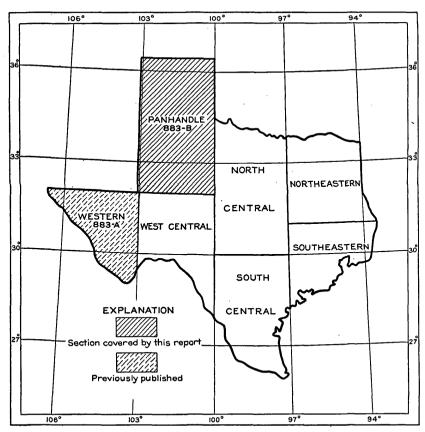


FIGURE 3.—Outline map of Texas showing the names and relative position of the seven sections covered by the parts of Bulletin 883 on spirit leveling in the State.

Maps of quadrangles in the Panhandle for which surveys have been completed may be purchased at 10 cents each retail or 6 cents whole-sale, in lots of 50 or more. Prepayment is required and may be made by money order, payable to the Director of the Geological Survey, or in cash—the exact amount, at sender's risk. Postage stamps should not be sent. These maps are of nearly uniform size regardless of the size of the areas they represent, because they are drawn on different scales. For some of the 15-minute quadrangles that appear on the index map there are as yet no corresponding maps, but these areas are included in 30-minute quadrangles, for some of which maps may be purchased.

Cooperation.—The State of Texas, through the University of Texas Mineral Survey in 1902 and 1903 and the State Reclamation Service in 1909, 1910, and 1923–27, contributed financially to the work of mapping and leveling this section of the State.

O K L A H O M A

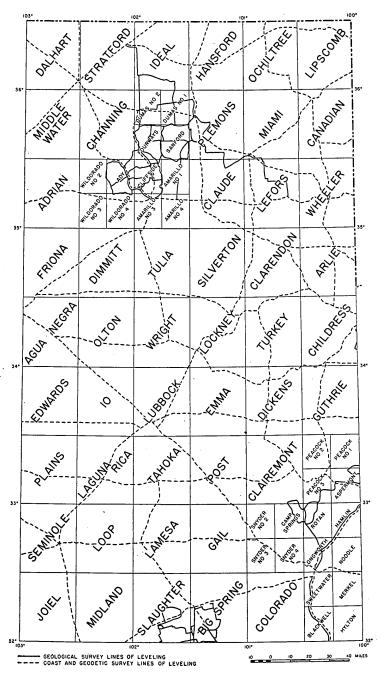


FIGURE 4.—Index map of the Panhandle showing the quadrangles into which this section of the State has been divided and the routes of leveling.

Personnel.—The leveling of the Geological Survey in the Panhandle was done under the supervision of the several chief geographers or chief topographic engineers who were in administrative charge of the topographic branch during the years when the lines were run. The name of the levelman who ran a particular line and the date when it was run immediately follow the designation of the route of that line and form part of the heading that precedes the description of bench marks. The adjustment of the third-order level net and the revision, correlation, and compilation of the descriptions and elevations of bench marks, as well as the assembling of the lists, were done by R. G. Clinite, associate geodetic engineer, under the supervision of R. M. Wilson, chief of the section of computing, under the general direction of J. G. Staack, chief topographic engineer.

DESCRIPTIONS OF BENCH MARKS

ADY QUADRANGLE

[Latitude 35°15′-35°30′; longitude 102°00′-102°15′]

OLDHAM AND POTTER COUNTIES

From Cliffside quadrangle southwest and northwest along Fort Worth & Denver City Railway to point near Boden station, thence northeast across country and back into Cliffside quadrangle at point near Canadian River (by J. M. Lawson in 1928; a portion of this line was releveled by S. R. Archer in 1933)

Gentry, 1.2 mi. SW. of, 0.3 mi. SW. of milepost 348, 4 ft. N. of track, at trestle over branch of West Amarillo Creek, on top of NW. corner	Feet	
of W. concrete abutment; chiseled square	3, 435.	32
Gentry, 2.2 mi. SW. of, 930 ft. W. of milepost 349, 35 ft. S. of track,		
opposite "W" signal, in line with row of telegraph poles, on top of		
section of rail set vertically; chiseled cross	3, 467.	16
Gentry, 2.6 mi. SW. of, 2.3 mi. SE. of Fitz siding, on line between secs.		
122 and 151, block 9, Beaty, Seale, & Forwood survey, 40 ft. S. of		
track, in line with fence S., in concrete post; standard tablet		
stamped "7 L 1928 Texas" and "T T Sta No 7 L 1928" (recovered		
in 1933; also recovered by U. S. C. & G. S. in 1933)	3, 459.	931
Reference mark, 60 ft. S. of tablet, 100 ft. S. of track, 200 ft. SE. of		
milepost 350, at corner post of T-fence S., at 3-in. gas pipe filled		
with concrete; top of rim (recovered in 1933)	3, 463.	44
U. S. C. & G. S. standard disk stamped "X 236 1933" 5	3, 413.	205
Fitz siding, 1.4 mi. SE. of, 0.5 mi. NW. of milepost 350, 15 ft. W. of		
track, at R. R. culvert across high embankment, on N. end of W.		
stone head wall; chiseled square (recovered in 1933)	3, 413.	22
Fitz siding, 0.8 mi. SE. of, 0.2 mi. NW. of milepost 351, 130 ft. S. of	•	
R. R. iron post marked "S," 14 ft. W. of track, on top of N. end of		
W. concrete head wall of R. R. culvert; chiseled square (recovered		
· · · · · · · · · · · · · · · · · · ·	3, 388.	74

⁴ The figures of elevation given are preliminary figures based on the 1929 general adjustment; additional leveling may necessitate further adjustment.

⁵ The tie between this mark and the bench mark stamped "T T Sta No 7 L 1928" was made in 1933.

Fitz siding, opposite and 50 ft. W. of "Fitz" sign, 520 ft. S. of milepost 352, 33 ft. W. of main track, 6 ft. N. of telegraph pole, in line with		
row of poles, in concrete post; standard tablet stamped "8 L 1928		
Texas" and "T T Sta No 12 L 1928" (recovered in 1933; also recov-	Feet	_
ered by U. S. C. & G. S. in 1933)	3, 358. 83	þ
U. S. C. & G. S. standard disk stamped "W 236 1933"	o, ooo. uo	U
point of switch for siding, 10 ft. S. and 7 ft. E. from center of trestle,		!
on top of E. end of S. concrete abutment; chiseled square	3, 336. 18	
Fitz siding, 1.4 mi. NW. of, 0.3 mi. N. of milepost 353, on line between	•, ••••	•
secs. 7 and 10, block 6, Beaty, Seale, & Forwood survey, 100 ft. E. of		
track, at edge of right-of-way fence, at 3-in. gas pipe filled with con-		
crete; top of rim	3, 310. 50	:
Fitz siding, 2.0 mi. NW. of, 3.9 mi. SE. of Boden sta., 0.5 mi. S. of		
trestle over Tecovas Creek, 450 ft. S. of milepost 354, 500 ft. N. of		
R. R. curve, 35 ft. W. of track, in line with row of telegraph poles, in		
concrete post; standard tablet stamped "9 L 1928 Texas" and "T T Sta No 13 L 1928" (recovered in 1933; also recovered by U. S. C.		
& G. S. in 1933)	3, 297, 26	4
Reference mark, 790 ft. N. of tablet, 340 ft. N. of milepost 354, at	0,	_
small trestle, on top of E. corner of S. concrete abutment; chiseled		
square (recovered in 1933)	3, 293. 85	
Boden, 3.4 mi. SE. of, 0.4 mi. N. of milepost 354, at 300-ft. steel trestle		
over Tecovas Creek, on top of E. end of N. concrete abutment;		
chiseled square (recovered in 1933)	3, 290. 63	
Boden, 2.6 mi. SE. of, 0.2 mi. NW. of milepost 355, 350 ft. S. of point	3, 291. 41	1
of switch to siding for stone crusher at N. edge of cut, 8 ft. E. of		
track; top of section of rail set vertically (recovered in 1933)	3, 310, 46	
Boden, 1.9 mi. SE. of, on line between secs. 5 and 12, block JAD,	0, 010, 10	
Beaty, Seale, & Forwood survey, 400 ft. N. of "W" signal, opposite		
milepost 356, 100 ft. N. of point where R. R. right-of-way fence		
angles from 100 ft. to 50 ft., 65 ft. E. of track, in concrete post;		
standard tablet stamped "10 L 1928 Texas" and "T T Sta No 25 L	0 000 05	_
1928" (recovered in 1933)	3, 280. 07	Z
on top of N. end of W. head wall of culvert; chiseled square 8	3 251, 50	
Boden, 0.6 mi. SE. of, 20 ft. S. and 15 ft. E. from center of trestle at	0, 201, 00	
milepost 357.40, 12 ft. E. of track, 4 ft. below top of rail, on top of		
E. end of S. concrete abutment; chiseled square 8	3, 247. 00	
Boden, 0.4 mi. SE. of, on line between secs. 3, 4, 5, and 6, block 21 W,		
E. L. & R. R. R. R. Co. survey, 100 ft. E. of track, at R. R. right-		
of-way fence, at 3-in. gas pipe filled with concrete, on top of rim;	0.051.05	
chiseled bar (recovered in 1933)	3, 251. 07	
Boden, 1.1 mi. across country SE. of, 1.0 mi. E. of track, 4 ft. N. of cor. secs. 5, 6, 11, and 12, block 21 W, E. L. & R. R. R. R. Co.		
survey, 40 ft. S. of rd. winding across prairie, in concrete post;		
standard tablet stamped "11 L 1928 Texas" and "T T Sta No 26 L	. •	
1928"	3, 241. 104	£

 $^{^6}$ The tie between this mark and the bench mark stamped "T T Sta No 12 L 1928" was made in 1933.

⁷ The tie between this mark and the bench mark with elevation 3,290.63 feet was made in 1933.

⁸ In 1933 it was reported that this bench mark had been destroyed.

Boden, 1.2 mi. E. and 0.6 mi. N. from, 2 ft. W. of N. cor. secs. 6 and 11, block 21 W, E. L. & R. R. R. R. Co. survey, at top of mesa,		
300 ft. N. of edge, on top of section of rail set vertically; chiseled		07
Gunter & Munson survey, block G & M 5, 2 ft. N. of cor. secs. 47, 50,		
and 51, on top of section of rail set vertically; chiseled cross Gunter & Munson survey, block G & M 5, 0.2 mi. S. of cor. secs. 47,		58
49, and 51, 0.5 mi. S. of edge of bluff; top of rock		92
Gunter & Munson survey, block G & M 5, 2 ft. N. of rock set in		
place at cor. secs. 47, 49, and 51, directly S. of sharp angle to NE. in Canadian River, on top of bluff, in concrete post; standard tablet		
stamped "12 L 1928 Texas" and "T T Sta No 28 L 1928"	3, 303. 8	
Reference mark, at rock marking section corner; top of rock Gunter & Munson survey, block G & M 5, near W. cor. secs. 46 and		15
50, in river valley, 8 ft. S. and 12 ft. W. from sharp angle in rd. to		
N. and W., 40 ft. E. of S. end of washout at edge of rd., on top of section of rail set vertically; chiseled cross		76
Gunter & Munson survey, block G & M 5, about 0.2 mi. W. of N.	5, 200. 7	10
cor. secs. 44 and 46, 80 ft. W. of edge of top of bluff on W. side of		
mouth of Tecovas Creek, 140 ft. S. of edge of bluff over Canadian River, at slight angle in EW. fence line, in concrete post; standard	-	
tablet stamped "13 L 1928 Texas" and "T T Sta No 29 L 1928"	3, 174. 6	579
Reference mark, 10 ft. NW. of tablet, 3 ft. N. of EW. fence, on rock; chiseled square	3, 174. 2	27
Mouth of Tecovas Creek, 0.5 mi. E. of W. bank of, 1,500 ft. S. of	0,	•
river, at head of ravine about 900 ft. long, 3 ft. S. of edge of bluff, 10 ft. SW. of lone tree on top of edge of bluff, on top of large rock		
shelf; chiseled square	3, 178. 7	70
From Cliffside quadrangle generally west along road to point on Fort Worth & Denver City Railway 2.6 miles southeast of Boden (by J. M. Lawson in 1928)		
Fuqua ranch house, about 6 mi. SW. of, 2.6 mi. SE., thence 2.2 mi. E. from Boden, 1,900 ft. E. of stone and T-fence N. at W. cor. secs. 25 and 26, block 6, Beaty, Seale, & Forwood survey, 700 ft.	•	
along EW. fence line W. of Horse Creek, in concrete post; standard	2 260 4	95
tablet stamped "31 L 1928 Texas" and "T T Sta No 14 L 1928" Boden, 2.6 mi. SE., thence 1.8 mi. E. from, 80 ft. W. of stone marking	0, 505. 4	:20
E. cor. secs. 25 and 26, block 6, Beaty, Seale, & Forwood survey,		
50 ft. W. of corner fence post, 65 ft. E. of cattle guard gate across main rd., on top of rail set vertically; chiseled cross		8
Boden, 2.6 mi. SE., thence 0.8 mi. E. from, about 700 ft. E. of stone		
at probable cor. secs. 3, 4, 5, and 6, block JAD, Beaty, Seale, & Forwood survey, about 1,000 ft. E. of Tecovas Creek, 4 ft. E. of		
corner post of fence E. and angling fence NW., on top of rail set		
vertically; chiseled cross	3, 276. 2	22
From point 2.6 miles southwest of Gentry on Fort Worth & Denver City Railway south and west across country and along roads to Gray ranch, thence northwest along road about 10 miles into Wildorado No. 2 quadrangle (by S. R. Archer in 1933)		
Gentry, 2.6 mi. SW., thence 1.2 mi. S. from, 0.35 mi. N. of cor. secs.		
123, 124, 149, and 150, block 9, Beaty, Seale, & Forwood survey, on S. side of Tascosa Highway at crossing of ranch rd., 3 ft. W. of corner post of T-fence S., under fence, set flush with ground; top		
of iron rod	3, 496. 6	5

Gentry, 2.6 mi. SW., thence 1.6 mi. S. from, 5.0 mi. N. and 2.0 mi. E. from Bushland, 36 ft. N. and 6 ft. W. from rock marking cor. secs. 123, 124, 149, and 150, block 9, Beaty, Seale, & Forwood survey, 6 ft. N. of corner post of fence lines N. and W., in concrete post; standard tablet stamped "T T Sta No 8 L 1928 3515"	3, 514. 690
[Line jogs into Wildorado No. 4 quadrangle]	
Bushland, 4.0 mi. N. of, about 10 ft. S. and 43 ft. E. from cor. secs. 158, 159, 182, and 183, block 9, Beaty, Seale, & Forwood survey, 400 ft. S. of T-rd. E., 600 ft. SW. of Campbell ranch house, 43 ft. E. of NS. highway, in NE. corner of T-fence E., in concrete post; standard tablet stamped "T T 18 L 1933 3662" (recovered by	
U. S. C. & G. S. in 1935)	3, 661. 787
Bushland, 5.0 mi. N. and 0.4 mi. W. from, about 275 ft. E. of quarter corner between secs. 183 and 184, block 9, Beaty, Seale, & Forwood survey, 55 ft. N. and 275 ft. E. from corner of T-fence S., 55 ft. N. of EW. section-line fence, on W. bank of creek, at S. side of grove of cottonwood trees, in root on SW. side of tree with triple-forked top; copper nail and washer	3, 555. 08 3, 533. 47
rod	3, 611. 80
[Line jogs into Wildorado No. 4 quadrangle]	
Bushland, 4.0 mi. N. and 3.0 mi. W. from, 0.6 mi. SW. of Fryingpan ranch house, at N. cor. secs. 1 and 2, G., C. & S. F. Ry. Co. survey, and S. cor. secs. 1 and 2, block Z 6, John Gibson survey, 1 ft. S. of corner of fences E. and S., in fence line S., set flush with ground; top of iron rod. Bushland, 4.3 mi. N. and 4.0 mi. W. from, 1.6 mi. by rd. W. of Fryingpan ranch house, 0.3 mi. N. of SW. cor. sec. 2, block Z 6, John Gibson survey, and SE. cor. sec. 38, block M 19, Gunter & Munson survey, at point where rd. crosses NS. section line, on N. side of rd., in old fence line, set flush with ground; top of iron rod Bushland, 4.8 mi. N. and 4.6 mi. W. from, 2.5 mi. by rd. NW. of Fryingpan ranch house, 0.9 mi. NW. along rd. from point where rd. crosses E. line of sec. 38, block M 19, Gunter & Munson survey, about 350 ft. SE. of angle to N. in rd., on E. side of rd., set flush with ground and surrounded by stones; top of iron rod	3, 676. 91

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Bushland, 4.0 mi. N. and 5.0 mi. W. from, at probable cor. secs. 38, 39,	
and 40, block M 19, Gunter & Munson survey, and SE. cor. sec. 2,	
H. & G. N. R. R. block, 17 ft. E. of T-fence N., 27 ft. W. of corner	
of fences S. and W., 2 ft. N. of fence line, in concrete post; standard	Feet
tablet stamped "T T 20 L 1933 3718"	
Bushland, 4.0 mi. N. and 6.0 mi. W. from, 1.2 mi. E. of Gray ranch	
house, at N. cor. secs. 40 and 41, block M 19, Gunter & Munson	
survey, and S. cor. secs. 1 and 2, H. & G. N. R. R. block, at Old-	
ham-Potter county line, 2 ft. E. of corner post of fences E. and S.,	
under fence line, set flush with ground; top of iron rod	3, 738. 32
Gray ranch house, 29 ft. W. of NW. corner of barn at, 3.0 mi. N. of	
Wildorado, about 200 ft. W. of old Wildorado-Tascosa rd., on N.	
side of EW. fence, in concrete post; standard tablet stamped	
"T T 21 L 1933 3747" (recovered by U. S. C. & G. S. in 1935)	3, 746.692
Gray ranch house, 1.2 mi. along old Wildorado-Tascosa rd. NW. of,	
at line between secs. 43 and 44, block M 19, Gunter & Munson sur-	
vey, on W. side of gate in EW. fence line, 1 ft. W. of W. gatepost,	
under fence, flush with ground; top of iron rod	3, 709. 16
Gray ranch house, 2.3 mi. NW. of, at rd. crossing line between sec. 44,	•
block M 19, Gunter & Munson survey, and sec. 2, block S, G. C. &	
S. F. Ry. Co. survey, 18 in. E. of E. post of gate in EW. fence line,	•
under fence, set flush with ground; top of iron rod (recovered by	
U. S. C. & G. S. in 1935)	3, 609. 553
Gray ranch house, 3.8 mi. NW. of, in sec. 6, block S, G. C. & S. F.	•
Ry. Co. survey, 30 ft. E. of rd., under windmill derrick, in feeding	
lot, 3 ft. SW. of well casing, in concrete post; standard tablet	
stamped "T T 22 L 1933" (recovered by U. S. C. & G. S. in 1935)	3, 558. 366
Gray ranch house, 5.0 mi. NW. of, on S. side of Goodman Creek, 725	
ft. S. of point in creek where there are two cottonwood trees on S.	
bank, 12 ft. E. of fork of old and new rds., set flush with ground and	
surrounded by rocks; top of iron rod	3, 531. 52
Gray ranch house, 5.7 mi. NW. of, 1 ft. S. and 35 ft. E. from gate in	
EW. fence on line between secs. 12 and 13, block S, G. C. & S. F.	
Ry. Co. survey, and line between Gray and L S ranches, in con-	
crete post; standard tablet stamped "T T 23 L 1933" (recovered by	
U. S. C. & G. S. in 1935)	3, 549. 835
Gray ranch house, 6.6 mi. NW. of, at point where rd. crosses spur	
ridge between forks of drain NE. (clump of cottonwood trees in	
drain to SE.), at top of ridge, on W. side of rd., set flush with	
ground and surrounded by rocks; top of iron rod (recovered by	
U. S. C. & G. S. in 1935)	3, 502. 900
Gray ranch house, 7.5 mi. NW. of, 0.7 mi. SE. of new (upper) ford	
across Sierrita de la Cruz Creek, 200 ft. N. of point where rd.	
crosses small drain (point is W.15°S. of low detached hill E. of	
rd.), on W. side of rd., set flush with ground and surrounded by	
rocks; top of iron rod	3, 467. 94
Gray ranch house, 8.2 mi. NW. of, at upper ford of Sierrita de la	
Cruz Creek, on W. bank of creek, SW. of rd., at point on bank	
where rd. leaves creek bed, 1 ft. S. of 1½-in. iron pipe driven in	
ground, set flush with ground and surrounded by rocks; top of iron	
rod (recovered by U. S. C. & G. S. in 1935)	3, 406. 532

Gray ranch house, 8.7 mi. NW. of, 200 ft. W. of rd., on N. side of and at head of small drain, 10 ft. N. and 15 ft. E. from NE. corner of stone shed, in concrete post; standard tablet stamped "T T 24 L		
Gray ranch house, 10.0 mi. NW. of, 2.0 mi. SE. of Cottonwood Camp, 0.9 mi. S. of EW. fence line crossing, at angle in rd., on E. side of rd., on S. side of clump of mesquite bushes, set flush with ground and surrounded by rocks; top of iron rod		
From Wildorado No. 2 quadrangle at point about 2.1 miles southwest of L S ranch northeast along road to Fort Worth & Denver City Railway, thence east and southeast to point 1.9 miles southeast of Boden (by S. R. Archer in 1933)		
L S ranch headquarters, 1.0 mi. SW. of, at foot of bluff, on N. side of junction of rds. NW. to Tascosa and NE. to L S ranch headquarters, between rds., 18 in. SE. of signpost, set flush with ground and sur-		
rounded by rocks; top of iron rod. L S ranch headquarters, 200 ft. N. of dwelling, at EW. fence line crossing, on W. side of rd., 1 ft. W. of W. tall brace post of gate, in	•	
fence line, set flush with ground; top of iron rod	3, 178.	89
28 L 1933"	3, 171.	996
rounded by rocks; top of iron rod	3, 172.	44
of iron rod	3, 161.	28
vert 367.99; chiseled squareAdy, 2.1 mi. NW. of, on fence line between R. R. and highway, on Oldham-Potter county line, in concrete post; bronze tablet stamped	•	
"Oldham-Potter County 1930"		
gravel pit; top of section of rail set vertically	3, 167.	58
1933" (recovered by U. S. C. & G. S. in same year) Ady, 0.2 mi. SE. of, at concrete bridge 364.79, on top of SE. end of SW. head wall; chiseled square		
Ady, 0.8 mi. SE. of, at concrete R. R. culvert 364.22, on top of NW. end of NE. head wall; chiseled square	3, 171.	
of SW. parapet; chiseled square		
rocks; top of iron rod	ა , 140.	UĐ

Ady, 2.8 mi. SE. of, on top of NW. bent at NW. end of trestle 362.23 over Sierrita de la Cruz Creek, in top of NE. end of 12- by 12-in. sleeper; copper nail and washer	Feet 3, 112. 86	
G. S. in same year) Boden, 3.1 mi. NW. of, 140 ft. NW. of milepost 361, at concrete bridge	3, 154. 390	0
361.06, on top of SE. end of NE. head wall; chiseled squareBoden, 2.7 mi. NW. of, at bridge 360.66, on top of NE. parapet of SE.	3, 154. 72	
concrete abutment; chiseled square	3, 155. 07	
square	3, 176. 02	
Boden, 1.2 mi. N. of, opposite and 7 ft. N. of telegraph pole with mile number 359 nailed to it, at E. right-of-way fence line, set flush with	0.004.05	
ground and surrounded by rocks; top of iron rod	3, 224. 67	
3243" (recovered by U. S. C. & G. S. in same year) Boden, 0.4 mi. SE. of, on line between secs. 3, 4, 5, and 6, E. L. & R. R. R. Co. block, 100 ft. E. of track, at right-of-way fence, on	·	
rim of 3-in. gas pipe filled with concrete; chiseled bar Boden, 1.5 mi. SE. of, 0.6 mi. N. of milepost 356, 15 ft. W. of center line of track, on top of N. end of W. head wall of concrete R. R.		
culvert; chiseled square	3, 253. 34	
From point on Fort Worth & Denver City Railway 2.8 miles southeast of Ady north- east along roads about 4.4 miles by way of Bivins River Camp into Channing No. 4 quadrangle (by F. J. Fricke in 1933; releveled by C. S. Carney in 1934)		
Bivins River Camp, 1.0 mi. SW. of house at, in NW. part of sec. 54, block 5, Gunter & Munson survey, on S. bank of Canadian River, 100 ft. E. of mouth of Sierrita de la Cruz Creek, 40 ft. SE. of double-forked cottonwood tree, in root 6 in under ground on NW. side of		
6-in. cottonwood tree with triangular blaze directly above point; copper nail and washer	3, 098. 08	
Bivins River Camp, 23 ft. S. and 28 ft. W. from house at, in sec. 98, block 47, H. & T. C. R. R. Co. survey, about 1,000 ft. NE. of mouth of Corral Creek, in concrete post; standard tablet stamped "T T 5 D 1933"	3 120 77	9
Bivins River Camp, 1.0 mi. along rd. to Bivins ranch headquarters NE. of, 30 ft. E. of point between old and new rds., 270 ft. N. of point where rds. separate, set flush with ground and surrounded by	·	
rocks; top of iron rod	3, 158. 17	
iron rod	3, 247. 89	ŀ

From point 1.9 miles southeast of Boden station on Fort Worth & Denver City Railway southeast 0.7 mile, thence generally west and southwest across country and

along roads to point 5.7 miles northwest of Gray ranch (by C. S. Carney in 1933 and 1934; leveled twice beyond Tascosa Highway) Boden, 2.6 mi. SE. along R. R., thence 1.2 mi. W. along fence line from, 150 ft. E. of %-in. iron pipe driven in ground, set in concrete; top of steel rod_______ 3, 409. 51 Boden, 2.6 mi. SE., thence 2.3 mi. W. from, 1.6 mi. S. and 0.5 mi. E. from Vanetti ranch, 30 ft. W. of %-in. iron pipe driven in ground, in E.-W. fence line, in line with T-fence N., 5 ft. E. of S. end of wire gate, set in concrete; top of steel rod______ 3, 453, 09 Boden, 2.6 mi. SE., thence 3.1 mi. W. from, 1.6 mi. S. and 0.3 mi. W. from Vanetti ranch, on W. side of Tascosa Highway, 170 ft. S. of T-fence W., in concrete post; standard tablet stamped "T T 6 D Reference mark, 170 ft. E. of tablet, 47.5 ft. E. of center line of rd., 2.5 ft. W. of fence along E. side of graded rd., in line with T-fences E. and W., set in concrete; top of steel rod_____ Boden, 2.6 mi. SE., thence 4.2 mi. W. from, in E.-W. fence line, set in Boden, 2.6 mi. SE., thence 5.4 mi. W. from, 9.2 mi. by rd. NE. of Gray ranch house, 450 ft. W. of iron pipe at W. cor. secs. 11 and 12, block 20 F, E. L. & R. R. R. R. Co. survey, 2 ft. S. and 94 ft. W. from gate across rds., in concrete post; standard tablet stamped "T T 7 D 1933 3518"..... 3, 517. 792 Reference mark, 390 ft. E. of tablet, on top of ridge, 275 ft. E. of gate, 60 ft. W. of \(\frac{4}{2}\)-in. iron pipe driven in ground, in E.-W. fence line, Gray ranch house, 8.0 mi. NE. of, 30 ft. E. of center of dim crossroads, 5 ft. W. of large mesquite tree, set in concrete; top of steel rod____ 3, 544. 43 Gray ranch house, 6.8 mi. NE. of, 22 ft. E. of N.-S. fence line, about Oldham-Potter county line; top of milepost marked "Oldham-Potter 18.8674 1930"_____ 3, 409. 29 Oldham-Potter county line, 0.5 mi. NW. of, in floor of W. fork of canyon, in root of lone mesquite tree; copper nail and washer____ 3, 298. 66 Oldham-Potter county line, 1.8 mi. NW. of, 7.1 mi. in air line N. of Gray ranch house, in saddle of W. wall of canyon, in root of lone mesquite tree; copper nail and washer_______3, 353, 66 Gray ranch house, 5.7 mi. by rd. NW., thence 2.8 mi. NE. from, 5.5 mi. SE. of Cottonwood Camp, 2.4 mi. E. of old Wildorado-Tascosa rd., along dim rd. on ridge between Wildorado and Sierrita de la Cruz Creeks, due E. of lone mesa in valley, 10 ft. N. and 6 ft. W. from dim rd. fork; standard tablet stamped "T T 33 L 1933" ____ 3, 462, 401 Reference mark, 230 ft. SW. of tablet, 10 ft. NW. of center line of rd., Gray ranch house, 5.7 mi. NW., thence 1.9 mi. NE. from, 160 ft. E. of curve in rd., at edge of cliff wall of canyon, in large juniper tree; copper nail and washer______3, 474. 18 Gray ranch house, 5.7 mi. NW., thence 1.1 mi. NE. from, 105 ft. E. of rd., at head of drain, in root of large mesquite tree; copper nail and washer______3, 511. 24

AMARILLO NO. 1 QUADRANGLE 10

[Latitude 35°15′-35°30′; longitude 101°30′-101°45′]

CARSON AND POTTER COUNTIES

From Sanford quadrangle generally south across country and along roads by way of St. Francis into Amarillo No. 4 quadrangle (by Tom Carney in 1926)

way of St. Francis into Amarillo No. 4 quadrangle (by Tom Carney in 1926)			
St. Francis, 15.6 mi. N. of Panhandle & Santa Fe Ry. crossing at, 300)		
ft. E. of SW. cor. sec. 32, block Y 2, H. & T. C. R. R. Co. survey.		Feet	
2 ft. N. of fence; iron hub			
St. Francis, 14.4 mi. N. of, about 0.5 mi. W. of St. Francis-Pantex			
rd., in SW. cor. sec. 1, block Y 2, H. & T. C. R. R. Co. survey, in			
concrete post; standard tablet stamped "TC 44 1926"		507	157
Reference mark, 180 ft. N. of tablet, in fence line; iron hub.			
St. Francis, 13.4 mi. N. of, about 0.5 mi. W. of rd., in SW. cor. sec.		••••	-
10, block T, Beaty, Seale, & Forwood survey; iron hub		488	63
St. Francis, 12.4 mi. N. of, in SW. cor. sec. 11, block T, Beaty, Seale,		100.	OU
& Forwood survey, in concrete post; standard tablet stamped "TC			
45 1926"		502	720
Reference mark, 80 ft. N. of tablet, in fence line; iron hub			
		±90.	19
St. Francis, 11.4 mi. N. of, 30 ft. W. of center line of St. Francis-		700	40
Pantex rd., in NE. corner of field fence; iron hub		ეგ კ.	48
St. Francis, 10.3 mi. N. of, 30 ft. W. of center line of rd., at junction			
of T-rd. E. to Panhandle, in NE. corner of pasture fence, in concrete	_		
post; standard tablet stamped "TC 46 1926"			
Reference mark, 630 ft. N. of tablet, in fence line; iron hub	3, 8	573.	75
St. Francis, 9.3 mi. N. of, at N. side sec. 50, block T, Beaty, Seale, &			
Forwood survey, 30 ft. W. of center line of rd., in NE. corner of			
pasture fence; iron hub	3, 5	554.	33
St. Francis, 8.4 mi. N. of, 35 ft. W. of center line of rd., in NE. corner			
of pasture, in concrete post; standard tablet stamped "TC 47			
1926"			
Reference mark, 180 ft. N. of tablet, in fence line; iron hub	3, 5	5 72 .	35
St. Francis, 7.3 mi. N. of, 35 ft. W. of center line of rd., in NE. corner			
of pasture fence; iron hub	3, 5	590.	13
St. Francis, 6.3 mi. N. of, at junction of rd. to Panhandle, in SE.			
corner of field, in concrete post; standard tablet stamped "TC 48			
1926" (recovered by U. S. C. & G. S. in 1935)			
Reference mark, 240 ft. N. of tablet, in fence line; iron hub	3, 5	595.	28
St. Francis, 5.0 mi. N. of, 35 ft. W. of center line of rd., in NE. corner			
of field; iron hub	3, 5	575.	30
St. Francis, 4.0 mi. N. of, 45 ft. W. of center line of rd., at jog, in NE.			
corner of pasture, in concrete post; standard tablet stamped "TC			
49 1926''			
Reference mark, 240 ft. N. of tablet, in fence line; iron hub	3, 5	576.	50
St. Francis, 3.0 mi. N. of, 30 ft. W. of center line of rd., in NE. corner			
of field; iron hub	3, 5	663.	17
St. Francis, 2.0 mi. N. of, 30 ft. W. of center line of rd., in SE. corner			
of field, in concrete post; standard tablet stamped "TC 50 1926"	3, 5	514.	966
Reference mark, 160 ft. N. of tablet, in fence line; iron hub			
St. Francis, 1.0 mi. N. of, 45 ft. W. of center line of rd., in NE. corner			
of field fence, near W. gatepost; iron hub	3, 5	641.	16
	, -		

 $^{^{10}}$ The figures of elevation given are preliminary figures based on the 1929 general adjustment; additional leveling may necessitate further adjustment.

St. Francis, about 0.2 mi. N. of Panhandle & Santa Fe Ry. crossing at, 35 ft. W. of center line of rd., 60 ft. S. of telephone line, in NE. corner of field, in concrete post; standard tablet stamped "TC 51 1926"	j	Feet 26.	039
Reference mark, 120 ft. N. of tablet, in SE. corner of field fence across EW. lane; iron hub			
Northeast, north, and west along Chicago, Rock Island & Gulf Railway, along road, and across country (by C. S. Carney in 1933)			
[A jog from Cliffside quadrangle]			
Amarillo, 6.3 mi. along R. R. NE. of, opposite S. end of Mayer siding, 500 ft. S. of intersection of State Highway 136 and NS. rd., 145 ft. N. and 36 ft. E. from intersection of rd. and R. R., in concrete post; standard tablet stamped "T T 2 L 1933 3631" (recovered by U. S. C. & G. S. in 1935) Reference mark, 660 ft. N. of tablet, 175 ft. N. of center of rd. and	3, 6	30.	901
highway intersection, 20 ft. W. of rd., on top of W. end of concrete culvert; chiseled square	3, 6	34.	56
from, 18 ft. E. of center line of rd., on top of S. end of concrete culvert; chiseled squareAmarillo, 6.3 mi. NE., thence 2.0 mi. N. from, 15 ft. E. of center line	3, 6	18. ′	73
Amarillo, 6.3 mi. NE., thence 2.2 mi. N. from, 4.7 mi. by rd. SW., thence 3.2 mi. E. from Bivins ranch house, at N. end of graded rd., at cor. secs. 67, 68, 97, and 98, block 2, Adams, Beaty, & Moulton survey, in SE. angle of T-fence S. along W. side of rd., in concrete post; standard tablet stamped "T T 3 L 1933 3554"			
Along road south of Bivins ranch (by C. S. Carney in 1933)			
[A jog from Cliffside quadrangle]			
Bivins ranch house, 1.1 mi. S. of, 4.7 mi. E. and 9.0 mi. N. from Amarillo, near quarter corner between secs. 17 and 32, block 1, Beaty, Seale & Forwood survey, 18 ft. E. of cattle guard in fence, in concrete post; standard tablet stamped "T T 5 L 1933 3530"	3, 52	29. 8	383
. Along roads northeast and northwest about 3 miles north of Bivins ranch (by C. S. Carney in 1933)			
[A jog from Cliffside quadrangle]			
Bivins ranch house, 3.0 mi. N. of, about 720 ft. N. and 300 ft. E. from quarter corner between secs. 2 and 58, block 2, Adams, Beaty, & Moulton survey, and block 1, Beaty, Seale, & Forwood survey, along rd. to LX ranch, on E. side of rd., at junction of rd. W., in concrete post; standard tablet stamped "T T 8 L 1933 3457" Reference mark, 54 ft. W. of tablet, 27 ft. W. of center line of rd., set in concrete; top of steel rod			
From Sanford quadrangle at point 3 miles west of Carson-Potter county line generally east along roads and across country near north border of quadrangle to point near northeast corner, thence north and back into Sanford quadrangle (by C. S. Carney in 1933-34)			
Gunter & Munson survey, block 22, near S. line sec. 9, 780 ft. W. of windmill, 50 ft. SE. of wye of rd. fork, in concrete post; standard tablet stamped "T T 47 L 1933 3413"	3, 41	2. 8	38

Reference mark, 720 ft. SE. of tablet, 230 ft. S. of windmill, 15 ft. N.	Fee	
of rd., set in concrete; top of steel rod Gunter & Munson survey, block 22, in NW1/4 sec. 11, 30 ft. SE. of	3, 419	9. 47
junction of T-rd. S. to windmill, set in concrete; top of steel rod	3, 467	7. 40
Gunter & Munson survey, block 22, near quarter corner between secs.		
2 and 11, 43 ft. NE. of center of crossroads, in telephone line, 18 in.		
SW. of telephone pole, set in concrete; top of steel rod Gunter & Munson survey, block 22, near center of SE½ sec. 2, 1,470	3, 440). 60
ft. N. of highway and fence E. on line between secs. 2 and 28, 21 ft.		
S. and 51 ft. W. from junction of rd. W. through gate, in concrete		
post; standard tablet stamped "T T 48 L 1933 3491"	3, 490	. 829
Reference mark, 75 ft. N. of tablet, in fence line, set in concrete; top		
of steel rod	3, 489	9. 33
H. & G. N. R. R. Co. survey, block S, 300 ft. S. of NW. cor. sec. 32, in fence line; top of 1½-in. pipe	2 479	21
	0, 472	. o1
[Line jogs into Sanford quadrangle]		
H. & G. N. R. R. Co. survey, block S, about 850 ft. W. of cor. secs. 17,		
18, 23, and 26, 15 ft. NW. of W. bank of Antelope Creek, 65 ft. E. of		
center line of NS. rd., set in concrete; top of steel rod	3, 320	. 13
Deal, about 6.5 mi. S. of, 3.0 mi. N. and 3.0 mi. W. from Pomeroy, in NW. cor. sec. 13, block S, H. & G. N. R. R. Co. survey, 8 ft. S. and		
2 ft. E. from fence corner, in concrete post; standard tablet stamped		
"T T 21 D 1933 3404"	3, 404	. 120
Reference mark, 152 ft. E. of tablet, in fence line, set in concrete; top		
of steel rod	3, 395	5. 38
top of ridge, 6 in. S. of fence line, set in concrete; top of steel rod	3 404	03
H. & G. N. R. Co. survey, block S, in NE. cor. sec. 8, 14 in. S. of	0, 101	. 00
EW. fence line, set in concrete; top of steel rod (recovered by U. S.		
C. & G. S. in 1935)	3, 3 85	. 810
Deal, about 6.5 mi. S. and 3.5 mi. E. from, 2 ft. S. and 3 ft. W. from		
iron pipe at SW. cor. sec. 34, block 5, I. & G. N. R. R. Co. survey, 2 ft. W. of fence, in concrete post; standard tablet stamped "T T 20 D		
1933 3408"	3. 408	. 223
Reference mark, 122 ft. N. of tablet, in NS. fence line, set in concrete;	-,	
top of steel rod	3 , 405	. 91
AMARILLO NO. 3 QUADRANGLE "		
[Latitude 35°00'-35°15'; longitude 101°45'-102°00']	•	
POTTER AND RANDALL COUNTIES		
At Amarillo (by E. E. Harris in 1927)		
U. S. C. & G. S. standard disk stamped "Y 19 1911"	3, 663	. 775
Amarillo, at Fort Worth & Denver City Ry. sta.; top of rail		
Amarillo, 50 ft. from sta., at sta. platform; SE. corner of curb of plat-		
form	3, 668	. 36

 $^{^{11}}$ The figures of elevation given are preliminary figures based on the 1929 general adjustment; additional leveling may necessitate further adjustment.

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U. S. C. & G. S. standard disk stamped "X 19 1911"	Feet 3, 667. 470
From Amarillo northwest along Fort Worth & Denver City Railway into Cliff- side quadrangle (by J. M. Lawson in 1928; leveled twice)	
Amarillo, on N. side of Fort Worth and Denver City Ry. sta., 62 ft. E. of W. end of sta., at W. entrance, 9 in. N. of E. porch pier, on top of concrete foundation of pier; chiseled square	3, 669. 18
Amarillo, 0.6 mi. NW. of sta., directly under overhead crossing of Chicago, Rock Island & Gulf Ry.; top of NE. rail	3, 636. 81
S. C. & G. S. in 1933) Amarillo, 2.0 mi. NW. of, 50 ft. SW. of track, at right-of-way fence, opposite T-street W., at N. end of first R. R. cut NW. of Amarillo;	3, 622. 735
top of section of rail set vertically	3, 633. 18
R. R. right-of-way; top of section of rail set verticallyAmarillo, 3.2 mi. NW. of, 1,070 ft. SE. of milepost 339, 100 ft. SW. of	3, 613. 69
track, at edge of right-of-way; top of section of rail set vertically	3, 569. 23
in fence at rd., in concrete post; standard tablet stamped "2 L 1928" and "T T Sta No 2 L 1928" (recovered by U. S. C. & G. S. in 1933)Amarillo, 4.6 mi. NW. of, 15 ft. E. of center of trestle over roadway to ranch house of J. E. Hall, on top at NE. corner of SE. concrete abut-	3, 544. 137
ment; chiseled square	3, 499. 75
From Amarillo northeast along Atchison, Topeka & Santa Fe and Chicago, Rock Island & Gulf Railways into Cliffside quadrangle (by C. S. Carney in 1933)	
U. S. C. & G. S. iron pipe with red metal cap designated "W 19" Amarillo, 1.8 mi. NE. of, 23 ft. SE. of center of intersection of U. S. Highway 66 and double track, on top of N. side of concrete base of	3, 655. 852
electric warning signal; chiseled squareAmarillo, 2.7 mi. along Chicago, Rock Island & Gulf Ry. NE. of, 60 ft. N. and 10 ft. W. from crossing of U. S. Highway 66, inside R. R. right-of-way, in concrete post; standard tablet stamped "T T 1 L	3, 655. 77
1933 3645" (recovered by U. S. C. & G. S. in 1935)Amarillo, 3.4 mi. NE. of, at NE. end of wooden underpass, 8.5 ft. SE. of center line of track, 8 in. NE. of NE. head wall, on boulder; chis-	
eled square	3, 643. 32
squareAmarillo, 5.0 mi. NE. of, 100 ft. N. of center of grade crossing, 18 in. N. of right-of-way fence, at W. end of gate, on boulder; chiseled	3, 651. 84
square	3, 647. 29

AMARILLO NO. 4 QUADRANGLE 12

[Latitude 35°00'-35°15'; longitude 101°30'-101°45']

ARMSTRONG, CARSON, POTTER, AND RANDALL COUNTIES

From Amarillo No. 1 quadrangle near St. Francis south along roads to point on Chicago, Rock Island & Gulf Railway 4 miles west of Yarnall (by Tom Carney in 1928)

St. Francis, about 0.8 mi. S. of Santa Fe Ry. crossing at, 30 ft. W. of center line of lane, in NE. corner of pasture; iron hub	_ 3,	Feet 508.	
ture, 30 ft. W. of center line of lane, in concrete post; standar	d		
tablet stamped "TC 52 1926"	_ 3,	513.	733
Reference mark, 200 ft. N. of tablet, in fence line; iron hub	_ 3,	512.	08
St. Francis, about 3 mi. S. of R. R. crossing at, 0.6 mi. N. and 4.0 m	i.		
W. from Yarnall, on S. side of Amarillo-Jericho rd., in line wit	h		
division fence; iron hub	_ 3,	533.	48
U. S. C. & G. S. B. M. designated "S 19"	_ 3,	519.	396

ASPERMONT QUADRANGLE 12

[Latitude 33°00′-33°15′; longitude 100°00′-100°15′]

STONEWALL COUNTY

From Peacock No. 3 quadrangle along Rotan-Asperment road north to Asperment, thence along roads generally east to Old Glory, thence north and east along State Highway 120 into Rule quadrangle (by E. R. Martin in 1924)

Aspermont, at Stonewall County courthouse, in E. side of front, under	
marble cornerstone, 7 in. above bottom of wall; standard tablet	
stamped "M 21 1924"	
Reference mark, on E. side of lower step of courthouse; chiseled cross	,
Asperment, at First National Bank, 6 ft. N. of main entrance, on sill	
of southernmost window on E. side, 2.5 ft. above pavement, 1.5 ft.	
N. of edge of wall, 3 in. from S. edge of sill; small indentation	1, 788. 10
Asperment, at standpipe, on SW. foundation pier, about 3 ft. above	
ground, at SW. edge of top; chiseled cross (recovered by U. S. C. &	1 707 000
G. S. in 1935)	1, 785. 000
Asperment, 0.7 mi. NE. of, on N. edge of high school campus, N. of	
main building, on SW. side of S. entrance of red brick school building, in concrete doorsill, 5 in. above pavement; small indentation.	1 702 60
Asperment, 3.6 mi. E. of, about 250 ft. N. of residence of Fred Dalby,	1, 100. 00
at NE. corner of junction of lane and Aspermont-Old Glory highway,	
in field, in fence corner, in concrete post at ground surface; stand-	
ard tablet stamped "M 22 1924" (recovered by U. S. C. & G. S.	
in 1935)	1, 723, 123
Aspermont, 4.8 mi. E. of, 30 ft. N. of highway, on S. end of E. section	-,
of twin iron culvert under Fort Worth & Denver City Ry.; small	
indentation	1, 708. 86
Aspermont, 5.6 mi. E. of, at steel bridge over Tonk Creek, in N. end of	
W. abutment, 6 in. below top; standard tablet stamped "M 23	
1924"	1, 679. 738
Reference mark, on top of N. end of W. concrete abutment of bridge;	
chiseled cross	1, 680. 25

¹⁹ The figures of elevation given are preliminary figures based on the 1929 general adjustment; additional leveling may necessitate further adjustment.

Aspermont, 8.9 mi. E. of, 2.8 mi. W. of Old Glory, on E. side of E. driveway to old county courthouse (now residence of J. H. Baldwin), in concrete column, 5 in. above ground; standard tablet stamped "M 24 1924" Old Glory, 125 ft. W. of Wichita Valley Ry. sta., on S. side of track, on NE. corner of NE. concrete foundation pier of water tank; standard tablet stamped "M 25 1924" (recovered in 1925; also recovered by U. S. C. & G. S. in 1935)	Feet 1, 715. 379 1, 670. 771
Reference mark, 7.3 ft. S. of tablet, on SE. foundation pier of water tank; chiseled cross	1, 670. 79
let stamped "M 26 1924"	
From Old Glory southeast along Wichita Valley Railway into Rule quadrangle (by E. E. Harris in 1925)	,
Old Glory, 0.8 mi. SE. of, 40 ft. S. of track, on W. side of rd. crossing, on top of 18-in. iron drain pipe; chiseled square	1, 654. 47
•	
From Rule quadrangle at point 2.9 miles north and 0.9 mile west from Sweet Home Church along roads west 3 miles, thence north to point 0.3 mile north of New Hope School, thence southwest and southeast to road junction 4 miles north of Old Glory (by W. R. Broaddus in 1925)	t
Home Church along roads west 3 miles, thence north to point 0.3 mile north of New Hope School, thence southwest and southeast to road junction 4 miles north of Old Glory (by W. R. Broaddus in 1925) Sweet Home Church, 2.9 mi. N. and 1.3 mi. W. from, 0.8 mi. S., thence 2.6 mi. E. from New Hope School, at crossroads, 50 ft. N. of rd. W., in line with rd. S., in bench on N. side of 15-in. mesquite tree; copper	
Home Church along roads west 3 miles, thence north to point 0.3 mile north of New Hope School, thence southwest and southeast to road junction 4 miles north of Old Glory (by W. R. Broaddus in 1925) Sweet Home Church, 2.9 mi. N. and 1.3 mi. W. from, 0.8 mi. S., thence 2.6 mi. E. from New Hope School, at crossroads, 50 ft. N. of rd. W., in line with rd. S., in bench on N. side of 15-in. mesquite tree; copper nail and washer	
Home Church along roads west 3 miles, thence north to point 0.3 mile north of New Hope School, thence southwest and southeast to road junction 4 miles north of Old Glory (by W. R. Broaddus in 1925) Sweet Home Church, 2.9 mi. N. and 1.3 mi. W. from, 0.8 mi. S., thence 2.6 mi. E. from New Hope School, at crossroads, 50 ft. N. of rd. W., in line with rd. S., in bench on N. side of 15-in. mesquite tree; copper nail and washer New Hope School, 0.8 mi. S., thence 1.8 mi. E. from, 25 ft. S. of rd., at junction of detour through pasture, on S. side of gate, on concrete base of corner fence post; chiseled square New Hope School, 0.8 mi. S., thence 1.0 mi. E. from, at jog in rd., 12 ft. N. and 20 ft. W. from rd. corner, on S. side of stone fence post, on	1, 609. 17 1, 623. 09
Home Church along roads west 3 miles, thence north to point 0.3 mile north of New Hope School, thence southwest and southeast to road junction 4 miles north of Old Glory (by W. R. Broaddus in 1925) Sweet Home Church, 2.9 mi. N. and 1.3 mi. W. from, 0.8 mi. S., thence 2.6 mi. E. from New Hope School, at crossroads, 50 ft. N. of rd. W., in line with rd. S., in bench on N. side of 15-in. mesquite tree; copper nail and washer New Hope School, 0.8 mi. S., thence 1.8 mi. E. from, 25 ft. S. of rd., at junction of detour through pasture, on S. side of gate, on concrete base of corner fence post; chiseled square New Hope School, 0.8 mi. S., thence 1.0 mi. E. from, at jog in rd., 12 ft. N. and 20 ft. W. from rd. corner, on S. side of stone fence post, on rock; chiseled square	1, 609. 17 1, 623. 09
Home Church along roads west 3 miles, thence north to point 0.3 mile north of New Hope School, thence southwest and southeast to road junction 4 miles north of Old Glory (by W. R. Broaddus in 1925) Sweet Home Church, 2.9 mi. N. and 1.3 mi. W. from, 0.8 mi. S., thence 2.6 mi. E. from New Hope School, at crossroads, 50 ft. N. of rd. W., in line with rd. S., in bench on N. side of 15-in. mesquite tree; copper nail and washer New Hope School, 0.8 mi. S., thence 1.8 mi. E. from, 25 ft. S. of rd., at junction of detour through pasture, on S. side of gate, on concrete base of corner fence post; chiseled square New Hope School, 0.8 mi. S., thence 1.0 mi. E. from, at jog in rd., 12 ft. N. and 20 ft. W. from rd. corner, on S. side of stone fence post, on rock; chiseled square New Hope School, 0.8 mi. S. of, 15 ft. N. and 55 ft. E. from turn in rd. from W. to N., in fork of large mesquite tree; copper nail and washer New Hope School, 0.3 mi. N. of, 18 ft. S. and 18 ft. W. from crossroads, 4 ft. SW. of fence corner, in concrete post; standard tablet stamped	1, 609. 17 1, 623. 09 1, 632. 53 1, 627. 07
Home Church along roads west 3 miles, thence north to point 0.3 mile north of New Hope School, thence southwest and southeast to road junction 4 miles north of Old Glory (by W. R. Broaddus in 1925) Sweet Home Church, 2.9 mi. N. and 1.3 mi. W. from, 0.8 mi. S., thence 2.6 mi. E. from New Hope School, at crossroads, 50 ft. N. of rd. W., in line with rd. S., in bench on N. side of 15-in. mesquite tree; copper nail and washer New Hope School, 0.8 mi. S., thence 1.8 mi. E. from, 25 ft. S. of rd., at junction of detour through pasture, on S. side of gate, on concrete base of corner fence post; chiseled square New Hope School, 0.8 mi. S., thence 1.0 mi. E. from, at jog in rd., 12 ft. N. and 20 ft. W. from rd. corner, on S. side of stone fence post, on rock; chiseled square New Hope School, 0.8 mi. S. of, 15 ft. N. and 55 ft. E. from turn in rd. from W. to N., in fork of large mesquite tree; copper nail and washer New Hope School, 0.3 mi. N. of, 18 ft. S. and 18 ft. W. from crossroads, 4 ft. SW. of fence corner, in concrete post; standard tablet stamped "B 35 1925" Reference mark, 7 ft. NW. of tablet; top of iron pipe New Hope School, 0.3 mi. N., thence 0.9 mi. W. from, 0.5 mi. E., thence 0.6 mi. N. from Redhorse Crossing of Salt Fork of Brazos	1, 609. 17 1, 623. 09 1, 632. 53 1, 627. 07 1, 586. 949
Home Church along roads west 3 miles, thence north to point 0.3 mile north of New Hope School, thence southwest and southeast to road junction 4 miles north of Old Glory (by W. R. Broaddus in 1925) Sweet Home Church, 2.9 mi. N. and 1.3 mi. W. from, 0.8 mi. S., thence 2.6 mi. E. from New Hope School, at crossroads, 50 ft. N. of rd. W., in line with rd. S., in bench on N. side of 15-in. mesquite tree; copper nail and washer New Hope School, 0.8 mi. S., thence 1.8 mi. E. from, 25 ft. S. of rd., at junction of detour through pasture, on S. side of gate, on concrete base of corner fence post; chiseled square New Hope School, 0.8 mi. S., thence 1.0 mi. E. from, at jog in rd., 12 ft. N. and 20 ft. W. from rd. corner, on S. side of stone fence post, on rock; chiseled square New Hope School, 0.8 mi. S. of, 15 ft. N. and 55 ft. E. from turn in rd. from W. to N., in fork of large mesquite tree; copper nail and washer New Hope School, 0.3 mi. N. of, 18 ft. S. and 18 ft. W. from crossroads, 4 ft. SW. of fence corner, in concrete post; standard tablet stamped "B 35 1925" Reference mark, 7 ft. NW. of tablet; top of iron pipe. New Hope School, 0.3 mi. N., thence 0.9 mi. W. from, 0.5 mi. E.,	1, 609. 17 1, 623. 09 1, 632. 53 1, 627. 07 1, 586. 949 1, 586. 74 1, 588. 86

Salt Fork of Brazos River, at Redhorse Crossing; surface of water Feb. 12, 1925	Feet	
Redhorse Crossing, 650 ft. W. of W. bank of Salt Fork of Brazos River at, 650 ft. E. of two-story red house, on E. side of rd., 20 ft. N. of	1, 490. 0	
bend in rd., in rock outcrop; standard tablet stamped "B 36 1925". Reference mark, 25.5 ft. S.40°E. of tablet, on S. side of rd., on rock	1, 531. 079	3
outcrop; chiseled square	1, 529. 51	
Redhorse Crossing, 0.7 mi. W. of, 1.7 mi. N. of Robinson Crossing, 0.4 mi. SW. of two-story red house, 45 ft. NE. of rd. junction, in fork	•	
of group of mesquite trees; copper nail and washer	1, 551. 70	
mesquite tree; copper nail and washer	1, 517. 42	
Robinson Crossing, on W. bank of Salt Fork of Brazos River at, 25 ft. S. of crossing of EW. rd., in fork of large mesquite tree, 1.5 ft.		
above ground; copper nail and washer Robinson Crossing, 1.3 mi. E. of, 4.0 mi. N., thence 2.3 mi. NW. from	1, 529. 18	
Old Glory, on bluff on E. side of Salt Fork of Brazos River, 400 ft.	,	
W. of W. end of Ten X water hole, 120 ft. N. of rd. junction, 10 ft. W. of rd., in concrete post; standard tablet stamped "B 37 1925".	1, 627. 128	5
Reference mark, 12 ft. W. of tablet, in small mesquite tree; copper nail and washer		
Old Glory, 4.0 mi. N., thence 1.0 mi. NW. from, 0.4 mi. NW. of	1, 021. 21	
corner of public rd., 180 ft. NW. of junction of dim rd. SW., in mesquite tree; copper nail and washer	1, 664. 70	
Old Glory, 4.0 mi. N., thence 0.6 mi. W. from, 25 ft. W. of and in line with rd. E., 1 ft. E. of fence line, on top of iron pipe in ground;		
chiseled cross	1, 660. 11	
From Rule quadrangle west along State Highway 18 to Old Glory (by W. R. Broaddus in 1925)		
Old Glory, 2.1 mi. along Sagerton rd. E. of, 27 ft. S. and 26 ft. W. from junction of T-rd. S., 13 ft. W. of fence corner, in concrete post;		
standard tablet stamped "B 33 1925"	1, 620. 137	7
Reference mark, 100 ft. N. and 320 ft. W. from rd. junction, 55 ft. W. of fence line, in root on W. side of large forked mesquite tree; copper		
nail and washerOld Glory, 1.5 mi. E. of, 35 ft. S. and 85 ft. W. from junction of T-rd.	1, 619. 75	
N., 5 ft. inside fence, in 14-in. mesquite tree; copper nail and washer	1 627 22	
Old Glory, 0.6 mi. E. of, at jog in highway, 40 ft. S. and 25 ft. W. from		
junction of rd. S., in small mesquite tree; copper nail and washer	1, 652. 58	

BIG SPRING NORTH QUADRANGLE

[Latitude 32°15′-32°30′; longitude 101°15′-101°30′]

HOWARD COUNTY

Northeast of Big Spring (by E. W. Gouchenour in 1938)

[A jog from Big Spring South quadrangle]

Big Spring, 3.4 mi. E. of, about 1 mi. S. along old county rd. from U. S. Highway 80, about 100 ft. W. of steel bridge, 15 ft. N. of rd., in root on N. side of small mesquite tree; copper nail and washer... 2, 380. 48

Big Spring, 4.2 mi. E. of, about 0.8 mi. W. of right-angle bend to N. in old U. S. Highway 80, about 0.6 mi. S. of Cosden refinery, on S. side of rd., in concrete post; standard tablet stamped "G 1 1938 2434"	Feet 2, 434. 409
Big Spring, 5.0 mi. along old Highway 80 E. of, at right-angle bend from E. to N., 1.0 mi. SE. of Cosden refinery, on S. head wall of concrete culvert; chiseled square	·
From Big Spring South quadrangle at point about 3 miles south and 0.6 mile southwest from Coahoma northeast and north along roads to Coahoma, thence west along Texas & Pacific Railway 1.9 miles (by E. W. Gouchenour in 1938)	
Coahoma, 3.0 mi. S. of, 1.0 mi. W. of Gulf pumping sta., 120 ft. E. of point where rd. to Coahoma crosses Gulf pipe line, 3 ft. W. of telephone pole, in concrete post; standard tablet stamped "G 4 1938	
Reference mark, 80 ft. SE. of tablet, in root on S. side of mesquite tree; copper nail and washer	2, 267. 23
and washer	2, 287. 86 2, 376. 44 2, 406. 905
BIG SPRING NO. 4 QUADRANGLE	2, 121. 210
[Latitude 32°00′-32°15′; longitude 101°00′-101°15′]	
HOWARD, MITCHELL, AND STERLING COUNTIES	
Southeast and southwest along roads northeast of Ross City (by E. W. Gouche-	
Southeast and southwest along roads northeast of Ross City (by E. W. Gouche- nour in 1938; leveled twice) [A jog from Big Spring South quadrangle]	
nour in 1938; leveled twice) [A jog from Big Spring South quadrangle] Coahoma, 10.6 mi. SE. of, in narrow canyon, in root of mesquite tree; copper nail and washer Coahoma, 11.3 mi. SE. of, on N. edge of S. bluff of Devil's Creek, 3	2, 293. 70
nour in 1938; leveled twice) [A jog from Big Spring South quadrangle] Coahoma, 10.6 mi. SE. of, in narrow canyon, in root of mesquite tree; copper nail and washer	
nour in 1938; leveled twice) [A jog from Big Spring South quadrangle] Coahoma, 10.6 mi. SE. of, in narrow canyon, in root of mesquite tree; copper nail and washer	2, 386. 066
nour in 1938; leveled twice) [A jog from Big Spring South quadrangle] Coahoma, 10.6 mi. SE. of, in narrow canyon, in root of mesquite tree; copper nail and washer	2, 386. 066 2, 397. 86 2, 417. 14
nour in 1938; leveled twice) [A jog from Big Spring South quadrangle] Coahoma, 10.6 mi. SE. of, in narrow canyon, in root of mesquite tree; copper nail and washer	2, 386. 066 2, 397. 86 2, 417. 14

BIG SPRING SOUTH QUADRANGLE

[Latitude 32°00′-32°15′; longitude 101°15′-101°30′]

GLASSCOCK, HOWARD, AND STERLING COUNTIES

From Big Spring alternately southwest and southeast along roads by way of Lees into Garden City No. 2 quadrangle at point about 5.6 miles south of Lees (by E. E. Harris in 1920)	Fe	oot
U. S. C. & G. S. standard disk designated "L 14"		
Big Spring, in front of new brick sta. of Texas & Pacific Ry.; top of	~ , 10	1. 000
nearest rail	2 40	1.3
Big Spring, 1.1 mi. SW. of, on E. side of main rd. S., 2 ft. E. of	2 , 10	1. 0
telephone pole, on N. side of fireplug, on top of circular outlet; chiseled cross.	0 51	
Big Spring, 2.8 mi. SW. of, at entrance to waterworks, 30 ft. S. and	2, 01	ð. ð <i>i</i>
45 ft. W. from rd. fork, 2 ft. N. of telephone pole, 1 ft. W. of wire		
fence; iron post stamped "1920 Texas 2620" (recovered by U. S.		
C. & G. S. in 1933)	2, 62	0. 431
Big Spring, 3.9 mi. S. of, on W. side of rd., 350 ft. S. of right-angle		
turn, in center of top of concrete culvert; chiseled square	2, 63	5. 22
Big Spring, 7.2 mi. S. of, 20 ft. S. and 38 ft. W. from junction of T-rd.		
SW., 4 ft. W. of corner fence post, 1 ft. N. of wire fence; iron post		
stamped "1920 Texas 2622" (recovered by U. S. C. & G. S. in 1933) -	2, 62	1. 340
Big Spring, 8.2 mi. S. of, at creek crossing, on W. side of iron bridge,		
3 ft. S. of N. end; top of bolt head	2, 60	4. 02
Big Spring, 10.2 mi. S. of, 38 ft. S. and 28 ft. W. from junction of		
Garden City and Sterling City rds., on rd. side of wire fence,		
4 ft. S. of corner fence post; iron post stamped "1920 Texas 2694"		
(recovered in 1938; recovered also by U. S. C. & G. S. in 1933)	2, 69	4. 089
Big Spring, 10.2 mi. S., thence 1.0 mi. SW. from, 3.0 mi. NW., thence		
1.0 mi. NE. from Lees, opposite gate at entrance to ranch house		
of C. A. Ballard, on S. side of rd., in SW. corner of angle in wire		
fence, on projecting rock; chiseled square	2, 66	2. 38
Lees, 3.0 mi. NW. of, in center of NWSE. rd., in line with rd. NE.,	0 01	4 50
on large rock outcrop; highest point	2, 61	4. 58
Lees, 2.0 mi. NW. of, 15 ft. E. of center line of rd., 140 ft. N. of		
junction of T-rd. W., on top of E. end of 15-in. drain pipe; chiseled	0.00	F 07
square	2, 00	5. 27
Lees, in NW. angle of crossroads at, inside wire fence; iron post stamped "1920 Texas 2590"	0 50	0 011
Lees, 1.0 mi. SE. of, 5 ft. W. of center line of rd., in center line of lane	۵, 59	0. 211
to ranch house of W. S. Woolsey, on large rock level with rd.; chiseled		
square	9 50	7 59
Lees, 2.0 mi. SE. of, 25 ft. W. of center line of rd., 4 ft. N. of angle in	2, 50	7. 55
wire fence, on milestone "G C 15"; chiseled square	9 61	6 25
Lees, 3.0 mi. SE. of, in NW. angle in rd., 7 ft. W. of corner fence post,	2, 01	0. 33
on milestone "G C 14"; chiseled square	2 70	0 63
Lees, 4.4 mi. by rd. S. of, in E. angle of rd. junction, 2 ft. W. of corner	2, 10	0. 00
fence post; iron post stamped "1920 Texas 2617"	2 61	7.534
Lees, 5.4 mi. S. of, 10 ft. E. of center line of rd., opposite milestone		551
"G C 11," in line with ditch W., in NE. corner of box culvert; copper		
nail and washer	2, 60	6, 44
Hall wild Washel		

From Big Spring alternately northeast and southeast along roads and trails into Big Spring North quadrangle at point about 3 miles south and 0.6 mile southwest from Coahoma (by E. W. Gouchenour in 1938)		Feet	
U. S. C. & G. S. standard disk stamped "Big Spring 1933" Big Spring, at E. limits of, 1.0 mi. E. of municipal auditorium, about 200 ft. NE. of Hall Wrecking Co. building, on E. end of S. head	2, 4		887
wall of concrete culvert over small drain; chiseled square Big Spring, 1.1 mi. E. along U. S. Highway 80, thence 0.8 mi. S. from auditorium, 100 ft. NE. of crossroads, in root on S. side of mesquite tree; copper nail and washer			
[Line jogs into Big Spring North quadrangle]	4, 4	:00.	14
Big Spring, 6.0 mi. E. of, 1.0 mi. S. of right-angle bend N. and E. in old U. S. Highway 80, about 0.3 mi. along ranch rd. NE. of ranch house of A. Richardson, at wooden bridge over Beals Creek, in			
NW. corner of floor; copper nail and washer	2, 3	51.	71
pole 5895, 18 ft. W. of center line of wooden gate, in root of cedar tree; copper nail and washer	2, 4	69.	88
ranch house, 2.5 mi. S. of Midway School on old U. S. Highway 80, at point of hill, at pipe line, 55 ft. S. of telephone pole, in root on W. side of cedar tree; copper nail and washerBig Spring, 9.2 mi. E. of, 500 ft. N. of point where signal peak rd.		75.	85
crosses Gulf pipe line, 25 ft. E. of rd., in concrete post; standard tablet stamped "G 2 1938 2434"		34.	073
and washer	2, 4	27.	20
in concrete post; standard tablet stamped "G 3 1938 2396" Reference mark, 800 ft. E. of tablet, 50 ft. NW. of center of gate, 20 ft. N. of center line of rd., in root of mesquite tree; copper nail	2, 3	95.	536
and washer			
on W. side of mesquite tree; copper nail and washer From Big Spring North quadrangle at point about 3.5 miles southeast of Coahoma southeast and southwest along roads and trails by way of Ross City to proposed site of town of New Drumright, 1.9 miles southwest of intersection of route road and U. S. Highway 87 (by E. W. Gouchenour in 1988; leveled twice to Ross City)		<i>31.</i> '	
Coahoma, 4.2 mi. SE. of, along old rd. S. to R. L. Powell ranch and along Magnolia water line to Chalk oil field, 0.9 mi. S. of Magnolia pumping sta., 1.5 mi. SW. of Gulf pumping sta., 190 ft. NW. of gate at S. break of hill, 18 ft. E. of rd., in root of mesquite tree; copper nail and washer	2, 29	96. !	92
Coahoma, 5.3 mi. SE. of, 0.8 mi. S. of Powell ranch house, along Magnolia water pipe line, on NE. edge of mesa, 12 ft. E. of rd., 19 ft. E. of pipe line and fence, in root on N. side of mesquite tree; copper nail and washer			
	•		

Coahoma, 6.3 mi. SE. of, along Magnolia water pipe line and telephone line S. to Chalk Store, about 2.2 mi. SW. of Gulf pumping sta., on top of ridge, at fence corner, 2 ft. E. of telephone pole, in concrete post; standard tablet stamped "G 5 1938 2358"	2, 355. 42 2, 322. 32 2, 271. 32 2, 275. 92	22 22 22 23
square	2, 2/4. 40	9
[Line jogs into Big Spring No. 4 quadrangle]		
Ross City, 3.7 mi. NE. of, 0.5 mi. NE. of Chalk Store, 120 ft. W. of pipe line crossing, about 1,000 ft. W. of low-water bridge over drain, 30 ft. N. of center line of rd., in root on E. side of mesquite tree; copper nail and washer————————————————————————————————————		
in root of mesquite tree; copper nail and washer————————————————————————————————————	·	
Ross City, 0.8 mi. E. of, 50 ft. NW. of junction of rd. S. to Sterling City, on W. concrete head wall of culvert; chiseled squareRoss City, 0.3 mi. E. of junction of rd. to center of village, 50 ft. S. of junction of dim rd. N., in NW. cor. sec. 140, block 29, Waco & Northwestern R. R. survey, in concrete post, marked by cairn;	2, 637. 52	2
standard tablet stamped "G 9 1938 2707"		
Ross City, 1.7 mi. SW. of, 0.6 mi. E. of Texas Tool & Machine Shop building, 60 ft. S. of junction of rd. SE., 70 ft. S. and 35 ft. W. from junction of rd. NE., in crotch of twin mesquite tree; copper nail and washer		
Ross City, 2.3 mi. SW. of, 480 ft. W. of Texas Tool & Machine Shop building, on top of ridge, 170 ft. SW. of twin oil storage tanks, 150 ft. W. of junction of rd. N. to oil lease, 60 ft. N. of highway, 6 ft. E. of second telephone pole W. of shop, in rock ledge; standard tablet stamped "G 10 1938 2753"		
Ross City, 3.2 mi. SW. of, at E. foot of small ridge, on N. concrete head wall of culvert; chiseled square		
concrete culvert over drain; chiseled square	2, 671. 46	6

Ross City, 5.9 mi. SW. of, 13.9 mi. SE. of Big Spring, 90 ft. E. of center of intersection of U. S. Highway 87, 42 ft. SE. of center line of cattle guard, inside fence, in concrete post; standard tablet stamped "G 11 1938 2657"	2, 657. 12 2, 658. 56 2, 631. 6	6 5
From point about 4 miles in air line south of Ross City along roads east 0.9 mile thence north 3.8 miles to road junction 0.8 mile east of Ross City (by E. W Gouchenour in 1938; partly leveled twice)		
U. S. C. & G. S. standard disk stamped "S 111 1933"		
exposed rock; chiseled square	·	
mesquite tree; copper nail and washer		
Ross City, 0.8 mi. E., thence 0.8 mi. S. from, at junction of rd. W., at point where power line from W. joins main NS. power line, at SW. corner of steel and wood cattle guard; top of 2-in. iron pipe		
From point 0.8 mile east and 5.7 miles south from Ross City south along road 1.1 miles, thence generally west along trails to road junction 4.4 miles south of Lees (by E. W. Gouchenour in 1938)		
U. S. C. & G. S. standard disk stamped "R 111 1933"Ross City, 0.8 mi. E., thence 6.8 mi. S. from, 120 ft. S. and 113 ft. W. from intersection of rd. and fence line W., 82 ft. N. and 113 ft. W. from intersection of U. S. Highway 87, at cor. secs. 28, 29, 224, and 225, blocks 29 and 30, W. & N. W. R. R. survey, in NW. corner of	2, 593. 0	59
concrete bridge; standard tablet stamped "T T 25 C 1938 2558". Reference mark, 50 ft. N. of tablet, on E. end of N. head wall of concrete bridge; chiseled square		
Ross City, 6.8 mi. in air line S. of, 1.0 mi. W. of highway intersection, 15 ft. E. of NS. fence, 3 ft. S. of EW. fence, at cor. secs. 29, 40, 223, and 224, blocks 29 and 30, W. & N. W. R. R. survey, in root of mesquite tree; copper nail and washer	2, 555. 5	8

Ross City, 6.8 mi. S. and 1.1 mi. W. from, 285 ft. W. of T-fence N. at cor. sees. 222, 223, 40, and 41, blocks 29 and 30, W. & N. W. R. R. survey, in root on S. side of mesquite tree; copper nail and washer Ross City, 6.8 mi. S. and 2.2 mi. W. from, along section line between blocks 29 and 30, W. & N. W. R. R. survey, about 400 ft. SE. of gate at power line, in crotch of twin mesquite tree; copper nail and washer	Feet 2, 612. 73 2, 653. 64
Ross City, 6.8 mi. S. and 3.0 mi. W. from, 6.0 mi. due S. of Texas Tool & Machine Shop, 300 ft. E. of T-fence S. at cor. secs. 221, 222, 41, and 52, blocks 29 and 30, W. & N. W. R. R. survey, on rock in place; chiseled square	2, 714. 62
Ross City, 6.8 mi. S. and 3.5 mi. W. from, about 7 mi. S. and 0.6 mi. E. in air line from Forsan, 555 ft. W. of center of gate at McCamey-Healdton pipe line, on top of ridge, 2 ft. N. of fence on line between secs. 53 and 220, blocks 29 and 30, W. & N. W. R. R. survey, in	
concrete post; standard tablet stamped "T T 26 C 1938 2710" Reference mark, 110 ft. NW. of tablet, on rock in place; chiseled	
Ross City, 6.8 mi. S. and 4.3 mi. W. from, about 7 mi. S. of Forsan, on top of prominent ridge, on section line between blocks 29 and 30, W.	2, 708. 45
& N. W. R. R. survey, on rock in place; chiseled square Ross City, 6.8 mi. S. and 5.9 mi. W. from, about 5.1 mi. S. and 5.1 mi. E. in air line from Lees, on section line between blocks 29 and 30, W. & N. W. R. R. survey, 33 ft. E. of telephone pole along pipe line, 12 ft. N. and 48 ft. E. from red gate in EW. fence, on rock in place;	
chiseled square	
in concrete post; standard tablet stamped "T T 27 C 1938 2726" Reference mark, 280 ft. N. of tablet, 3 ft. N. of fence, on rock in place;	
chiseled square. Lees, 5.1 mi. S. and 3.3 mi. E. from, 4.0 mi. S. and 0.8 mi. W. from Panther Draw School, 190 ft. E. of gate, at SW. cor. sec. 217, block 30, W. & N. W. R. R. survey, in root on E. side of mesquite tree;	
copper nail and washer	2, 742. 26
[Line jogs into Garden City No. 2 quadrangle]	
Lees, 4.4 mi. by rd. S., thence 1.7 mi. E. from, 30 ft. S. and 70 ft. E. from SE. corner of corral fence at windmill and tank, in root of 5-in. mesquite tree; copper nail and washer	
per nail and washer From road junction 10.2 miles south of Big Spring along roads alternately southwest and southeast by way of Lees to road junction 4.4 miles south of Lees (by S. G. Lunde in 1938)	2, 634. 90
Lees, 3.0 mi. NW., thence 1.0 mi. NE. from, 30 ft. NW. of center line of rd., at T-fence N., in S. side of corner post, 6 in. above ground; top of five spikes.	2, 661. 04
Lees, 3.0 mi. NW. of, at junction of NWSE. rd., on E. side of rd. to El Bow, at NE. corner fence post; top of 1½-in. iron pipe with cap stamped "91 MO 06," projecting 1 ft. above ground	2, 614. 81

Lees, 3.0 mi. NW. of, in NW. angle of rd. junction, 6 ft. S. of T-fence	
W., 1 ft. E. of fence line, in concrete post; standard tablet stamped	
"T T 15 C 1938 2614"	
Lees, 2.0 mi. NW. of, at S. end of culvert, on top of W. concrete wall; chiseled square	9 665 54
Lees, 1.2 mi. NW. of, at S. end of culvert, on top of W. concrete wall;	•
chiseled square	
of rd.; top of 1½-in. iron pipe with cap stamped "MOCO," projecting	
6 in. above ground	
Lees, 95 ft. N. of Miss Westerman's store, 135 ft. NW. of crossroads, 2 ft. E. of fence, in concrete post; standard tablet stamped "T T 16	
C 1938 2589"	2, 588. 687
Lees, 1.0 mi. SE. of, at junction of T-rd. E., on top of W. end of S. concrete head wall of cattle guard; chiseled square	
Lees, 2.0 mi. SE. of, on W. side of rd., at angle of fences W. and N.,	
in E. side of corner post, 6 in. above ground; top of square-headed bolt	
Lees, 3.0 mi. SE. of, at junction of private rds. SE. and E., 70 ft. NE.	2, 010. 00
of angle in highway, 6 ft. S. of telephone pole E-20; top of 1½-in. iron	
pipe with cap stamped "MOCO 85," projecting 1 ft. above ground_ BLACKWELL QUADRANGLE	2, 700. 09
[Latitude 32°00'-32°15'; longitude 100°15'-100°30']	
COKE AND NOLAN COUNTIES	
From Sweetwater quadrangle generally southeast along Kansas City, Mexico	
& Orient Railway ¹³ into Robert Lee quadrangle (by A. K. Andrews in 1921; double-rodded line)	
Maryneal, just S. of sta., about 0.5 mi. S. of milepost 657, 500 ft. S.	
of water tank, 200 ft. S. of crossing, 70 ft. W. of center line of track; iron post stamped "2568" (recovered by H. S. C. & G. S. in 1935)	2 567 544
iron post stamped "2568" (recovered by U. S. C. & G. S. in 1935) Maryneal, 3.5 mi. S. of, 50 ft. W. of center line of track, 300 ft. E. of	2, 567. 544
iron post stamped "2568" (recovered by U. S. C. & G. S. in 1935) Maryneal, 3.5 mi. S. of, 50 ft. W. of center line of track, 300 ft. E. of rd., 100 ft. N. of milepost 661; iron post stamped "1921 Texas 2440"	
iron post stamped "2568" (recovered by U. S. C. & G. S. in 1935). Maryneal, 3.5 mi. S. of, 50 ft. W. of center line of track, 300 ft. E. of rd., 100 ft. N. of milepost 661; iron post stamped "1921 Texas 2440" (recovered by U. S. C. & G. S. in 1935)	
iron post stamped "2568" (recovered by U. S. C. & G. S. in 1935)	2, 439. 838
iron post stamped "2568" (recovered by U. S. C. & G. S. in 1935) Maryneal, 3.5 mi. S. of, 50 ft. W. of center line of track, 300 ft. E. of rd., 100 ft. N. of milepost 661; iron post stamped "1921 Texas 2440" (recovered by U. S. C. & G. S. in 1935) Maryneal, 6.6 mi. S. of, 7.1 mi. N. of Blackwell, 300 ft. S. of R. R. bridge 132, 300 ft. S. of milepost 664, 60 ft. W. of center line of track at N. end of cut; iron post stamped "1921 Texas 2300" (recovered	2, 439. 838
iron post stamped "2568" (recovered by U. S. C. & G. S. in 1935)	2, 439. 838
iron post stamped "2568" (recovered by U. S. C. & G. S. in 1935)	2, 439. 838
iron post stamped "2568" (recovered by U. S. C. & G. S. in 1935) Maryneal, 3.5 mi. S. of, 50 ft. W. of center line of track, 300 ft. E. of rd., 100 ft. N. of milepost 661; iron post stamped "1921 Texas 2440" (recovered by U. S. C. & G. S. in 1935) Maryneal, 6.6 mi. S. of, 7.1 mi. N. of Blackwell, 300 ft. S. of R. R. bridge 132, 300 ft. S. of milepost 664, 60 ft. W. of center line of track at N. end of cut; iron post stamped "1921 Texas 2300" (recovered by U. S. C. & G. S. in 1935) Blackwell, 4.1 mi. N. of, 40 ft. W. of center line of track, 1,500 ft. S. of milepost 667, on N. side of public rd. crossing track, 4 ft. outside fence; iron post stamped "1921 Texas 2183" (recovered by U. S. C. & G. S. in 1935)	2, 439. 838 2, 299. 546
iron post stamped "2568" (recovered by U. S. C. & G. S. in 1935)	2, 439. 838 2, 299. 546
iron post stamped "2568" (recovered by U. S. C. & G. S. in 1935)	2, 439. 838 2, 299. 546 2, 183. 148
iron post stamped "2568" (recovered by U. S. C. & G. S. in 1935)	2, 439. 838 2, 299. 546 2, 183. 148
iron post stamped "2568" (recovered by U. S. C. & G. S. in 1935)	2, 439. 838 2, 299. 546 2, 183. 148
iron post stamped "2568" (recovered by U. S. C. & G. S. in 1935)	2, 439. 838 2, 299. 546 2, 183. 148 2, 081. 781
iron post stamped "2568" (recovered by U. S. C. & G. S. in 1935)	2, 439. 838 2, 299. 546 2, 183. 148 2, 081. 781
iron post stamped "2568" (recovered by U. S. C. & G. S. in 1935) Maryneal, 3.5 mi. S. of, 50 ft. W. of center line of track, 300 ft. E. of rd., 100 ft. N. of milepost 661; iron post stamped "1921 Texas 2440" (recovered by U. S. C. & G. S. in 1935) Maryneal, 6.6 mi. S. of, 7.1 mi. N. of Blackwell, 300 ft. S. of R. R. bridge 132, 300 ft. S. of milepost 664, 60 ft. W. of center line of track at N. end of cut; iron post stamped "1921 Texas 2300" (recovered by U. S. C. & G. S. in 1935) Blackwell, 4.1 mi. N. of, 40 ft. W. of center line of track, 1,500 ft. S. of milepost 667, on N. side of public rd. crossing track, 4 ft. outside fence; iron post stamped "1921 Texas 2183" (recovered by U. S. C. & G. S. in 1935) Blackwell, 1.0 mi. N. of, 450 ft. S. of milepost 670, 30 ft. E. of center line of track, on N. side of rd., 2 ft. outside fence; iron post stamped "1921 Texas 2082" (recovered by U. S. C. & G. S. in 1935) Blackwell, 2.0 mi. S. of, 1,500 ft. S. of milepost 673, on N. side of public rd. crossing track, 50 ft. W. of center line of track, 4 ft. from fence corner; iron post stamped "1921 Texas 1999" (recovered by U. S. C. & G. S. in 1935) Blackwell, 4.4 mi. S. of, 2.1 mi. N. of Fort Chadbourne, 900 ft. N. of rd. crossing track, near S. end of cut, 20 ft. E. of center line of track, in sandstone ledge; standard tablet stamped "1921 Texas	2, 439. 838 2, 299. 546 2, 183. 148 2, 081. 781 1, 998. 513
iron post stamped "2568" (recovered by U. S. C. & G. S. in 1935) Maryneal, 3.5 mi. S. of, 50 ft. W. of center line of track, 300 ft. E. of rd., 100 ft. N. of milepost 661; iron post stamped "1921 Texas 2440" (recovered by U. S. C. & G. S. in 1935) Maryneal, 6.6 mi. S. of, 7.1 mi. N. of Blackwell, 300 ft. S. of R. R. bridge 132, 300 ft. S. of milepost 664, 60 ft. W. of center line of track at N. end of cut; iron post stamped "1921 Texas 2300" (recovered by U. S. C. & G. S. in 1935) Blackwell, 4.1 mi. N. of, 40 ft. W. of center line of track, 1,500 ft. S. of milepost 667, on N. side of public rd. crossing track, 4 ft. outside fence; iron post stamped "1921 Texas 2183" (recovered by U. S. C. & G. S. in 1935) Blackwell, 1.0 mi. N. of, 450 ft. S. of milepost 670, 30 ft. E. of center line of track, on N. side of rd., 2 ft. outside fence; iron post stamped "1921 Texas 2082" (recovered by U. S. C. & G. S. in 1935) Blackwell, 2.0 mi. S. of, 1,500 ft. S. of milepost 673, on N. side of public rd. crossing track, 50 ft. W. of center line of track, 4 ft. from fence corner; iron post stamped "1921 Texas 1999" (recovered by U. S. C. & G. S. in 1935) Blackwell, 4.4 mi. S. of, 2.1 mi. N. of Fort Chadbourne, 900 ft. N. of rd. crossing track, near S. end of cut, 20 ft. E. of center line of	2, 439. 838 2, 299. 546 2, 183. 148 2, 081. 781 1, 998. 513

¹⁹ Now the Panhandle & Santa Fe Railway.

¹⁴ In July 1930 this bench mark was moved 49 feet west of this position and reset at the same elevation.

Fort Chadbourne, 100 ft. NW. of sta., about 0.5 mi. S. of milepost 677, 70 ft. W. of center line of track, 70 ft. S. of rd.; iron post Feet stamped "1921 Texas 1962" (recovered by U. S. C. & G. S. in 1935) 1, 961. 866

CAMP SPRINGS QUADRANGLE

[Latitude 32°45′-33°00′; longitude 100°30′-100°45′]

FISHER, KENT, SCURRY, AND STONEWALL COUNTIES

From Rotan quadrangle west and northwest along Rotan-Clairement road into Clairement quadrangle (by C. E. Walker in 1925)	
Rotan, 7.9 mi. along Rotan-Aspermont rd. N., thence 1.0 mi. W. from, 65 ft. SW. of junction of T-rd. N., 2 ft. above ground, in NE. side of leaning 6-in. mesquite tree; copper nail and washer	
copper nail and washer	2, 112. 69
WA 1925 Texas" Reference mark, 110 ft. SE. of gate, 90 ft. NE. of center line of rd., 40 ft. NW. of NESW. fence line, in W. side of leaning mesquite tree;	
copper nail and washer	
From Clairemont quadrangle at point 2.8 miles southwest of ranch of Sid Johnson along roads generally south and east into Rotan quadrangle at point about 2 miles northwest of Rotan (by C. E. Walker in 1925)	2, 120. 16
Johnson ranch house, 3.3 mi. SW. of, 2.4 mi. NE. of ranch house of Amos Bostick, 65 ft. W. of rd., in NW. side of leaning mesquite	
tree; copper nail and washer Bostick ranch, 29 ft. SE. of SE. corner of ranch house, at SE. corner of yard, 3 ft. W. of fence corner, in concrete post; standard tablet	
stamped "12 WA 1925 Texas". Reference mark, in barn lot, on top of SE. corner of concrete watering	•
tank; chiseled square	•
gate, in N. side of leaning mesquite tree; copper nail and washer County Line School, 1.4 mi. N. of, at Garrison ranch, on N. bank of Double Mountain Fork of Brazos River, 15 ft. W. of rd., in crotch of	
6-in. mesquite tree; copper nail and washer County Line School, 165 ft. SE. of, 2.0 mi. N. of Baron ranch, in concrete post; standard tablet stamped "Prim Trav Sta No 8 WC 1924"_	
Reference mark, 500 ft. SE. of schoolhouse, 15 ft. E. of center line of rd., in N. side of 8-in. mesquite tree, on top of projecting limb 2 ft. above	
ground; copper nail and washer	
10-in. mesquite tree; copper nail and washer County Line School, 2.5 mi. S. of, about 12 mi. NW. of Rotan, on N. bank of Rough Creek, at crossing, 15 ft. S. of rd., in crotch of triple-	2, 038. 64
trunked mesquite tree; copper nail and washer	1, 904. 32

Rotan, 7.1 mi. W. of, on Rotan-Hudd rd., 25 ft. E. of mail box of O. M. Davidson, in right-angle bend in rd. from W. to N., 14 ft. NE. of corner of rd., at SW. corner of cultivated field, at wire gate, in concrete post; standard tablet stamped "Prim Trav Sta No 7 WC 1924". Reference mark, 0.25 mi. SW. of ranch house of O. M. Davidson, 120 ft. E. of gate, at right-angle bend in rd. to N., on S. side of rd., in crotch of mesquite tree; copper nail and washer. Rotan, 4.5 mi. W. of, on Rotan-Hudd rd., in corner of fence, 3 ft. from T-fence, at right-angle turn in rd., in concrete post; standard tablet stamped "Prim Trav Sta No 6 WC 1924". Rotan, 4.0 mi. W. of, in NW. corner of crossroads, at SE. corner of front yard of residence, about 30 ft. E. of house, in concrete post; standard tablet stamped "Prim Trav Sta No 5 WC 1924".	Feet 2, 082. 911 2, 081. 82 2, 104. 707
CHANNING NO. 4 QUADRANGLE ¹⁵	
[Latitude 35°30′-35°45′; longitude 102°00′-102°15′]	
HARTLEY, MOORE, OLDHAM, AND POTTER COUNTIES	
Northwest along Panhandle & Santa Fe Railway and east along State Highway 5 (by S. R. Archer in 1933)	
[A jog from Fourways quadrangle]	
Exell, 3.3 mi. along Panhandle & Santa Fe Ry. NW. of sta. at, at milepost 38, at E. right-of-way fence line, in top of 6- by 6-in. concrete post; bolt (R. R. B. M.; recovered by U. S. C. & G. S. in 1934)	3, 731. 610
1934)	
Reference mark, 0.3 mi. along R. R. SW. of tablet, at milepost 39, at E. right-of-way fence line, in top of 6- by 6-in. concrete post; bolt (R. R. B. M.; recovered by U. S. C. & G. S. in 1934) From Ady quadrangle northeast along roads by way of Bivins ranch into Fourways quadrangle (by F. J. Fricke in 1933; releveled by C. S. Carney in 1934)	3, 730. 8 23
Bivins River Camp, 3.2 mi. along rd. to Bivins ranch headquarters NE. of, on top of hill, 20 ft. E. of center line of rd., set flush with ground and surrounded by rocks; top of iron rod	3, 388. 77
rounded by rocks; top of iron rod. Bivins ranch headquarters, 3.8 mi. SW. of, in NE½ sec. 46, 810 ft. S. and 340 ft. W. from iron pipe at cor. secs. 46 and 53, block 2, Gunter & Munson survey, and block O 18, D. & P. R. R. Co. survey, in concrete post; standard tablet stamped "T T D 4 1933"	3, 363. 51

¹⁵ The figures of elevation given are preliminary figures based on the 1929 general adjustment; additional leveling may necessitate further adjustment.

Bivins ranch headquarters, 2.6 mi. SW. of, on top of ridge, 9 ft. E. of center line of rd., set flush with ground and surrounded by rocks; top of iron rod	Feet 3, 481. 82
Bivins ranch headquarters, 1.9 mi. SW. of, 10 ft. N. of center of gate, 3.5 ft. N. of N. post of gate in NS. fence line, set flush with ground and surrounded by rocks; top of iron rod	
Bivins ranch headquarters, 1.2 mi. S. of, 40 ft. SW. of point where old and new rds. separate, 2.4 ft. W. of corner post of fences S. and	J, ±JO. JO
W., in fence line, set flush with ground and surrounded by rocks; top of iron rod	3, 462. 18
P. R. R. Co. survey, and block B11, E. L. & R. R. R. R. Co. survey, in concrete post; standard tablet stamped "T T D 3 1933" Bivins ranch headquarters, 1.0 mi. E. of, 10 ft. S. of center of cattle	3, 431. 282
guard in NS. fence line, 2.5 ft. S. of S. steel post of cattle guard, in fence line, set flush with ground; top of steel rod	3, 470. 70
CHILDRESS NO. 4 QUADRANGLE	
[Latitude 34°00′-34°15′; longitude 100°00′-100°15′]	
COTTLE AND FOARD COUNTIES	
Along roads southwest to Y L ranch, thence east (by R. W. Burchard in 1925)	
[A jog from Vivian quadrangle]	
Y L ranch, about 3 mi. NE. of, 30 ft. S. of gate, in NS. fence line, in concrete post; standard tablet stamped "Prim Trav Sta No 64 K 1925"	1 671 215
Reference mark, on rock at base of S. gatepost; chiseled square	
CLAIREMONT NO. 4 QUADRANGLE	-,
[Latitude 33°00′-33°15′; longitude 100°30′-100°45′]	
KENT AND STONEWALL COUNTIES	
From Camp Springs quadrangle along Rotan-Clairemont road northwest 1.3 miles, thence west and south and back into Camp Springs quadrangle (by C. E. Walker in 1925)	
Rotan, 7.9 mi. N., thence 6.6 mi. NW. from, at head of canyon, 20 ft. S. of center line of rd., on rock outcrop in streambed; chiseled square	9 140 60
Rotan, 7.9 mi. N., thence 7.3 mi. NW. from, 9.0 mi. NW. of highway bridge over Double Mountain Fork of Brazos River, on W. side of Rotan-Clairemont rd., 38 ft. W. of cattle guard, in fence	2, 149. 08
line, in concrete post; standard tablet stamped "Prim Trav Sta No 10 WC 1924"	2, 186. 684
guard, 40 ft. SW. of center line of rd., in NW. side of double-forked mesquite tree; copper nail and washer	
Rotan, 15.2 mi. NW., thence 1.9 mi. W. from, 1.0 mi. E. of ranch house of Sid Johnson, at jog in rd., about 1,000 ft. SE. of tenant house, on N. side of rd., in NW. side of leaning 4-in. mesquite tree;	
copper nail and washer	2, 181. 37
WA 1925 Texas"	2, 142. 983
Reference mark, 48 ft. S. of SW. corner of ranch house, in SE. branch of triple-trunked mesquite tree; copper nail and washer	2, 141. 85

Johnson ranch house, 0.9 mi. SW. of, on rd. to Bostick ranch, 60 ft. W. of NS. rd. along fence, 120 ft. W. of pond, in top of fork of double 8-in. mesquite tree; copper nail and washer	•
copper nail and washer	2, 123. 38
CLAUDE NO. 1 QUADRANGLE ¹⁶	
[Latitude 35°15′-35°30′; longitude 101°00′-101°15′]	
CARSON AND GRAY COUNTIES	

From Plemons quadrangle southwest along Panhandle & Santa Fe Railway to White Deer, thence north along road about 5 miles and back into Plemons quadrangle (by Tom Carney in 1926)

Pampa, 4.0 mi, SW, of, 3.0 mi, NE, of Kings Mill, 50 ft, S, of milepost

Pampa, 4.0 ml. Sw. of, 3.0 ml. N.E. of Kings Mill, 50 ft. S. of milepost		
503, in right-of-way fence line; iron hub	3, 271. 3	36
Kings Mill, 2.0 mi. NE. of, opposite milepost 504, in right-of-way		
fence line, in concrete post; standard tablet stamped "TC 21 1926"		
(recovered by U. S. C. & G. S. in 1935)	3, 279, 7	770
Reference mark, 120 ft. E. of tablet, in fence line; iron hub.		
Kings Mill, 1.0 mi. NE. of, 7 telephone poles W. of milepost 505, 28 ft.	-,	
N. of center line of highway, in right-of-way fence line; iron hub	3, 290, 7	71
Kings Mill, at milepost 506, on S. side of track, in corner of right-of-	,	
way fence, in concrete post; standard tablet stamped "TC 22 1926"		
(recovered by U. S. C. & G. S. in 1935)11	3, 304.	199
Reference mark, 220 ft. E. of tablet; iron hub		
Kings Mill, 1.0 mi. SW. of, 0.3 mi. W. of Carson-Gray county line, at	•	
milepost 507, 28 ft. N. of center line of rd., in right-of-way fence		
line; iron hub	3, 311, 4	41
Kings Mill, 2.0 mi. SW. of, at milepost 508, in concrete post; stand-	•	
ard tablet stamped "TC 23 1926" (recovered by U. S. C. & G. S.		•
in 1935)	3, 316.	772
Reference mark, 240 ft. E. of tablet, 28 ft. N. of center line of highway,	•	
in right-of-way fence line; iron hub	3, 314, 3	31
Kings Mill, 3.0 mi. SW. of, 4.0 mi. NE. of White Deer, at milepost	•	
509, 28 ft. N. of highway, in right-of-way fence line; iron hub	3, 286. 9	94
White Deer, 3.0 mi. NE. of, at milepost 510, on S. side of track, in		
concrete post; standard tablet stamped "TC 24 1926" (recov-	,	
ered by U. S. C. & G. S. in 1935)	3, 298. 1	110
Reference mark, 140 ft. E. of tablet, in right-of-way fence line; iron		
hub	3, 296. 8	31
SE. angle of right-of-way fence; iron hub	3, 305. 3	37
White Deer, 1.0 mi. NE. of, at milepost 512, 28 ft. N. of center line of		
highway, in right-of-way fence line, in concrete post; standard tablet		
stamped "TC 25 1926" (recovered by U. S. C. & G. S. in 1935)	3, 342. 3	385
Reference mark, 490 ft. W. of tablet, in right-of-way fence line; iron		
hub.	3, 343. 3	36
White Deer, 200 ft. N. of milepost 513, in R. R. property line; iron		
hub	3, 365. 5	4

¹⁶ The figures of elevation given are preliminary figures based on the 1929 general adjustment; additional leveling may necessitate further adjustment.

¹⁷ In November 1939 this bench mark was reported destroyed.

White Deer, 0.2 mi. W., thence 0.7 mi. N. from milepost 513 at, at jog in NS. rd., 40 ft. E. of SW. corner of wheat field, in concrete post;	Feet
standard tablet stamped "TC 26 1926"	
Reference mark, 180 ft. E. of tablet, in fence line; iron hub	
White Deer, 0.2 mi. W., thence 1.7 mi. N. from, in NE. angle of cross-	
roads; iron hub	3, 366. 18
White Deer, 0.2 mi. W., thence 2.7 mi. N. from, in NE. angle of cross-	
roads, in concrete post; standard tablet stamped "TC 27 1926"	3, 361. 114
Reference mark, 260 ft. S. of tablet, on E. side of rd., in fence line;	
iron hub	3, 361. 62
White Deer, 0.2 mi. W., thence 3.7 mi. N. from, in NE. angle of junc-	
tion of T-rd. E.; iron hub	3, 355. 08
White Deer, 0.2 mi. W., thence 4.7 mi. N. from, on E. side of rd., in	
section corner, in concrete post; standard tablet stamped "TC 28	
1926"	3, 354, 258
	-,
CLIFFSIDE QUADRANGLE ¹⁸	
[Latitude 35°15′-35°30′; longitude 101°45′-102°00′]	
· POTTER COUNTY	
From Amarillo No. 3 quadrangle northwest and southwest along Fort Worth & Denver City Railway into Ady quadrangle (by J. M. Lawson in 1928)	
Amarillo, 5.4 mi. NW. of, 1.6 mi. SE. of Cliffside, 120 ft. NW. of milepost 341, 25 ft. SW. of track, 25 ft. NE. of R. R. right-of-way fence, in top of northernmost of three 7- by 7-in. oak posts driven in ground and used as spare rail carrier; copper nail and washer	
& G. S. in 1933)	3, 404. 914
Cliffside, opposite sta. sign; top of rail	
Cliffside, 350 ft. SE. of R. R. water tank at, 0.4 mi. SE. of milepost	
343, 60 ft. SE. of center of trestle over West Amarillo Creek, on top	
of S. corner of SE. concrete abutment; chiseled square	3 301 57
Cliffside, 0.7 mi. NW. of water tank at, about 0.4 mi. NW. of milepost	0, 001. 0
343, 42 ft. W. of center of crossing of private rd., 27 ft. N. of gate at	
· · · · · · · · · · · · · · · · · · ·	
edge of right-of-way fence, 12 ft. SE. of telegraph pole, in line with	0.410.04
row of poles, on top of section of rail set vertically; chiseled cross.	3, 412. 04
row of poles, on top of section of rail set vertically; chiseled cross. Cliffside, 1.5 mi. NW. of, 0.2 mi. NW. of milepost 344, at summit of	3, 412. 04
row of poles, on top of section of rail set vertically; chiseled cross.	3, 412. 04

3-in. pipe filled with concrete; top of rim______ 3, 410. 78

Sta No 4 L 1928" (recovered by U. S. C. & G. S. in 1933) ______ 3, 422. 296

telegraph pole, on sandstone rock; chiseled square........... 3, 424. 11

private rd.; top of NE. rail of main track_______3, 410. 6

Reference mark, 70 ft. SW. of tablet, 25 ft. SW. of track, 10 ft. E. of

Cliffside, 1.8 mi. NW. of, 0.5 mi. SE. of milepost 345, at crossing of

Cliffside, 2.6 mi. NW. of, 1.7 mi. SE. of Gentry, 12 ft. N. of stone marking cor. secs. 53, 54, 83, and 84, block 9, Beaty, Seale, & Forwood survey, 44 ft. N. of track, 44 ft. N. and 85 ft. E. from crossing of private rd., 6 ft. S. of corner post of T-fence N., at W. side of cut, at

¹⁸ The figures of elevation given are preliminary figures based on the 1929 general adjustment; additional leveling may necessitate further adjustment.

Gentry, 0.9 mi. E. of, 83 ft. S. of rd. crossing, 17 ft. N. and 25 ft. E. from gate across rd. at edge of R. R. right-of-way, 15 ft. SE. of first telegraph pole E. of rd., in line with row of telegraph poles, in concrete post; standard tablet stamped "5 L 1928 Texas" and "T T Sta No 5 L 1928" (recovered by U. S. C. & G. S. in 1933) Gentry, 0.2 mi. E. of sta., 70 ft. E. of point of switch, at W. side of section house, at center of rd. crossing; top of N. rail Gentry, 60 ft. W. of sta., 180 ft. W. of milepost 347, at center of rd. crossing; top of N. rail of main track Gentry, 0.5 mi. SW. of, 450 ft. N. and 60 ft. W. from rock marking cor. sec. 87, 88, 117, and 118, block 9, Beaty, Seale, & Forwood survey, 140 ft. SW. of point of switch, 60 ft. N. of corner post of T-fence S., 40 ft. S. of track, at edge of R. R. right-of-way, in line with row of telegraph poles and fence line S., in concrete post; standard tablet stamped "6 L 1928 Texas" and "T T Sta No 6 L 1928" (recovered by U. S. C. & G. S. in 1933)	Feet 3, 425.	4 . 78
From Ady quadrangle generally east along south side of Canadian River to point or U.S. Highway 87 about 1.8 miles southeast of bridge over Canadian River, thence southeast along highway and alternately west and south across country to poin near Cliffside on Fort Worth & Denver City Railway (by J. M. Lawson in 1928)	•	
Gunter & Munson survey, block G & M 5, about 0.5 mi. S. of N. corsecs. 42 and 43, 0.2 mi. W. of lone windmill, in line with NS. section-line fence, on top of knoll, on large rock set in place; chiseled circle	1 3, 116. l	52
Block G & M 5, about 160 ft. S. of N. cor. secs. 42 and 43, 90 ft. S. of corner of T-fence S., at small timber grove, in concrete post; standard tablet stamped "14 L 1928 Texas" and "T T Sta No 30 L 1928" Mouth of John Ray Creek, directly S. of, in river valley, 0.4 mi. along	3, 061. l	50 5
EW. fence line E. of standard tablet stamped "T T Sta No 30 L 1928," 12 ft. E. of gate across old rd., at slight angle in fence, on top of section of rail set vertically; chiseled crossBlock G & M 5, along N. side sec. 41, 350 ft. SW. of bank of Canadian	3, 049.	73
River, in river valley, 100 ft. N. of foot of bluff, 40 ft. S. and 80 ft. E. from corner post of fences E. and NW., in exposed root on N. side of 9-in. tree, westernmost of two lone and prominent cottonwood trees; copper nail and washer		88
Block G & M 5, along N. side sec. 41, 16 ft. below top of bluff, on W. side of mouth of Horse Creek, on large boulder; chiseled square	·	
Mouth of Horse Creek, on E. side of, on top of bluff; top of rock		
stamped "15 L 1928 Texas" and "T T Sta No 31 L 1928"		
of section of rail set vertically; chiseled cross		
Block G & M 5, along N. side sec. 36, 300 ft. S. of S. bank of river, just E. of angle to SW., 200 ft. S. of nearest tree of prominent grove of trees, 15 ft. E. of gate across old rd., at EW. fence line, in concrete post; standard tablet stamped "16 L 1928 Texas" and "T T Sta No		
32 L 1928"	3, 041. 8	63

Block G & M 5, near N. cor. secs. 34 and 36, 180 ft. E. of mouth of small creek, at bottom of river bank, in small grove of 25 trees, in root on N. side of 8-in. cottonwood tree; copper nail and washer	Feet	
Block G & M 5, along N. side sec. 34, 400 ft. W. of large lone cotton-		
wood tree at river edge, 100 ft. SW. of corner post of fences W. and		
SE. over bluff, near foot of bluff, on large boulder; chiseled square		26
Mouth of West Amarillo Creek, 200 ft. S. of, 30 ft. E. of edge of creek		
bank, 30 ft. NE. of corner post of fence angling across creek, 10 ft.		
NE. of tree in fence line, in concrete post; standard tablet stamped	2 016	600
"17 L 1928 Texas" and "T T Sta No 33 L 1928"	3, 010.	090
Reference mark, 280 ft. W. of mouth of West Amarillo Creek, at angle		
in river, at foot of bluff, on top of prominent rock ledge projecting		
into river; chiseled square	3, 011.	09
Mouth of East Amarillo Creek, 60 ft. E. of, 170 ft. S. of bank of Cana-		
dian River, 2 ft. SW. of corner post of fences S. and E., at gate in		
fence line, on flat rock set in place; chiseled square	3, 011.	92
Block G & M 5, near center of sec. 32, about 0.3 mi. E. of mouth of East		
Amarillo Creek, at foot of bluff, just S. of prairie rd., on top of pro-	•	
jecting slab of rock; standard tablet stamped "T T Sta No 34 L 1928		
Texas".	3, 029.	437
Block G & M 5, near S. side sec. 32, on top of bluff, between two gravel	•	
pits, in line with NS. row of telephone poles, 20 ft. N. of telephone		
pole directly E. of large stone crusher, 100 ft. E. of U. S. Highway 87,		
at head of draw from which mouth of East Amarillo Creek can be		
seen, on top of section of rail set vertically; chiseled cross	3 124	71
lock G & M 5, in sec. 35, 1.8 mi. SE. of bridge over Canadian River,	0, 121.	• •
about 600 ft. E. of NS. row of telephone poles, on summit of first		
high hill on S. side of river, 25 ft. W. of highway, 8 ft. S. of highway		
signpost 104, in concrete post; standard tablet stamped "18 L 1928	0 164	679
Texas" and "T T Sta No 35 L 1928" (recovered in 1933)	3, 164.	0/3
Reference mark, 1,000 ft. S. of tablet, between two hills, 5 ft. W. of		
highway, at corrugated iron pipe culvert No. 30; top of W. end of	0 1 40	~ =
culvert	3, 143.	05
Canadian River bridge, 2.7 mi. SE. of, 70 ft. S. and 25 ft. E. from junc-		
tion of rd. W., 30 ft. SW. of highway, 8 ft. NW. of highway signpost,		
on top of section of rail set vertically; chiseled cross (recovered in		
1933)	3, 214.	60
Canadian River bridge, 3.3 mi. SE. of, in NE¼ sec. 210, block 2, Beaty,		
Seale, & Forwood survey, at summit of hill, 40 ft. W. of highway, in		
line with row of telephone poles angling across highway, 6 ft. S. of		
first pole S. of highway, on top of section of rail set vertically; chis-		
eled cross	3, 267.	34
Canadian River bridge, 3.8 mi. SE. of, 80 ft. S. and 15 ft. E. from		
junction of rd. W. to gravel pit, 35 ft. SW. of highway, in concrete		
post; standard tablet stamped "19 L 1928 Texas" and "T T Sta		
No 36 L 1928"	3, 266.	517
Reference mark, 340 ft. SE. of tablet, at corrugated iron culvert; top	.,	
of W. end of culvert	3, 255.	85
Canadian River bridge, 4.4 mi. SE. of, between two hills, 15 ft. E. of	J, 200.	J J
	2 957	56
highway, on top of E. concrete head wall of culvert; chiseled square_	0, 201.	90
Canadian River bridge, 5.0 mi. SE. of, 13.8 mi. N. of Potter County		
courthouse in Amarillo, 0.7 mi. NW. of bridge over East Amarillo		
Creek, 400 ft. NW. of curve in highway, 20 ft. E. of highway, at		
30-in. corrugated iron culvert, southernmost of two highway cul-		
verts; top of E. end of culvert	3, 257.	93

Amarillo, 13.1 mi. N. of, about 700 ft. W. of E. cor. secs. 205 and 208,		
block 2, Beaty, Seale, & Forwood survey, 200 ft. N. and 30 ft. W.		
from center of bridge over East Amarillo Creek, 130 ft. N. of store		
at end of highway pavement, in concrete post; standard tablet	Feet	
stamped "20 L 1928 Texas"	3, 213.	170
Reference mark, on top of NE. corner of NE. concrete abutment of		
bridge; chiseled square	3, 210.	63
Amarillo, 12.0 mi. N. of, about 500 ft. S. of E. cor. secs. 204 and 205,		
block 2, Beaty, Seale, & Forwood survey, 370 ft. S. of fences E. and		
W., 15 ft. W. of center line of paving, on top of W. concrete head	2 001	00
wall of culvert; chiseled square (recovered in 1933)Amarillo, 12.0 mi. N. and 0.6 mi. W. from, in line with row of telephone	3, 291.	40
poles, 5 ft. W. of pole, 10 ft. W. of gate in EW. fence, 3 ft. S. of fence,		
on top of section of rail set vertically; chiseled cross	3 933	13
Amarillo, 12.0 mi. N. and 1.0 mi. W. from, 125 ft. S. of stone and iron	0, 200.	10
stake at cor. secs. 203, 204, 205, and 206, block 2, Beaty, Seale, &		
Forwood survey, 48 ft. W. of telephone line S., 8 ft. E. of telephone		
line N., in line with EW. row of poles, in concrete post; standard		
tablet stamped "21 L 1928 Texas" and "T T Sta No 19 L 1928"	3. 268.	533
Amarillo, 11.0 mi. N. and 1.0 mi. W. from, 50 ft. W. of row of tele-	0, 200.	000
phone poles, at iron stake in center of pile of stones marking cor.		
secs. 201, 202, 203, and 204, block 2, Beaty, Seale, & Forwood		
survey; top of stake	3, 285.	10
Amarillo, 10.8 mi. N. and 1.0 mi. W. from, 0.25 mi. S. of cor. secs.	•	
201, 202, 203, and 204, block 2, Beaty, Seale, & Forwood survey,		
25 ft. S. and 1 ft. E. from corner post of fences S. and NW., 20 ft.		
N. of telephone pole, 20 ft. S. of gate across prairie rd., in line with		
row of poles, on top of section of rail set vertically; chiseled cross	3, 288.	15
Amarillo, 10.0 mi. N. and 1.0 mi. W. from, 300 ft. S. of ranch house,		
along NS. fence, in line with distant fence W., 25 ft. W. of rd.,		
95 ft. E. of telephone line, in concrete post; standard tablet stamped		
"22 L 1928 Texas" and "T T Sta No 20 L 1928"	3, 297.	175
Amarillo, 10.0 mi. N. and 1.5 mi. W. from, 1 ft. S. and 10 ft. E. from		
corner gatepost, in EW. fence line, on top of section of rail set	0 000	10
vertically; chiseled cross	3, 389.	10
Amarillo, 10.0 mi. N. and 2.0 mi. W. from, at cor. secs. 199, 202, 215, and 216 block 2. Postry Scale & Forward survey, 220 ft F of N. S.		
and 216, block 2, Beaty, Seale, & Forwood survey, 320 ft. E. of NS. prairie rd., 9 ft. S. of telephone pole, in line with row of poles, on		
top of section of rail set vertically; chiseled cross	3. 427.	43
Amarillo, 10.0 mi. N. and 3.0 mi. W. from, near E. cor. secs. 2 and 3,	o, 1 2 11	
block 6, Beaty, Seale, & Forwood survey, 130 ft. E. of corner post		
of T-fence S., 6 ft. W. of corner post of T-fence N., in concrete		
post; standard tablet stamped "23 L 1928 Texas" and "T T Sta		
No 21 L 1928"	3, 354.	260
Amarillo, 10.0 mi. N. and 4.0 mi. W. from, near cor. secs. 2, 3, 6, and		
7, block 6, Beaty, Seale, & Forwood survey, 20 ft. N. of creek bank,		
150 ft. W. of angle to N. in creek, 10 ft. S. of EW. fence, in root on		
W. side of lone cottonwood tree; copper nail and washer	3, 220.	00
Amarillo, 9.0 mi. N. and 4.0 mi. W. from, 25 ft. N. of rock in ground		
marking cor. secs. 3, 4, 5, and 6, block 6, Beaty, Seale, & Forwood		
survey, on top of hill range in pasture, in concrete post; standard		
tablet stamped "24 L 1928 Texas" and "T T Sta No 22 L 1928"	3, 296.	300

SPIRIT LEVELING IN TEXAS, PART 2, PANHANDLE		
Reference mark, 25 ft. S. of tablet, at section corner; top of rockAmarillo, 8.0 mi. N. and 4.0 mi. W. from, 3.7 mi. N. and 1.0 mi. E. from Cliffside, 5 ft. W. of rock marking S. cor. secs. 4 and 5, block 6, Beaty, Seale, & Forwood survey, 1 ft. N. and 7 ft. E. from corner post of T-fence S., on top of section of rail set vertically; chiseled cross		
Cliffside, 3.7 mi. N. of, 20 ft. W. of rock marking S. cor. secs. 5 and 12, block 6, Beaty, Seale, & Forwood survey, 1 ft. S. and 4 ft. E. from corner post of cross fence, in concrete post; standard tablet stamped		_
"25 L 1928 Texas" and "T T Sta No 23 L 1928"		
Beaty, Seale, & Forwood survey; head of bolt	3, 392. 92	
"T T Sta No 24 L 1928" Cliffside, 1.9 mi. N. of, 420 ft. N. of stone at cor. secs. 19, 20, 49, and 50, block 9, Beaty, Seale, & Forwood survey, in line with T-fence	3, 395. 364	1
N., 40 ft. E. of fence S., 35 ft. E. of gate, on top of section of rail set vertically; chiseled cross		
Seale, & Forwood survey, 150 ft. W. of rd. across pasture, 8 ft. W. of corner post of fences W. and S., in line with fence W., on top of		
Seale, & Forwood survey, 150 ft. W. of rd. across pasture, 8 ft. W. of corner post of fences W. and S., in line with fence W., on top of section of rail set vertically; chiseled cross From point 12 miles north and 1 mile west from Amarillo west across country to Fuqua ranch, thence generally west and southwest along	3, 375. 28	
Seale, & Forwood survey, 150 ft. W. of rd. across pasture, 8 ft. W. of corner post of fences W. and S., in line with fence W., on top of section of rail set vertically; chiseled cross	3, 375. 28	
Seale, & Forwood survey, 150 ft. W. of rd. across pasture, 8 ft. W. of corner post of fences W. and S., in line with fence W., on top of section of rail set vertically; chiseled cross	3, 399. 45	
Seale, & Forwood survey, 150 ft. W. of rd. across pasture, 8 ft. W. of corner post of fences W. and S., in line with fence W., on top of section of rail set vertically; chiseled cross	3, 399. 45 3, 385. 27	7
Seale, & Forwood survey, 150 ft. W. of rd. across pasture, 8 ft. W. of corner post of fences W. and S., in line with fence W., on top of section of rail set vertically; chiseled cross	3, 399. 45 3, 385. 27 3, 291. 87	7
Seale, & Forwood survey, 150 ft. W. of rd. across pasture, 8 ft. W. of corner post of fences W. and S., in line with fence W., on top of section of rail set vertically; chiseled cross	3, 399. 45 3, 385. 27 3, 291. 87 3, 278. 71	7

Fuqua ranch house, 0.4 mi. by rd. NW. of, near NW. cor. sec. 8, block 6, Beaty, Seale, & Forwood survey, 670 ft. NW. of crossing of West Amarillo Creek, 60 ft. S. and 12 ft. W. from gate across rd., 5 ft. S. of corner post of T-fence W., at jog in NS. fence line, on top of section of rail set vertically; chiseled cross	Feet 3, 194.	07
concrete post; standard tablet stamped "28 L 1928 Texas" and "T T Sta No 17 L 1928"	3, 248.	653
line, at top of hill, 12 ft. N. of prairie rd., in pasture, on top of section of rail set vertically; chiseled cross		13
directly S. of three-way rd. fork, in concrete post; standard tablet stamped "29 L 1928 Texas" and "T T Sta No 16 L 1928" Fuqua ranch house, 3.9 mi. SW. of, at helium division gas well No. 1, in NW¼ sec. 18, block 6, Beaty, Seale, & Forwood survey, 10 ft. N. and 7 ft. E. from NE. leg of derrick, 2 ft. S. of fence around overflow basin, in concrete post; standard tablet stamped "30 L 1928 Texas" and		740
"T T Sta No 15 L 1928". Fuqua ranch house, 4.2 mi. SW. of, at cor. secs. 17, 18, 23, and 24, block 6, Beaty, Seale, & Forwood survey, 1,460 ft. NW. of helium gas well, 1 ft. S. and 4 ft. W. from corner post of fences S. and W., on top of	3, 429.	
section of rail set vertically; chiseled cross		
From Amarillo No. 3 quadrangle northeast along Chicago, Rock Island & Gulf Railway and north along road to point 6.3 miles northeast and 2.2 miles north from Amarillo, thence west across country and north, northeast, and west along roads to U. S. Highway 87, thence north 1.9 miles to point 12 miles north of Amarillo (by C. S. Carney in 1933)		
Amarillo, 5.7 mi. along R. R. NE. of, 35 ft. S. of center of junction of rd. S. and State Highway 136, on top of SW. end of concrete culvert; chiseled square	3, 644.	67
[Line jogs into Amarillo No. 1 quadrangle]		
Bivins ranch house, 4.7 mi. along rd. SW., thence 1.0 mi. across country E. from, in SE. cor. sec. 99, block 2, Adams, Beaty, & Moulton survey, 2.2 ft. W. of NS. fence line, 7 in. N. of EW. fence line, set in concrete; top of steel rod	3, 520.	58
Bivins ranch house, 4.7 mi. SW. of, 5.9 mi. N. and 3.0 mi. E. from Amarillo, at cor. secs. 99, 100, 129, and 130, block 2, Adams, Beaty, & Moulton survey, 21 ft. E. of center of cattle guard and NS. rd., 2.8 ft. W. of fence N., in EW. fence line, on boulder; chiseled		
square	3, 547.	83

Bivins ranch house, 3.8 mi. SW. of, at S. cor. secs. 9 and 10, block 1, Beaty, Seale, & Forwood survey, and N. cor. secs. 99 and 130, block 2, Adams, Beaty, & Moulton survey, 20 ft. W. of cattle guard across rd., at angle to NE. in rd., in fence corner, in concrete post; standard tablet stamped "T T 4 L 1933 3522" Reference mark, 83 ft. N. of tablet, 39 ft. W. of center line of rd., at S. end of wire gate in fence N., on boulder; chiseled square Bivins ranch house, 2.6 mi. SW. of, in NE½ sec. 9, block 1, Beaty, Seale, & Forwood survey, on bedrock bottom of Amarillo Creek, 14 ft. W.	3, 521.	05
of center line of rd.; chiseled square	3, 413.	72
[Line jogs into Amarillo No. 1 quadrangle]		
Bivins ranch house, 765 ft. S. of, 10.0 mi. N. and 4.5 mi. E. from Amarillo, on top of E. side of concrete cattle guard; chiseled square_Bivins ranch house, 0.9 mi. N. of, near quarter corner between secs. 41 and 55, block 1, Beaty, Seale, & Forwood survey, at S. end of offset in rd., 18.5 ft. E. of center of cattle guard, 11 in. N. of fence line, set	3, 455.	35
in concrete; top of steel rod	3, 480.	47
1933 3433" (recovered by U. S. C. & G. S. in 1935)	3, 432.	933
Reference mark, 70 ft. S. of tablet, 35 ft. S. of corner of T-fence E., in NS. fence line, set in concrete; top of steel rod	3, 433.	70
ridge, 25 ft. S. of center line of rd., set in concrete; top of steel rod. Gluck siding, 1.4 mi. NE. of S. end of, on line between secs. 52 and 53, block 1, Beaty, Seale, & Forwood survey, 28 ft. N. of center of wire	3, 446.	52
gate, 1 ft. E. of fence line, set in concrete; top of steel rod Gluck siding, 0.7 mi. NE. of S. end of, 40 ft. N. and 150 ft. E. from ranch house, 13 ft. N. of center line of rd., 8.5 ft. E. of SW. corner of		33
cultivated field, in fence line, set in concrete; top of steel rod Gluck siding, at S. end of, 10.1 mi. along highway N., thence 1.3 mi. NE. from Amarillo, 100 ft. S. of grade crossing, 100 ft. S. along W right-of-way fence from cattle guard across rd., outside fence, in concrete post; standard tablet stamped "T T 7 L 1933 3313" (re-	3, 282.	03
covered by U. S. C. & G. S. in 1934)		
Amarillo, 10.1 mi. N., thence 0.7 mi. NE. from, 12 ft. S. of center line of rd., 21 ft. W. of bottom of drain, set in concrete; top of steel rod. Amarillo, 10.1 mi. N. of, 101 ft. E. of center of junction of rd. and U. S.	3, 354.	10
Highway 87, 36 ft. S. of center line of rd., 7 in. E. of fence line, set in concrete; top of steel rod	3, 415.	
From point 0.9 mile north of Bivins ranch house along road north and northwest to mouth of Bonita Creek, thence west along south side of Canadian River to U. S. Highway 87, thence southeast 1.8 miles (by C. S. Carney in 1933)		
Bivins ranch house, 1.9 mi. N. of, on top of W. concrete base of cattle guard; chiseled square	3, 457.	90

[Line jogs into Amarillo No. 1 quadrangle]

•			
Bivins ranch house, 3.8 mi. by rd. NW. of, 4.9 mi. SE. of headquarters of L X ranch, 19.3 ft. NE. of center line of rd., 1 ft. N. of fence, set		Feet	
in concrete; top of steel rod	3,	428.	39
L X ranch headquarters, 4.0 mi. SE. of, 65 ft. NE. of center line of rd., on top and near point of finger ridge, set in concrete; top of steel rod. L X ranch headquarters, 3.1 mi. SE. of, 10 ft. N. and 25 ft. W. from rd. fork, on N. side of large mesquite tree, in concrete post; standard	3,	380.	56
tablet stamped "T T 9 L 1933 3337"	3	336	501
Reference mark, 25 ft. N. and 52 ft. W. from tablet, in root of lone mes-	υ,	000.	001
quite tree; copper nail and washer	3.	336.	78
L X ranch headquarters, 2.3 mi. SE. of, 150 ft. S. of bottom of small drain crossing rd., 15 ft. E. of center line of rd., 5 ft. S. of lone mes-	·		
quite tree, set in concrete; top of steel rodL X ranch headquarters, 1.5 mi. SE. of, on E. side of gate across rd. to ranch house, in bottom, in concrete post; standard tablet stamped			
"T T 10 L 1933 3055"	3,	054.	875
Reference mark, 410 ft. W. of tablet, 112 ft. N. of EW. fence line, in crotch of hackberry tree, southernmost tree in clump; copper nail and washer	2	056	5 /
L X ranch headquarters, 0.7 mi. S. of, 1.4 mi. SE. of mouth of Bonita Creek, on W. bank of creek, 35.5 ft. S. of center line of rd. to ranch	٠,	000.	. 04
house, in NS. fence line, set in concrete; top of steel rod			
1 ft. SW. of large white boulder, set in concrete; top of steel rod Mouth of Bonita Creek, 1.1 mi. W. of, 4.4 mi. E. of Canadian River bridge on U. S. Highway 87, 165 ft. S. of S. edge of river stream bed,	2,	979.	. 66
in corner of fences NE. and W., in root on S. side of 30-in. cotton-			
wood tree; copper nail and washer	2,	974.	01
Canadian River bridge, 3.7 mi. E. of, at rocky point on S. side of river,			
2 ft. above water level, on rock outcrop; chiseled square	2,	975.	21
Canadian River bridge, 2.5 mi. E. of, near center of low island in stream bed, in bole of 8-in. leaning cottonwood tree; copper nail and			
washer	2,	985.	39
Canadian River bridge, 1.4 mi. E. of, 160 ft. E. of mouth of drain, 115			
ft. NE. of white stake, on S. bank of river, in root of 18-in. cotton-	_		=0
wood tree; copper nail and washer.	z,	992.	79
Canadian River bridge, at S. end of, 33 ft. W. of center line of highway, on concrete post with bronze plate marked "FAP 585-A Sta 996+16.7 Built 1931"; chiseled square	3	009	35
Canadian River bridge, 1.1 mi. SE. of, 115 ft. N. of center line of pri-	Ο,	000.	00
vate rd. crossing highway, 50 ft. W. of center line of highway, on			
concrete right-of-way marker; chiseled square	3,	086.	81
From mouth of Bonita Creek northeast along east side of Canadian River into Fourways quadrangle (by C. S. Carney in 1933)			
Mouth of Bonita Creek, 1.0 mi. NE. of, on S. bank of Canadian River,			
in bottom of small wash, in fence line, in crotch of 18-in. hackberry			
tree; copper nail and washer	2,	969.	12
Mouth of Bonita Creek, 1.8 mi. NE. of, on E. side of wide sandy-			
bottom canyon, in crotch of 9-in. cottonwood tree; copper nail and	_		
washer	2,	965.	25

Mouth of Bonita Creek, 2.9 mi. NE. of, 50 ft. E. of river, 65 ft. N. of rocky point, 52 ft. W. of fence corner, on SW. corner of base of large limestone boulder; chiseled square	Feet 2, 958.	
From point 1.8 miles southeast of Canadian River bridge on U. S. Highway 87 northwest along highway 4.3 miles into Fourways quadrangle (by S. R. Archer in 1933)		
Canadian River bridge, on E. side of N. end of, at concrete steps leading to spring under N. concrete abutment, near center of upper step; chiseled square	3, 015.	
1933"		
From mouth of Bonita Creek northwest across country and along road into Fourways quadrangle (by C. S. Carney in 1934)		
Mouth of Bonita Creek, 1.0 mi. in air line NW. of, 1.3 mi. N. and 1.0 mi. W. from L X ranch headquarters, on top of bluff, 16 ft. N. of large cairn, in limestone outcrop; standard tablet stamped "T T 11	0.000	050
L 1933 3202" Reference mark, 108 ft. W. of tablet, 20 ft. N. of bluff, on limestone outcrop; chiseled square		
Mouth of Bonita Creek, 1.6 mi. in air line NW. of, on top of bluff, 30 ft. N. of center line of rd., 6 ft. N. of rock pile, in root of mesquite tree; copper nail and washer		
DUMAS NO. 1 QUADRANGLE 19		
[Latitude 35°45′-36°00′; longitude 101°30′-101°45′]		
HUTCHINSON AND MOORE COUNTIES		
From Plemons quadrangle along road west to point 1 mile east of Beede, thence south into Sanford quadrangle (by E. E. Harris in 1927)		
Beede, 7.5 mi. E. of, at store of J. O. Hatcher, on N. side of right-angle turn in highway, 3 ft. S. and 25 ft. W. from corner fence post, in concrete post; standard tablet stamped "H 15 1927"	3, 353. 3 3, 351. 6	18 64
16 1927"Beede, 4.6 mi. E. of, about 0.5 mi. NE. of Marland well, on N. side of	3, 334. 8	586
rd.; iron hub		
post; standard tablet stamped "H 17 1927"		
If The flavore of elevation given are preliminary flavors based on the 1000 general adjustmen	iti additic	าทลใ

¹⁹ The figures of elevation given are preliminary figures based on the 1929 general adjustment; additional leveling may necessitate further adjustment.

Beede, 2.7 mi. E. of, on N. side of rd., at angle in fence line, 18 in. N. of	Feet	
corner fence post, in line with fence N.; iron hub	3, 372. 82	2
Beede, 1.8 mi. E. of, 30 ft. N. and 60 ft. E. from right-angle turn in rd.		
to N., in concrete post; standard tablet stamped "H 18 1927"	3, 383. 54	3
Beede, 1.0 mi. E. and 0.5 mi. S. from, 6.1 mi. N. of Bar X ranch house,	,	
at E. gate to ranch, in NW. corner of rd. fork; iron hub	3, 384. 35	;
Bar X ranch house, 5.4 mi. N. of, at SE. corner of another ranch, in		
L-angle in fence line, 2 ft. from each fence; iron hub	3, 382. 64	:
Bar X ranch house, 4.6 mi. N. of, in SW. angle of crossroads, 25 ft.		
from each rd., in concrete post; standard tablet stamped "H 20		
1927"	3, 377. 69	1
Bar X ranch house, 4.0 mi. N. of, 50 ft. W. of rd., 1 ft. N. of fence line	0 0 0 0 0 0	
crossing rd.; iron hub	3, 359. 16	
Bar X ranch house, 3.0 mi. N. of, in small clearing, 30 ft. W. of rd.,		
just N. of prominent cattle path W. to water hole, in concrete post;	2 250 000	_
standard tablet stamped "H 21 1927"	3, 358. 82	2
Bar X ranch house, 1.9 mi. N. of, 25 ft. N. and 50 ft. W. from cross-	2 200 00	
roads; top of hubBar X ranch house, in SE. corner of yard of, on W. side of rd., in	3, 300. 92	
L-angle in fence line, 3 ft. from each fence, in concrete post; stand-		
ard tablet stamped "H 22 1927"	2 267 99	_
Reference mark, 150 ft. N.15° W. of tablet, in NE. corner of yard;	0, 007. 20	O
iron hub.	3 367 40	
Bar X ranch house, 1.1 mi. S. of, in wye of rd. fork, 150 ft. from fork,	0, 501. 40	'
in NW. corner of small enclosure for engine at water well; iron hub_	3. 236. 26	
Bar X ranch house, 1.5 mi. S. of, 0.5 mi. S. of water well, at summit	0, 200. 20	
of grade, 60 ft. W. of rd., in concrete post; standard tablet stamped		
"H 23 1927"	3, 276, 51,	5
Bar X ranch house, 2.3 mi. S. of, at summit of grade, 40 ft. W. of rd.;		•
iron hub	3, 217, 26	٠.
Bar X ranch house, 3.1 mi. S. of, 40 ft. W. of rd., 1 ft. N. of fence line	,	•
crossing rd.; iron hub	3, 191. 11	
Bar X ranch house, 3.8 mi. S. of, in center of triangle formed by	•	
junction of rd. W., 60 ft. from each rd., in concrete post; standard		
tablet stamped "H 24 1927"	3, 174, 618	8
Reference mark, 137.1 ft. N.20°W. of tablet, 2 ft. W. of small mes-		
quite bush, 4 in. underground; iron hub	3, 173. 59	
Bar X ranch house, 5.0 mi. S. of, on sage-brush summit, 35 ft. E. of		
rd.; iron hub	3, 179. 19	
From point 1 mile east and 0.5 mile south from Beede generally west along roads by way of Beede into Dumas No. 2 quadrangle (by E. E. Harris in 1927)	•	
Beede, on S. side of right-angle turn in rd. at, 50 ft. W. of store, in		
L-angle in fence line, 3 ft. from each fence, in concrete post; stand-	•	
ard tablet stamped "H 19 1927" (recovered by U. S. C. & G. S. in		
1935)	3, 390. 820)
Reference mark, 185 ft. N. of tablet; iron hub		
Beede, 1.0 mi. W. of, on N. side of rd., in NE. corner of T-angle in		
fence line, 3 ft. from each fence; iron hub.	3, 397. 78	
Beede, 2.1 mi. W. of, between two culverts, 200 ft. S. of rd., 2 ft. N.	•	
of fence line, 2 ft. E. of gatepost, in concrete post; standard tablet		
	3, 409. 193	3
Reference mark, 56.3 ft. E. of tablet, 1 ft. N. of fence line, 3 in. under		
ground; iron hub	2 106 60	

iron hub				
Beede, 4.1 mi. W. of, on N. side of rd., 2 ft. N. and 12 ft. W. from T-angle in fence line, in concrete post; standard tablet stamped "H 40 1927"	Beede, 3.1 mi. W. of, on N. side of rd., 40 ft. E. of rd. N. through gate;	_		
T-angle in fence line, in concrete post; standard tablet stamped "H 40 1927" 3, 438. 404 Reference mark, 90 ft. E. of tablet, 1 ft. N. of fence line, 4 in. under ground; iron hub. 3, 437. 02 Beede, 5.1 mi. W. of, in NE. corner of junction of T-rd. N., in 1-angle in fence line, 2 ft. from each fence; iron hub. 3, 448. 43 Beede, 6.1 mi. W. of, on S. side of rd., in L-angle in fence line, 2 ft. from each fence; iron hub. 5, 464. 65 From Beede north along road into Ideal quadrangle (by E. E. Harris in 1927) Beede, 1.1 mi. N. of, 650 ft. N. of Morton ranch house, on E. side of rd. junction, at angle in fence line; iron hub. 8, 378. 30 Beede, 2.4 mi. N. of, in SE. corner of crossroads, in concrete post; standard tablet stamped "H 58 1927" (recovered by U. S. C. & G. S. in 1935) 8, 382. 72 Beede, 3.8 mi. N. of, on W. side of rd., 30 ft. W. of cattle guard; 1 ft. S. of fence line; iron hub. 8, 3, 369. 10 Beede, 4.7 mi. N. of, 30 ft. W. of angle in rd. at junction of dim rd., in concrete post; standard tablet stamped "H 59 1927" 3, 345. 991 Reference mark, 90.8 ft. N.35°E. of tablet, 4 in. under ground; iron hub. 8, 3, 345. 87 Beede, 5.2 mi. N. of, about 1,000 ft. NW. of McDowell ranch house, on W. side of angle in rd., at fence corner, 50 ft. N. of gate; iron hub. 9, 3, 345. 87 Beede, 6.8 mi. N. of, in SE. angle of crossroads, 30 ft. from each rd., in concrete post; standard tablet stamped "H 60 1927" 3, 359. 046 Reference mark, 126.6 ft. S. of tablet, 4 in. under ground; iron hub. 1, 3, 359. 046 Reference mark, 126.6 ft. S. of tablet, 4 in. under ground; iron hub. 1, 3, 359. 046 Reference mark, 126.6 ft. S. of tablet, 4 in. under ground; iron hub. 1, 3, 359. 046 Reference mark, 126.6 ft. S. of tablet, 4 in. under ground; iron hub. 1, 3, 359. 046 Reference mark, 126.6 ft. S. of tablet, 4 in. under ground; iron hub. 1, 3, 359. 046 Reference mark, 126.6 ft. S. of tablet, 4 in. under ground; iron hub. 1, 3, 359. 046 Reference mark, 126.6 ft. S. of tablet, 4 in. under ground; iron hub. 1, 3, 359. 046 Refe		3,	422.	75
"H 40 1927"				
Reference mark, 90 ft. E. of tablet, 1 ft. N. of fence line, 4 in. under ground; iron hub		9	190	404
Beede, S.1 mi. W. of, in NE. corner of junction of T-rd. N., in L-angle in fence line, 2 ft. from each fence; iron hub		ο,	400.	404
Beede, 5.1 mi. W. of, in NE. corner of junction of T-rd. N., in L-angle in fence line, 2 ft. from each fence; iron hub		3	437	02
in fence line, 2 ft. from each fence; iron hub		Ο,	101.	02
Beede, 6.1 mi. W. of, on S. side of rd., in L-angle in fence line, 2 ft. from each fence; iron hub		3,	448.	43
From Beede north along road into Ideal quadrangle (by E. E. Harris in 1927) Beede, 1.1 mi. N. of, 650 ft. N. of Morton ranch house, on E. side of rd. junction, at angle in fence line; iron hub		-,		
Beede, 1.1 mi. N. of, 650 ft. N. of Morton ranch house, on E. side of rd. junction, at angle in fence line; iron hub	from each fence; iron hub	3,	464.	65
rd. junction, at angle in fence line; iron hub				
rd. junction, at angle in fence line; iron hub	Beede, 1.1 mi, N. of, 650 ft, N. of Morton ranch house, on E. side of			
Beede, 2.4 mi. N. of, in SE. corner of crossroads, in concrete post; standard tablet stamped "H 58 1927" (recovered by U. S. C. & G. S. in 1935)		3.	378.	30
standard tablet stamped "H 58 1927" (recovered by U. S. C. & G. S. in 1935) Reference mark, 88.9 ft. S. 20° W. of tablet, 4 in. under ground; iron hub	Beede, 2.4 mi. N. of, in SE. corner of crossroads, in concrete post;	-,		
& G. S. in 1935)	standard tablet stamped "H 58 1927" (recovered by U. S. C.			
Reference mark, 88.9 ft. S. 20° W. of tablet, 4 in. under ground; iron hub	& G. S. in 1935)	3,	383.	632
Beede, 3.8 mi. N. of, on W. side of rd., 30 ft. W. of cattle guard, 1 ft. S. of fence line; iron hub	Reference mark, 88.9 ft. S. 20° W. of tablet, 4 in. under ground; iron			
S. of fence line; iron hub Beede, 4.7 mi. N. of, 30 ft. W. of angle in rd. at junction of dim rd., in concrete post; standard tablet stamped "H 59 1927" Reference mark, 90.8 ft. N.35°E. of tablet, 4 in. under ground; iron hub 3, 345. 87 Beede, 5.2 mi. N. of, about 1,000 ft. NW. of McDowell ranch house, on W. side of angle in rd., at fence corner, 50 ft. N. of gate; iron hub 3, 290. 94 Beede, 6.8 mi. N. of, in SE. angle of crossroads, 30 ft. from each rd., in concrete post; standard tablet stamped "H 60 1927" 3, 359. 046 Reference mark, 126.6 ft. S. of tablet, 4 in. under ground; iron hub 3, 358. 35 From Fourways quadrangle 10 near mouth of Grapevine Creek alternately northeast and southeast along roads and across country into Sanford quadrangle at point 1.3 miles west of Moore-Hutchinson county line (by F. J. Fricke in 1934) Block M 1, sec. 5, 150 ft. S. of junction of Grapevine and Big Blue Creeks, 5 ft. S. of five-forked cottonwood tree, in root on W. side of 18-in. cottonwood tree; copper nail and washer [Line jogs into Sanford quadrangle] J. S. Johnson survey, 80 ft. W. of creek bank, 45 ft. S. of center line of rd., in root on N. side of 36-in. cottonwood tree; copper nail and washer 3, 053. 84 J. S. Johnson survey, 10 ft. S. of center of cattle guard in NS. fence line, 20 ft. N. of center of gate, under fence, set flush with ground and surrounded by rocks; top of iron rod 3, 174. 17 I. & G. N. R. R. Co. survey, in sec. 2, at intersection of EW. telephone line and NS. fence line, 7 ft. W. of telephone pole, in fence line, set flush with ground; top of iron rod 3, 186. 38	hub	3,	382.	72
Beede, 4.7 mi. N. of, 30 ft. W. of angle in rd. at junction of dim rd., in concrete post; standard tablet stamped "H 59 1927"	Beede, 3.8 mi. N. of, on W. side of rd., 30 ft. W. of cattle guard, 1 ft.			
Reference mark, 90.8 ft. N.35°E. of tablet, 4 in. under ground; iron hub		3,	369.	10
Reference mark, 90.8 ft. N.35°E. of tablet, 4 in. under ground; iron hub	Beede, 4.7 mi. N. of, 30 ft. W. of angle in rd. at junction of dim rd., in	_		
Beede, 5.2 mi. N. of, about 1,000 ft. NW. of McDowell ranch house, on W. side of angle in rd., at fence corner, 50 ft. N. of gate; iron hub 3, 290. 94 Beede, 6.8 mi. N. of, in SE. angle of crossroads, 30 ft. from each rd., in concrete post; standard tablet stamped "H 60 1927"		3,	345.	991
Beede, 5.2 mi. N. of, about 1,000 ft. NW. of McDowell ranch house, on W. side of angle in rd., at fence corner, 50 ft. N. of gate; iron hub 3, 290. 94 Beede, 6.8 mi. N. of, in SE. angle of crossroads, 30 ft. from each rd., in concrete post; standard tablet stamped "H 60 1927"		9	945	O7
W. side of angle in rd., at fence corner, 50 ft. N. of gate; iron hub 3, 290. 94 Beede, 6.8 mi. N. of, in SE. angle of crossroads, 30 ft. from each rd., in concrete post; standard tablet stamped "H 60 1927"		ο,	340 .	01
Beede, 6.8 mi. N. of, in SE. angle of crossroads, 30 ft. from each rd., in concrete post; standard tablet stamped "H 60 1927"		3	290	94
in concrete post; standard tablet stamped "H 60 1927"		Ο,	200.	01
Reference mark, 126.6 ft. S. of tablet, 4 in. under ground; iron hub 3, 358. 35 From Fourways quadrangle 10 near mouth of Grapevine Creek alternately northeast and southeast along roads and across country into Sanford quadrangle at point 1.3 miles west of Moore-Hutchinson county line (by F. J. Fricke in 1934) Block M 1, sec. 5, 150 ft. S. of junction of Grapevine and Big Blue Creeks, 5 ft. S. of five-forked cottonwood tree, in root on W. side of 18-in. cottonwood tree; copper nail and washer		3.	359.	046
From Fourways quadrangle 30 near mouth of Grapevine Creek alternately northeast and southeast along roads and across country into Sanford quadrangle at point 1.3 miles west of Moore-Hutchinson county line (by F. J. Fricke in 1934) Block M 1, sec. 5, 150 ft. S. of junction of Grapevine and Big Blue Creeks, 5 ft. S. of five-forked cottonwood tree, in root on W. side of 18-in. cottonwood tree; copper nail and washer				
and southeast along roads and across country into Sanford quadrangle at point 1.3 miles west of Moore-Hutchinson county line (by F. J. Fricke in 1934) Block M 1, sec. 5, 150 ft. S. of junction of Grapevine and Big Blue Creeks, 5 ft. S. of five-forked cottonwood tree, in root on W. side of 18-in. cottonwood tree; copper nail and washer		,		
Block M 1, sec. 5, 150 ft. S. of junction of Grapevine and Big Blue Creeks, 5 ft. S. of five-forked cottonwood tree, in root on W. side of 18-in. cottonwood tree; copper nail and washer	and southeast along roads and across country into Sanford quadrangle at point 1.3			
Creeks, 5 ft. S. of five-forked cottonwood tree, in root on W. side of 18-in. cottonwood tree; copper nail and washer	• • • • • • • • • • • • • • • • • • • •			
of 18-in. cottonwood tree; copper nail and washer				
[Line jogs into Sanford quadrangle] J. S. Johnson survey, 80 ft. W. of creek bank, 45 ft. S. of center line of rd., in root on N. side of 36-in. cottonwood tree; copper nail and washer		3	052	50
J. S. Johnson survey, 80 ft. W. of creek bank, 45 ft. S. of center line of rd., in root on N. side of 36-in. cottonwood tree; copper nail and washer	·	Ο,	002.	00
of rd., in root on N. side of 36-in. cottonwood tree; copper nail and washer				
washer				
 J. S. Johnson survey, 10 ft. S. of center of cattle guard in NS. fence line, 20 ft. N. of center of gate, under fence, set flush with ground and surrounded by rocks; top of iron rod			059	0.4
line, 20 ft. N. of center of gate, under fence, set flush with ground and surrounded by rocks; top of iron rod		ა,	053.	84
and surrounded by rocks; top of iron rod				
I. & G. N. R. R. Co. survey, in sec. 2, at intersection of EW. telephone line and NS. fence line, 7 ft. W. of telephone pole, in fence line, set flush with ground; top of iron rod		3	174	17
phone line and NS. fence line, 7 ft. W. of telephone pole, in fence line, set flush with ground; top of iron rod		٠,		~•
line, set flush with ground; top of iron rod				
		3,	186.	38
	** This line cuts the northwest corner of Sanford quadrangle but no bench marks were s			

 $^{^{\}mathfrak{D}}$ This line cuts the northwest corner of Sanford quadrangle but no bench marks were set in that portion of the line.

DUMAS NO. 2 QUADRANGLE³¹

[Latitude 35°45′-36°00′; longitude 101°45′-102°00′]

MOORE COUNTY

From Dumas No. 1 quadrangle alternately west and south along roads to point 0.5 mile east of Dumas, thence north into Ideal quadrangle (by E. E. Harris in 1927)

mile east of Dumas, thence north into Ideal quadrangle (by E. E. Harris in 1927)		
Beede, 6.6 mi. W. of, about 500 ft. E. of windmill, on S. side of main		
rd., on E. side of cut-off rd., 3 ft. S. and 3 ft. E. from L-angle in fence		
line, in concrete post; standard tablet stamped "H 41 1927"	Feet	
(recovered by U. S. C. & G. S. in 1935)3,	470.	039
Reference mark, 71 ft. E. of tablet, 4 in. under ground; iron hub 3,	468.	93
Beede, 7.1 mi. W. of, on N. side of rd.; iron hub		
Beede, 8.1 mi. W. of, 1.0 mi. E. of turn to S. in rd., on N. side of rd.,		
2 ft. N. and 2 ft. W. from L-angle in fence line; iron hub	492.	58
Beede, 9.1 mi. W. of, 3.0 mi. N., thence 9.0 mi. E. from Moore County		
courthouse at Dumas, on W. side of turn to S. in rd., 30 ft. N. of		
rd. SW. to Morton well, 10 ft. S. of S. side of rd. E., 2 ft. W. of fence		
line, in concrete post; standard tablet stamped "H 42 1927"		
(recovered by U. S. C. & G. S. in 1935) 3,	507.	208
Reference mark, 133.8 ft. N.70°E. of tablet, 1 ft. S. of fence line, 4 in.		
under ground; iron hub	506.	03
Dumas, 9.0 mi. E., thence 2.0 mi. N. from, on W. side of rd., 2 ft. N.		
and 2 ft. W. from L-angle in fence line; iron hub	510.	11
Dumas, 9.0 mi. E., thence 1.0 mi. N. from, on E. side of rd., 3 ft. S. and		
3 ft. E. from T-angle in fence line, in concrete post; standard tablet		
stamped "H 43 1927" (recovered by U. S. C. & G. S. in 1935) 3,	517.	916
Reference mark, 129.8 ft. N. of tablet, 1 ft. E. of fence line, 4 in. under		
ground; iron hub	517.	68
Dumas, 9.0 mi. E. of, in SE. corner of junction of rd. E. through gate		
at turn W. in rd., 4 ft. N. and 4 ft. E. from T-angle in fence line; iron		
hub3,	503.	20
Dumas, 8.0 mi. E. of, on S. side of rd., 2 ft. S. of fence line, in concrete		
post; standard tablet stamped "H 44 1927"	547.	679
Reference mark, 61.5 ft. E. of tablet, 1 ft. S. of fence line, 4 in. under ground; iron hub	T 4 C	00
	540.	69
Dumas, 7.0 mi. E. of, on N. side of rd., in front of deserted shack, 1 ft. N. and 1 ft. W. from T-angle in fence line; iron hub	565	70
Dumas, 6.2 mi. E. of, on S. side of rd., 900 ft. E. of angle in rd., 25 ft. E.	505.	79
of rd. S. through gate, 1 ft. S. of fence line, in concrete post; stand-		
ard tablet stamped "H 45 1927" (recovered by U. S. C. & G. S.		
in 1934) 3,	568	585
Reference mark, 164.3 ft. E. of tablet, 1 ft. N. of fence line, 4 in. under	<i>5</i> 00.	900
ground; iron hub	567	70
Dumas, 5.5 mi. E. of, on N. side of angle in rd., on E. side of farm		••
rd. crossing, 1 ft. N. and 1 ft. E. from T-angle in fence line; iron hub. 3,	581.	81
Dumas, 4.5 mi. E. of, on N. side of rd., 3 ft. N. and 3 ft. E. from L-angle	001.	-
in fence line, in concrete post; standard tablet stamped "H 46		
1927" (recovered by U. S. C. & G. S. in 1934)	597.	690
Reference mark, 235.5 ft. E. of tablet, 1 ft. N. of fence line, 4 in. under		
ground; iron hub	596.	22
Dumas, 3.5 mi. E. of, at summit of slight grade, on S. side of rd., 340 ft.		
W. of fence corner, 1 ft. N. of fence line; iron hub	615.	82

²¹ The figures of elevation given are preliminary figures based on the 1929 general adjustment; additional leveling may necessitate further adjustment.

Dumas, 2.5 mi. E. of, on S. side of rd., at W. edge of dim rd. S. through	
gate, 3 ft. S. and 3 ft. W. from T-angle in fence line, in concrete post;	
standard tablet stamped "H 47 1927"	
Reference mark, 218.3 ft. E. of tablet, 1 ft. S. of fence line, 4 in. under	
ground; iron hub	3, 614. 69
Dumas, 1.5 mi. E. of, in NW. corner of farm rd. crossing, 1 ft. W. of fence line, 1 ft. N. of leaning support for corner fence post; iron hub	9 694 70
Dumas, 0.5 mi. E. of, at junction of rd. N. to Stratford, on S. side of rd.,	3, 034. 78
3 ft. S. and 50 ft. E. from fence corner, in concrete post; standard	
tablet stamped "H 48 1927" (recovered in 1933; recovered also by	
U. S. C. & G. S. in 1934)	3, 649. 796
Reference mark, 200.5 ft. E. of tablet, 1 ft. S. of fence line, 4 in. under	
ground; iron hub	3, 647. 64
Dumas, 0.5 mi. E., thence 1.0 mi. N. from, on E. side of rd., 25 ft. S. of	
farm rd. crossing, 1 ft. W. of fence line; iron hub	3, 650. 96
Dumas, 0.5 mi. E., thence 2.0 mi. N. from, in SE. angle of junction of T-rd. E., 2 ft. S. and 2 ft. E. from L-angle in fence line, in concrete	
post; standard tablet stamped "H 49 1927"	3 639 367
Reference mark, 96.5 ft. S. of tablet, 1 ft. E. of fence line, 4 in. under	0, 000. 001
ground; iron hub	3, 638. 82
Dumas, 0.5 mi. E., thence 3.0 mi. N. from, on E. side of rd., 80 ft. N.	
of farm rd. NE. through gate, 1 ft. W. of fence line; iron hub	3, 626. 93
Dumas, 0.5 mi. E., thence 4.0 mi. N. from, on E. side of rd., 3 ft. S. and	
3 ft. E. from T-angle in fence line, in concrete post; standard tablet stamped "H 50 1927"	
Reference mark, 105.3 ft. S. of tablet, 1 ft. E. of fence line, 4 in. under	3, 613. 759
ground; iron hub	3 613 00
Dumas, 0.5 mi. E., thence 5.0 mi. N. from, on E. side of rd., 30 ft. S. of	0, 020. 00
dim rd. E. through gate, 1 ft. W. of fence line; iron hub	3, 609. 38
Dumas, 0.5 mi. E., thence 6.0 mi. N. from, on E. side of rd., 3 ft. S. and	
3 ft. E. from T-angle in fence line, in concrete post; standard tablet	
stamped "H 51 1927"	3, 600. 157
ground; iron hub.	3 508 59
Dumas, 0.5 mi. E., thence 7.0 mi. N. from, on W. side of rd., in SW. angle	0, 090. 02
of farm rd. crossing, 2 ft. S. and 2 ft. W. from L-angle in fence line;	
iron hub	3, 614. 08
Dumas, 0.5 mi. E., thence 8.0 mi. N. from, in SE. angle of farm rd.	
crossing, 3 ft. S. and 3 ft. E. from T-angle in fence line, at gate, in	
concrete post; standard tablet stamped "H 52 1927"	3, 613. 743
Reference mark, 82.1 ft. S. of tablet, 1 ft. E. of fence line, 4 in. under	2 612 00
ground; iron hub	3, 013. 28
School, on E. side of angle in rd. to E., 2 ft. S. and 1 ft. E. from	
fence post; iron hub.	3, 607. 42
From road junction 0.5 mile east of Dumas along road west to Dumas (by E. E. Harris	•
in 1927; spur line leveled twice)	
Dumas, at Moore County courthouse, in NE. corner of grounds, in	
concrete post; standard tablet stamped "H 84 1927" (recovered in	
1933; recovered also by U. S. C. & G. S. in 1934) 22	3, 655. 737

³³ In 1938 it was reported that this bench mark had been destroyed.

From Fourways quadrangle north along U.S. Highway 87 (State Highway 8) to Dumas (by S. R. Archer in 1933)

Dumas, 6.9 mi. S. of Moore County courthouse at, 0.14 mi. SW. of point where highway crosses line between secs. 101 and 110, block 44, H. & T. C. R. R. Co. survey, on top of S. end of E. head wall of concrete highway culvert; chiseled square	k of Feet - 3, 599. 84
R. R. Co. survey, 210 ft. S. of S. end of concrete highway bridg	е .
over Big Blue Creek, on E. side of highway, 2 ft. NW. of corner pos of T-fence E., in concrete post; standard tablet stamped "3437"	
Reference mark, 210 ft. N. of tablet, at highway bridge over Big Blu	е
Creek, on top of W. parapet of S. concrete abutment; chiseled square. Dumas, 5.2 mi. S. of, 0.25 mi. W. of center of sec. 143, block 44, H.	
T. C. R. R. survey, at highway bridge over North Fork of Big Blu	e
Creek, on top of E. parapet of N. concrete abutment; chisele square	
Dumas, 4.0 mi. S. of, in NW¼ sec. 152, block 44, H. & T. C. R. R. Co	
survey, at angle in highway at top of hill, on E. side of highway a junction of T-rd. SE., on N. side of cattle guard and gate, midwa	
between N. gatepost and corner post of highway right-of-way fence	
under fence leading to cattle guard and gate, set flush with ground and surrounded by rocks; top of iron rod	
Dumas, 3.2 mi. S. of, 0.3 mi. NE. of center of sec. 184, block 44, H. &	
T. C. R. R. Co. survey, on top of S. end of W. head wall of concret	
culvert; chiseled square	. 3, 016. 3 8
block 44, H. & T. C. R. R. Co. survey, on W. side of highway, near S	•
end of curve to SE., 35 ft. N. of center of cattle guard on private rd SW. to ranch house, 2 ft. SE. of corner post of T-fence W., in con	
crete post; standard tablet stamped "3646"	3, 645. 667
Dumas, 2.0 mi. S. of, near center of sec. 195, block 44, H. & T. C. R. R. Co. survey, on top of S. end of W. head wall of concrete highway	
culvert; chiseled square	3, 632. 55
Dumas, 1.2 mi. S. of, near center of sec. 226, block 44, H. & T. C. R. R. Co. survey, on E. side of highway, at fence line, on top of concret	
highway right-of-way post; chiseled cross	. 3, 66 5. 7 6
Dumas, 0.6 mi. S. of courthouse, at S. city corporation line, at quarte	
corner between secs. 226 and 237, block 44, H. &. T. C. R. R. Co survey, in SE. corner of crossroads, on top of concrete highway	
right-of-way post; chiseled cross	
ECHDWAYS OHADDANGLESS	

FOURWAYS QUADRANGLE 23

[Latitude 35°30'-35°45'; longitude 101°45'-102°00']

MOORE AND POTTER COUNTIES

From Cliffside quadrangle generally northwest along U.S. Highway 87 and Panhandle & Santa Fe Railway to road junction 0.5 mile south of Bivins Booster Station, thence west along road and northwest along railway to point 2.8 miles west of Fourways, thence east and north along State Highway 5 and U.S. Highway 87 (State Highway 9) into Dumas No. 2 quadrangle (by S. R. Archer in 1933)

Canadian River bridge, 2.9 mi. NW. of, 225 ft. NW. of gate in NE. highway fence line across ranch rd. N., 630 ft. SE. of highway milepost sign, on top of NW. end of NE. head wall of concrete highway culvert; chiseled square______3, 351. 27

²³ The figures of elevation given are preliminary figures based on the 1929 general adjustment; additional leveling may necessitate further adjustment.

²¹⁴⁹¹⁷⁻⁴⁰⁻⁴

Canadian River bridge, 3.5 mi. NW. of, 335 ft. NW. of point where telephone line crosses highway, on top of SE. end of NE. head wall of concrete highway culvert; chiseled squareCanadian River bridge, 4.0 mi. NW. of, 1.2 mi. SE. of Panhandle & Santa Fe Ry. overpass, 1 ft. W. of E. right-of-way fence, 3 ft. S. of corner of T-fence E., in concrete post; standard tablet stamped	
"T T 16 L 1933"	·
Canadian River bridge, 5.2 mi. NW. of, 0.7 mi. SW. of Marsh sta. on Panhandle & Santa Fe Ry., at R. R. overhead bridge 26-C, on SW. side of highway, on top of SW. corner of SE. end of SW. concrete abutment; chiseled square (recovered by U. S. C. & G. S. in 1934)	
Marsh, 0.4 mi. N. of sta. sign, on top of S. end of E. head wall of R. R.	
concrete culvert 27-A; chiseled square	
canadian River bridge, 6.8 mi. NW. of, 0.4 mi. NW. of junction of T-rd. NE., at highway bridge over John Ray Creek, on top of NE.	·
end of NW. concrete abutment; chiseled squareCanadian River bridge, 7.5 mi. NW. of, 0.7 mi. SE. of junction of T-rd. W., on top of SE. end of SW. head wall of concrete highway culvert;	
chiseled square————————————————————————————————————	3, 467. 60
"T T 1 D 1933"Bivins Booster Sta., 3.6 mi. SE. of, on top of N. end of W. head wall of	3, 542. 751
concrete highway culvert; chiseled squareBivins Booster Sta., 3.0 mi. S. of, on top of N. end of W. head wall of	3, 557. 65
concrete highway culvert; chiseled square	
Proj 585 B Sta 1559+99.1"; chiseled squareBivins Booster Sta., 1.4 mi. S. of, 0.2 mi. S. of Moore-Potter county	3, 688. 09
line, at N. end of R. R. overpass, on E. side of highway, on top of E. end of N. wall of concrete highway culvert, outlet for subway drainage; chiseled square	3, 668. 02
Bivins Booster Sta., 1.2 mi. S. of, at Moore-Potter county line, at end of concrete pavement, 270 ft. W. of center line of pavement, in top of county-line concrete post; bronze tablet stamped "Moore-Potter	
County M P 19" (recovered by U. S. C. & G. S. in 1934) Bivins Booster Sta., 0.5 mi. S. of, 1.2 mi. E. of Exell sta. on Panhandle & Santa Fe Ry., 320 ft. N. of junction of T-rd. W., on top of N. end	
of W. head wall of concrete highway culvert; chiseled square	3, 653. 22

-	Exell, 750 ft. NW. along R. R., thence 250 ft. E. along rd. from sta., on S. side of rd., in E. right-of-way (R. R.) fence line, 2 ft. SE. of corner post, under fence, set flush with ground; top of iron rod (recovered by U. S. C. & G. S. in 1934)	3, 733. 3, 733.	116 159
	[Line jogs into Channing No. 4 quadrangle]		
	Fourways, 2.0 mi. W. of, at SW. cor. sec. 15, block 44, H. & T. C. R. R. Co. survey, on N. side of highway, 40 ft. E. of center line of tangent of T-rd. N., 25 ft. E. of center of gate, 2.5 ft. E. of tall cedar fence post at E. side of gate, at fence line, under fence, set flush with ground; top of iron rod	2 712	05
	Fourways, 1.0 mi. W. of, at SW. cor. sec. 16, block 44, H. & T. C. R. R. Co. survey, on N. side of highway, 20 ft. E. of fence line N., 4 ft. E. of E. post of gate to field, under fence, set flush with ground; top of		ฮบ
	iron rod————————————————————————————————————	3, 689.	85
	stamped "T T 38 L 1933"	3, 652.	
	of concrete highway culvert; chiseled square	3, 623.	60
	of concrete highway culvert; chiseled square		
	Square	3, 537.	65
	line, in concrete post; standard tablet stamped "TT37L1933" Dumas, 8.6 mi. S. of, at highway bridge over Grapevine (Little Blue) Creek, on top of W. parapet of N. concrete abutment; chiseled	3, 552.	420
	Square	3, 502.	
	wall of concrete highway culvert; chiseled square	3, 584.	08

From Cliffside quadrangle northeast along east bank of Canadian River 2.8 miles thence southeast along road 0.6 mile into Sanford quadrangle (by C. S. Carne in 1933)		
Mouth of Bonita Creek, 3.8 mi. NE. of, 600 ft. E. of mouth of wide drain, 150 ft. SE. of river bed, 100 ft. SE. of wire gate, in root of 6-in. hackberry tree; copper nail and washerMouth of Bonita Creek, 5.1 mi. NE. of, at end of rocky point of ridge.	Feet 2, 961.	.12
on N. bank of drain, on boulder; chiseled square	2 , 935.	88
2957"	2, 957.	
From Channing No. 4 quadrangle east along road to point 8.2 miles northwest along U. S. Highway 87 from Canadian River bridge (by F. J. Fricke in 1933; releveled by C. S. Carney in 1934)		
Bivins ranch headquarters, 2.2 mi. E. of, 4.5 mi. SE. along U. S. Highway 87, thence 2.3 mi. W. from Bivins Booster Sta., on line between secs. 9 and 16, block O 18, D. & P. R. R. Co. survey, 520 ft. W. of abandoned schoolhouse, 3 ft. E. of fence corner, in concrete post; standard tablet stamped "T T 2 D 1933"		50
Bivins Booster Sta., 4.5 mi. SE., thence 1.3 mi. W. from, 8.2 mi. NW., thence 1.3 mi. W. from Canadian River bridge, 360 ft. S. of corner post of T-fence W., 15 ft. N. of center of cattle guard in NS. fence line, 3.5 ft. N. of N. post of cattle guard, set flush with ground;		
top of iron rod		81
H. & T. C. R. R. Co. survey, block 44, about 570 ft. E. of cor. secs. 67, 68, 101, and 102, 711 ft. E. of gate in EW. section-line fence, on first small rise E. of gate, under fence, set flush with ground; top		
of iron rod		
in concrete post; standard tablet stamped "T T 39 L 1933"		
top of iron rod		
post; standard tablet stamped "T T 40 L 1933"	3, 483. 8	348
pipe	3, 450. 6	6

Fourways, 6.0 mi. E., thence 4.0 mi. N. from, at cor. secs. 17, 18, 19 and 20, block 6 T, T.& N. O. R. R. Co. survey, 2.2 ft. S. of corner of T-fence S. and stone marking section corner, under fence, set flush with ground; top of iron rod	r t Feet . 3, 410. 68
section-line fence, in concrete post; standard tablet stamped	l .
"T T 8 D 1933"Fourways, 6.0 mi. E., thence 2.5 mi. N. from, near quarter corner	
between secs. 33 and 34, block 6 T, T. & N. O. R. R. Co. survey at intersection of NS. section-line fence and rd. W. to Brown ranch headquarters, 5.3 ft. S. of S. gatepost in fence, under fence, set	, L
flush with ground; top of iron rod	
Fourways, 6.0 mi. E., thence 2.0 mi. N. from, at cor. secs. 33, 34, 35, and 36, block 6 T, T. & N. O. R. R. Co. survey, 4.5 ft. E. of corner of fences N. and W., at 2-in. pipe marking section corner; top of	•
pipe	3, 388. 93
Fourways, 6.0 mi. E., thence 1.0 mi. N. from, at cor. secs. 35, 36, 49,	
and 50, block 6 T, T. & N. O. R. R. Co. survey, at 2-in. gas pipe projecting about 2 ft. above ground and marking section corner;	
top of pipetop of pipe	
Fourways, 6.0 mi. E., thence 0.5 mi. N. from, near quarter corner	
between secs. 49 and 50, block 6 T, T. & N. O. R. R. Co. survey,	
at gate in EW. fence line, 30 in. W. of W. gatepost, under fence,	
set flush with ground; top of iron rod	
Fourways, 6.0 mi. E. of, 6 ft. W. of iron pipe and stone marking cor.	
secs. 49, 50, 51, and 52, block 6 T, T. & N. O. R. R. Co. survey, 23	
ft. S. of EW. rd., 326 ft. W. of pipe line crossing rd., in concrete	2 400 022
post; standard tablet stamped "T T 41 L 1933"	
Fourways, 6.0 mi. E., thence 1.1 mi. S. from, at S. cor. secs. 51 and 52, block 6 T, T. & N. O. R. R. Co. survey, and at N¼ corner Horace	
Hall block, 20 in. S. of corner of T-fence W. and pipe marking sec-	
tion corner, under fence S., set flush with ground and surrounded	
by rocks; top of iron rod	
Fourways, 6.0 mi. E., thence 2.1 mi. S. from, 0.7 mi. NE. of Sneed's	
South Camp, 5 ft. N. and 457 ft. W. from iron pipe marking N. cor.	
secs. 6 and 8, block B 10, E. L. & R. R. R. R. Co. survey, 175 ft. E.	
of T-fence N. through center of Horace Hall block, on S. side of E	
W. fence, 1 ft. S. and 15 ft. W. from cattle guard across rd., in con-	2 440 625
crete post; standard tablet stamped "T T 42 L 1933"	3, 449. 033
E. L. & R. R. R. Co. survey, 5.3 ft. W. of corner post of fences	
W. and NE., 20 ft. NW. of center line of rd., under fence, set flush	
with ground; top of iron rod	3, 382, 16
Sneed's South Camp, 0.6 mi. SW. of, in sec. 3, block B 10, E. L. &	•
R. R. R. Co. survey, 25 ft. S. of S. bank of creek, about 8 ft. S.	
of center line of rd., in NE. root of lone 48-in. double-forked cot-	
tonwood tree; copper nail and washer	3, 369. 74
Sneed's South Camp, 1.4 mi. SW. of, at SW. cor. sec. 3, block B 10,	
E. L. & R. R. R. R. Co. survey, at T-fence N., 55 ft. W. of center of gate at 2-in pine marking section corner; top of pine	2 511 A1
of gate, at 2-in. pipe marking section corner; top of pipe	0, 911. 01

Sneed's South Camp, 2.5 mi. SW. of, 4.2 mi. along interstate pipe line E. of Bivins Booster Sta., 0.5 mi. N. of Moore-Potter county line, 24 ft. S. of rd. and cattle guard in NS. fence, on W. side of fence, in concrete post; standard tablet stamped "T T 43 L 1933"Sneed's South Camp, 3.3 mi. SW. of, at quarter corner between secs. 83 and 92, block O 18, D. & P. R. R. Co. survey, 1.6 ft. S. of corner post of T-fence E., in fence line, 20 ft. E. of center of windmill, set	Feet 3, 625. 155
flush with ground; top of iron rod	
rocks; top of iron rod	
Marsh, 0.9 mi. N., thence 2.9 mi. NE. from, about 1,000 ft. S. of corsecs. 64, 65, 93, and 102, block O 18, D. & P. R. R. Co. survey, 40 ft. N. of center of cattle guard in NS. fence line, 2 ft. S. of corner post of fence lines E. and S., under fence, set flush with ground; top	
of iron rod	
From Sanford quadrangle at point 1.3 miles north of Moore-Potter county line along roads generally west to road junction 4.5 miles southeast of Bivins Booster Station on U. S. Highway 87 (by C. S. Carney in 1933–34)	
Four Section Camp, 3.8 mi. SE. of, 1.3 mi. N. of Moore-Potter county line, 325 ft. E. of center of Plum Creek, 12.5 ft. W. of center line of rd., in telephone line, set in concrete; top of steel rod Four Section Camp, 2.9 mi. SE. of, on top of W. wall of Plum Creek Canyon, 5 ft. E. of telephone pole, in telephone line, in limestone	3, 059. 74
outcrop; standard tablet stamped "1933 3269"	3, 269. 133
of mesquite tree; copper nail and washer	
Four Section Camp, 1,500 ft. S. and 250 ft. E. from house at, 9.2 mi. along interstate pipe line E. of Bivins Booster Sta., in SE¼ sec. 14, block B 10, E. L. & R. R. R. R. Co. survey, 540 ft. N. of intersection	
of fence and pipe line, 22 ft. N. and 2 ft. E. from cattle guard, in	
of fence and pipe line, 22 ft. N. and 2 ft. E. from cattle guard, in concrete post; standard tablet stamped "T T 54 L 1933 3317" Reference mark, 180 ft. W. of tablet, 20 ft. N. of rd. fork, in root of	3, 317. 336
of fence and pipe line, 22 ft. N. and 2 ft. E. from cattle guard, in concrete post; standard tablet stamped "T T 54 L 1933 3317"	3, 317. 336 3, 313. 40

Bivins Booster Sta., 7.6 mi. E. of, 50 ft. N. of rd., 15 ft. N. of telephone line, in root of mesquite tree; copper nail and washer	3, 381.	
"1934 3448"Bivins Booster Sta., 5.5 mi. E. of, 33 ft. N. of rd., in telephone line,		
8 in. W. of telephone pole, set in concrete; top of steel rod		88
From Cliffside quadrangle at point about 2.7 miles northwest of mouth of Bonita Creek generally northwest along roads to point on Panhandle & Santa Fe Railway 0.9 mile north of Marsh station (by C. S. Carney in 1934)		
Mouth of Bonita Creek, 3.7 mi. NW. of, in SE¼ sec. 18, block G & M 3, Gunter & Munson survey, 12 ft. N. and 21 ft. E. from gas line crossing prairie rd., in concrete post; standard tablet stamped "TR TO 10 To 10 P. 2000".	9 960	105
"T T 12 L 1933 3369"	3, 369.	125
nail and washerGunter & Munson survey, block G & M 3, near cor. secs. 18, 19, 20,	3, 367.	93
and 22, 145 ft. N. of rd. fork, 6 in. E. of NS. fence line, set in concrete; top of steel rod	3, 408.	87
Gunter & Munson survey, block G & M 3, near quarter corner on probable line between secs. 20 and 22, 25 ft. N. and 3 ft. W. from cattle guard in NS. fence crossing EW. prairie rd., in concrete		
post; standard tablet stamped "T T 13 L 1933 3429"		
set in concrete; top of steel rod	3, 448.	7 6
Masterson G-2 gas well, about 0.8 mi. SE. of, 30 ft. N. of center of cattle guard, 1 ft. E. of fence line, set in concrete; top of steel rodMasterson G-2 gas well, 205 ft. N. and 460 ft. W. from, in sec. 10,	3, 399.	60
block G & M 3, Gunter & Munson survey, E. of four-way rd. fork, 64 ft. S. and 37 ft. E. from SE. corner of white ranch house, at		
corner of yard fence, in concrete post; standard tablet stamped "T T 14 L 1933 3418"	3, 417.	633
Masterson G-2 gas well, about 0.6 mi. along graded rd. N. of, on summit of small knoll, 17 ft. W. of center line of rd., set in con-		
D. & P. R. Co. survey, block O 18, on line between secs. 102 and 103, 12 ft. E. of center of cattle guard, 20 ft. SE. of center of four-		
way rd. fork, 8 in. S. of fence line, set in concrete; top of steel rod	3, 518.	57
From point east of Canadian River generally north across country to point east of Plum Creek and 1.3 miles north of Moore-Potter county line (by C. S. Carney in 1934)		
H. & T. C. R. R. Co. survey, block 46, near NW. cor. sec. 106, on SE.		
side of Canadian River, in root of tree, one of clump of four 8-in. cottonwood trees; copper nail and washer	2, 929.	87
H. & T. C. R. R. Co. survey, block 47, in SE¼ sec. 61, on NW. side of Canadian River, at windmill, 5 ft. E. of center of well, on top of 6-in.		
well casing set in ground; chiseled cross. H. & T. C. R. R. Co. survey, block 47, in N½ sec. 60, in floor of and		
against W. wall of canyon, on boulder; chiseled square		
large rock monument, set in concrete; top of steel rodGunter & Munson survey, block G & M 3, at SE. cor. sec. 33; top of 1½-	3, 333.	04
	3, 294.	54

Gunter & Munson survey, block G & M 3, in S½ sec. 34, about 0.2 mi. SE. of water tank, 1,000 ft. S. of fence line, on N. wall of canyon, on	Feet	
rock outcrop; chiseled square		
stamped "T T 22 D 1933 3285"	3, 284.	844
washerInterstate pipe line crossing Plum Creek, 1.6 mi. along creek S. of, on S. bank of wash, in root on W. side of lone 72-in. cottonwood tree; cop-	3, 008.	57
per nail and washer		•
Near center of east side of northeast quarter of quadrangle, along road west 0.1 mile,	0, 010.	04
thence north across country 0.9 mile, thence east 0.1 mile (by C. S. Carney in 1934)		
[A jog from Sanford quadrangle]		
T. & N. O. R. R. Co. survey, block 6 T, in SE. cor. sec. 44, 12.0 mi. E. of junction of U. S. Highway 87 and State Highway 5 at Fourways, 2 ft. N. and 3 ft. W. from fence corner, on N. side of rd., in concrete		
post; standard tablet stamped "T T 11 D 1933 3342"		
From point 0.2 mile east of Brown ranch generally northeast across country and along roads into Dumas No. 1 quadrangle near mouth of Grapevine Creek (by F. J. Fricke in 1934) ²⁴	0, 022	
Brown ranch headquarters, 1.3 mi. NE. of, near NW. cor. sec. 32, block 6 T, T. & N. O. R. R. Co. survey, 225 ft. S. of center of Grapevine Creek, 25 ft. N. of bend in main rd. and junction of dim rd., set flush		
with ground and surrounded by rocks; top of iron rodT. & N. O. R. R. Co. survey, block 6 T, sec. 32, 65 ft. S. of center of Grapevine Creek, in root on S. side of lone 36-in. cottonwood tree;		
copper nail and washerT. & N. O. R. R. Co. survey, block 6 T, about 2,000 ft. N. of cor. secs. 21, 22, 31, and 32, in NS. fence line, on W. end of N. concrete foun-	3, 278. 5	54
dation of cattle guard, level with rd.; chiseled squareT. & N. O. R. R. Co. survey, block 6 T, 1 ft. S. and 3 ft. E. from fence corner at cor. secs. 22, 23, 30, and 31, in concrete post; standard	3, 376.	31
tablet stamped "T T 9 D 1933"	3, 321. (085
of gate, under fence, set flush with ground and surrounded by rocks; top of iron rod	3, 320. 7	70
pipe at cor. secs. 24, 25, 28, and 29, 3 ft. S. and 2 ft. E. from fence corner, in concrete post; standard tablet stamped "T T 10 D 1933"	3, 241. 8	358

²⁴ This line cuts the northwest corner of Sanford quadrangle, but no bench marks were established along that portion of the line.

T. & N. O. R. R. Co. survey, block 6 T, about 0.2 mi. S. of N. cor. secs. 25 and 26, 225 ft. N. of center of Grapevine Creek, 60 ft. S. of 21/2-in. surface pipe line, 22 in. S. of S. post of twin gates in N.-S. fence line, under fence, set flush with ground and surrounded by rocks; top of iron rod______ 3, 092. 63

Feet

HAMLIN QUADRANGLE

[Latitude 32°45′-33°00′; longitude 100°00′-100°15′]

FISHER, JONES, AND STONEWALL COUNTIES

From Rule quadrangle southwest along Kansas City, Mexico & Orient Railway 25 into Noodle quadrangle (by E. E. Harris in 1925)

Sagerton, 6.6 mi. SW. of, 240 ft. S. of milepost 595, on E. side of track,	
15 ft. E. of fence line, in root on E. side of small mesquite tree; cop-	
per nail and washer Sagerton, 7.8 mi. SW. of, 1,400 ft. S. of milepost 596, on E. side of track,	1, 050. 90
180 ft. S. of crossroads, 50 ft. E. of dirt rd., in root on S. side of lean-	
· · · · · · · · · · · · · · · · · · ·	
ing mesquite tree; copper nail and washer Sagerton, 8.9 mi. SW. of, 8.6 mi. NE. of Hamlin, 1,700 ft. S. of mile-	
post 597, on E. side of track, on E. side of dirt rd., 12 ft. N. and 2 ft.	
W. from angle in fence line, in concrete post; standard tablet	
stamped "H 270 1925" (recovered by U. S. C. & G. S. in 1933)	
Reference mark, 95 ft. S.75°W. of tablet, in crotch of mesquite tree;	•
copper nail and washer	
Hamlin, 7.0 mi. NE. of, in NE. angle of rd. crossing, 80 ft. N. and 20 ft.	1, 001. 00
E. from T-angle in fence line, in root on N. side of leaning mesquite	
tree; copper nail and washer	
Hamlin, 5.3 mi. NE. of, 60 ft. E. of track, on N. side of rd., in NE.	1, 073.00
corner of T-angle in fence line, 4 ft. from each fence, in concrete	
post; standard tablet stamped "H 270 A 1925" (recovered by	
U. S. C. & G. S. in 1933)	1 690 088
Reference mark, 60 ft. N.40°E. of tablet, in root on S. side of leaning	1, 000. 000
mesquite tree; copper nail and washer	1, 690, 90
Hamlin, 2.7 mi. NE. of, 1,100 ft. S. of milepost 603, in SE. angle of	- ,
rd. crossing, 3 ft. E. of fence line, in concrete post; standard tablet	
stamped "H 271 1925" (recovered by U. S. C. & G. S. in 1933)	1, 707. 726
Hamlin, 1.0 mi. NE. of, in SE. angle of crossing of State highway E.	• •
to Stamford, in crotch of mesquite tree; copper nail and washer	1, 713. 08
Hamlin, in front of sta.; top of rail	1, 720. 8
Hamlin, 600 ft. SW. of sta., in NW. angle of crossing of State highway	
S. to Sweetwater, in SE. corner of SE. concrete foundation of city	
water tank; standard tablet stamped "H 272 1925" (recovered	
by U. S. C. & G. S. in 1933)	1, 718. 245
Reference mark, 154 ft. W. of tablet, in root on N. side of 12-in. mes-	
quite tree; copper nail and washer	1, 717. 26
Hamlin, 1.0 mi. SW. of, 650 ft. N. of milepost 607, on E. side of track,	
in SW. corner of crossroads, in center of W. side of concrete bridge	
over ditch; chiseled square	1, 724. 51
Hamlin, 2.2 mi. SW. of, on E. side of track, on E. side of rd., in fence	* ***
line, in root on N. side of mesquite tree; copper nail and washer	1, 748. 97
Hamlin, 3.3 mi. SW. of, at Y-rd. fork, just NE. of rd. crossing, in angle	
in fence line, in concrete post; standard tablet stamped "H 273	1 776 101
1925" (recovered by U. S. C. & G. S. in 1933)	1, 770. 401

²⁵ Now the Panhandle & Santa Fe Railway.

•		
Reference mark, 90 ft. N.20°W. of tablet, in root on N. side of small mesquite tree; copper nail and washer		31
from each fence, in stone post; standard tablet stamped "H 274		
1925"	1, 803.	830
Reference mark, 60 ft. N. of tablet, in fence line, in root on S. side of lone mesquite tree; copper nail and washer	1 804	20
McCaulley, 1.0 mi. NE. of, on E. side of track, on E. side of State highway, 100 ft. S. of angle in forks of rd. crossing R. R., 20 ft. E. of fence line, in root on S. side of leaning mesquite tree; copper nail		
and washer		
McCaulley, 200 ft. SE. of sta., on E. side of dirt rd., 25 ft. S. and 2 ft.	1, 000.	U
W. from angle in fence line, in concrete post; standard tablet		
stamped "H 275 1925"	1, 880.	5 77
Reference mark, 70 ft. N. of tablet, in root on E. side of small mes-		
quite tree; copper nail and washer	1, 880.	12
McCaulley, 1. 8 mi. SW. of, 360 ft. S. of milepost 616, 100 ft. N. and 100 ft. W. from highway crossing, in root on S. side of mesquite tree;		
copper nail and washer	1, 879.	98
IDEAL QUADRANGLE 26	•	
[Latitude 36°00′-36°30′; longitude 101°30′-102°00′]		
HANSFORD, HUTCHINSON, MOORE, AND SHERMAN COUNTIES		
From Dumas No. 2 quadrangle along roads north and northwest into Stratford quadrangle (by E. E. Harris in 1927)		
Dumas, 0.5 mi. E., thence 10.4 mi. N. from, 7.6 mi. S. of Palo Duro		
School, in NW. corner of farm rd. crossing, 4 ft. N. and 3 ft. W. from T-angle in fence line, in concrete post; standard tablet stamped		
"H 53 1927"	3, 593, 4	408
Reference mark, 108.9 ft. S. of tablet, 1 ft. W. of fence line, 4 in. under	0, 000.	-00
ground; iron hub	3, 592.	65
Palo Duro School, 6.6 mi. S. of, on E. side of angle in rd., in SE. cor-		
ner of farm rd. crossing, in L-angle in fence line, 2 ft. from each fence; iron hub	2 500	00
Palo Duro School, 5.6 mi. S. of, on E. side of rd., 3 ft. N. and 3 ft. E.	0 , 000.	00
from L-angle in fence line, in concrete post; standard tablet stamped		
"H 54 1927"	3, 580.	129
Reference mark, 50 ft. E. of tablet, 1 ft. N. of fence line, 4 in. under	2 570	AE
ground; iron hub Palo Duro School, 4.6 mi. S. of, on E. side of rd., at jog in fence line, 3		40
ft. from each fence; iron hub	J, J1 5.	
		51
Palo Duro School, 3.6 mi. S. of, on E. side of rd., 3 ft. S. and 3 ft. E.		51
from T-angle in fence line, in concrete post; standard tablet stamped "H 55 1927"	3, 580.	
from T-angle in fence line, in concrete post; standard tablet stamped "H 55 1927"	3, 580. 3, 579.	411
from T-angle in fence line, in concrete post; standard tablet stamped "H 55 1927"	3, 580. 3, 579.	411
from T-angle in fence line, in concrete post; standard tablet stamped "H 55 1927"	3, 580. 3, 579. 3, 578.	411 50
from T-angle in fence line, in concrete post; standard tablet stamped "H 55 1927"	3, 580. 3, 579.	411 50

²⁵ The figures of elevation given are preliminary figures based on the 1929 general adjustment; additional leveling may necessitate further adjustment.

gatepost, in concrete post; standard tablet stamped "H 56 1927"__ 3, 579. 817

•			
Reference mark, 151.5 ft. S. of tablet, 1 ft. E. of fence line, 4 in. under ground; iron hub	3. 5		88
Palo Duro School, 0.5 mi. S. of, on E. side of rd., 3 ft. S. and 3 ft. E.			
from T-angle in fence line; iron hub Palo Duro School, 0.5 mi. N. of, on E. side of rd., 50 ft. S. of gate, 1 ft.	3, 5	56.	31
E. of fence line; iron hub.	3. 5	58.	29
Palo Duro School, 1.5 mi. N. of, 4.1 mi. W. of Spurlock School, on E.	-, -		
side of rd., 3 ft. N. and 3 ft. E. from T-angle in fence line at gate, in		HT 1	F 00
concrete post; standard tablet stamped "H 57 1927"			
Reference mark, 80 ft. S. of tablet, 1 ft. E. of fence line; iron hub Palo Duro School, 2.5 mi. N. of, in SE. corner of farm rd. crossing, 2	3, 5	71.	18
ft. S. and 2 ft. E. from L-angle in fence line; iron hub	3 5	88	15
Palo Duro School, 3.5 mi. N. of, on E. side of rd., 2 ft. S. and 2 ft. E.	0, 0	00.	-0
from L-angle in fence line, in concrete post; standard tablet stamped			
"H 73 1927"	3, 5	86.	606
Reference mark, 212 ft. S. of tablet, 1 ft. E. of fence line, 4 in. under			
ground; iron hub	3, 5	87.	26
Palo Duro School, 4.5 mi. N. of, on E. side of rd., 50 ft. SW. of wind-	۰. ۳	00	00
mill, 1 ft. W. of fence line; iron hubPalo Duro School, 5.5 mi. N. of, in SE. corner of crossroads, 3 ft. S.	3, 5	63 .	Ub
and 3 ft. E. from L-angle in fence line, in concrete post; standard			
tablet stamped "H 74 1927"	3, 5	53.	159
Reference mark, 122.1 ft. S. of tablet, 1 ft. E. of fence line, 4 in. under			
ground; iron hub	3, 5	53.	27
Palo Duro School, 6.4 mi. N. of, on E. side of rd., on top of 40-in.			
drain pipe; bolt head within chiseled square	3, 5	50.	00
Palo Duro School, 7.6 mi. N. of, on W. side of rd., on N. side of private rd. W., 6 ft. N. and 6 ft. W. from L-angle in fence line, in concrete			
post; standard tablet stamped "H 75 1927"	3 50	60	303
Reference mark, 52.2 ft. E. of tablet, 4 in. under ground; iron hub	3. 50	68. ·	48
Palo Duro School, 8.6 mi. N. of, on E. side of rd., 3 ft. N. and 3 ft. E.	0, 0		
from L-angle in fence line; iron hub	3, 5	7 5.	16
Palo Duro School, 9.7 mi. N. of, on E. side of rd., 10 ft. S. and 3 ft. E.			
from jog in fence line, in concrete post; standard tablet stamped	9 5	C A	145
"H 76 1927"Reference mark, 167.5 ft. S. of tablet, 1 ft. E. of fence line, 4 in. under	5, 50	04.	140
ground; iron hub	3. 50	63.	47
Palo Duro School, 10.6 mi. N. of, on E. side of rd., 1 ft. N. and 12 ft.	-, -		_
E. from T-angle in fence line; iron hub	3, 5	74.	91
Palo Duro School, 11.6 mi. N. of, on E. side of rd., 15 ft. S. and 2 ft.			
W. from jog in fence line, in concrete post; standard tablet stamped	0 51	75	700
"H 77 1927"Reference mark, 194.6 ft. S. of tablet, 1 ft. E. of fence line, 4 in. under	3, 5	75.	529
ground; iron hub	3. 5	75. '	70
Palo Duro School, 13.6 mi. N. of, in NW. angle of junction of private	0, 0	• • •	• •
rd. W., 3 ft. N. and 3 ft. W. from L-angle in fence line, in concrete			
post; standard tablet stamped "H 78 1927"	3, 59	91. :	259
Reference mark, 154.2 ft. S.45°E. of tablet, 1 ft. E. of fence line, 4 in.			
under ground; iron hub	3, 59	90.	39
Palo Duro School, 14.6 mi. N. of, 6.7 mi. SE. of Stratford, on W. edge of turn in rd. to W., 2 ft. S. of angle in fence line; iron hub	2 50	9	41
Stratford, 5.7 mi. SE. of, on S. side of rd., 4 ft. S. and 4 ft. W. from	υ, <i>υ</i> :	<i>3 </i>	#T
T-angle in fence line, in concrete post; standard tablet stamped			
"H 79 1927"	3, 59	99. 4	48 5

Reference mark, 92.4 ft. E. of tablet, 1 ft. S. of fence line, 4 in. under ground; iron hub		56
From Dumas No. 1 quadrangle north and northwest along roads by way of Ideal to point 4.1 miles west of Spurlock School (by E. E. Harris in 1927)		
Beede, 7.4 mi. N. of, in NE. angle of crossroads, 100 ft. E. of Hutchinson-Moore county line, 1 ft. S. and 30 ft. E. from gate in fence line crossing rd.; iron hub		
Beede, 8.5 mi. N. of, in SE. corner of crossroads; iron hub Beede, 9.0 mi. N. of, 0.6 mi. SE. of Phillips ranch house, in SE. corner of rd. fork, 3 ft. S. and 3 ft. E. from T-angle in fence line at gate across	3, 343.	47
rd., in concrete post; standard tablet stamped "H 61 1927"		
Phillips ranch house, 500 ft. NW. of, in SE. corner of angle in rd., 3 ft.		
S. and 3 ft. E. from L-angle in fence line; iron hub————————————————————————————————————		
Ideal, on W. side of angle in rd. N. through gate, 5 ft N. and 5. ft. W. from T-angle in fence line, in concrete post; standard tablet stamped		
"H 62 1927"	3, 362.	702
ground; iron hub		
Ideal, 100 ft. SW. of post office, 2 ft. N. and 2 ft. E. from L-angle in	•	
fence line, in concrete post; standard tablet stamped "H 63 1927". Reference mark, 151.2 ft. E. of tablet, 2 ft. N. and 2 ft. W. from T-angle in fence line, 4 in. under ground; iron hub	,	
Ideal, 1.2 mi. along Spurlock rd. W. of, in NE. corner of rd. fork, 20 ft. E. of cattle guard, 1 ft. S. of fence line; iron hub		
Ideal, 2.0 mi. NW. of, in Blake Draw of Palo Duro Creek, in NW. corner of crossroads, in concrete post; standard tablet stamped "H 64"		
1927"		٠.
Ideal, 3.0 mi. NW. of, on S. side of rd. fork, at gate, in fence corner; iron hub	•	
Ideal, 4.3 mi. NW. of, 90 ft. N. of angle in rd., at T-angle in fence line, in concrete post; standard tablet stamped "H 65 1927"	3, 427.	399
Reference mark, 75.2 ft. E. of tablet, 1 ft. S. of fence line, 4 in. under ground; iron hub	3, 426.	27
Ideal, 5.4 mi. NW. of, 80 ft. N. of rd., 30 ft. S. and 30 ft. E. from Tangle in fence line; iron hub	3, 437.	41
ft. N. and 2 ft. W. from T-angle in fence line, in concrete post; standard tablet stamped "H 66 1927"	3, 450,	597
Reference mark, 173.7 ft. E. of tablet, 1 ft. N. of fence line, 4 in. under ground; iron hub		
Ideal, 7.2 mi. NW. of, 100 ft. from rd. fork, equidistant from each rd.; iron hub		

Ideal, 7.9 mi. NW. of, 60 ft. SW. of angle in rd., 170 ft. W. of cattle guard, 4 ft. S. of fence line, in concrete post; standard tablet stamped		Feet	
"H 67 1927"			
Reference mark, 200 ft. E. of tablet; top of zinc post	3, 4	61.	35
Ideal, 9.2 mi. NW. of, 1,100 ft. S. of house, in wye of rd. fork, 100 ft.			
from fork; iron hub	3, 4	77.	87
Ideal, 10.3 mi. NW. of, on N. side of angle in rd. NW., 3 ft. N. and 3 ft.			
E. from L-angle in fence line, in concrete post; standard tablet			
stamped "H 68 1927"	3, 4	98.	971
Reference mark, 141 ft. E. of tablet, 1 ft. N. of fence line, 4 in. under			
ground; iron hub	3, 4	97.	57
Ideal, 11.5 mi. NW. of, 40 ft. S. of rd., 1 ft. E. of fence line crossing rd.;			
iron hub	3, 5	05.	27
Ideal, 12.3 mi. NW. of, 3.3 mi. E. of Spurlock School, on S. side of			
angle in rd., 3 ft. S. and 3 ft. W. from L-angle in fence line, in concrete			
post; standard tablet stamped "H 69 1927"	3, 5	06.	837
Reference mark, 55.8 ft. S. of tablet, 1 ft. W. of fence line, 4 in. under	•		
ground; iron hub	3. 5	05.	81
Spurlock School, 2.5 mi. E. of, on S. side of rd., 20 ft. W. of gate, 1 ft.	-, -		-
S. of fence line; iron hub	3. 5	32	80
Spurlock School, 1.9 mi. E. of, in NE. corner of crossroads, 3 ft. N. and	٥, ٥	 .	-
3 ft. E. from L-angle in fence line, in concrete post; standard tablet			
stamped "H 70 1927"	3 5	45	ัรรก
Reference mark, 93.2 ft. E. of tablet, 1 ft. N. of fence line, 4 in. under	0, 0	10.	000
ground; iron hub	2 5	:46	97
Spurlock School, 0.9 mi. E. of, in SE. corner of farm rd. crossing, 2 ft.	υ, υ	, , ,	01
S. and 2 ft. E. from T-angle in fence line; iron hub.	9 5	11	ഹാ
	ο, ο	44.	บอ
Spurlock School, 470 ft. W. of, in NW. angle of crossroads, 3 ft. N. and			
3 ft. W. from L-angle in fence line, in concrete post; standard tablet			
stamped "H 71 1927"	3, 5	32.	901
Reference mark, 100.6 ft. S.45°E. of tablet, 1 ft. S. of fence line, 4 in.		^^	
under ground; iron hub	3, 5	33.	52
Spurlock School, 1.1 mi. W. of, in SW. corner of farm rd. crossing, 1 ft.			
S. and 4 ft. W. from gatepost; iron hub	3, 5	27.	27
Spurlock School, 2.4 mi. W. of, 150 ft. E. of abandoned house, 15 ft. E.			
of rd. through gate, 2 ft. S. of fence line, in concrete post; standard			
tablet stamped "H 72 1927"	3, 5	44.	205
Reference mark, 76.3 ft. E. of tablet, 1 ft. N. of fence line, 4 in. under			
ground; iron hub	3, 5	43.	68
Spurlock School, 3.1 mi. W. of, 1.5 mi. N., thence 1.0 mi. E. from Palo			
Duro School, on N. side of dim rd., 1 ft. S. and 100 ft. E. from T-angle			
in fence line; iron hub	3, 5	52 .	01
LEFORS QUADRANGLE®			
[Latitude 35°00′-35°30′; longitude 100°30′-101°00′]			
COLLINGSWORTH, GRAY, DONLEY, AND WHEELER COUNTIES			
From McLean alternately north and west along roads by way of Lefors into Miami No. 3 quadrangle (by Tom Carney in 1926)	•		
U. S. C. & G. S. standard disk stamped "S 9 1909"	2, 8	58. 2	715
McLean, 0.5 mi. W., thence 0.5 mi. N. from Chicago, Rock Island &	,		-
Pacific Ry. sta. at, 700 ft. E. of cemetery, at junction of T-rd., on			
S. side of rd.; iron hub	2, 8	93. 4	40
²⁷ The figures of elevation given are preliminary figures based on the 1929 general adjustme	nt; ac	iditi	onal

 $^{^{27}}$ The figures of elevation given are preliminary figures based on the 1929 general adjustment; additional leveling may necessitate further adjustment.

McLean, 0.5 mi. W., thence 1.5 mi. N. from, 50 ft. E. of junction of		
T-rd. W., at farm of S. A. Cousin, in SW. corner of orchard, in con-		
crete post; standard tablet stamped "TC 1 1926"		
Reference mark, 60 ft. W. of tablet, in NE. corner of field; iron hub-	2 , 844.	6 6
McLean, 0.5 mi. W., thence 2.5 mi. N. from, 35 ft. W. of rd., in SW.		•
angle of line fence; iron hub	2 , 767.	96
McLean, 0.5 mi. W., thence 3.5 mi. N. from, 1,500 ft. S. of residence of		
J. B. Hart, in NW. angle of crossroads, in concrete post; standard		
tablet stamped "TC 2 1926"	2, 799.	24 3
Reference mark, 400 ft. NE. of tablet, on E. side of rd., on top of		
chalk mound; iron hub	2, 782.	73
McLean, 0.5 mi. W., thence 4.5 mi. N. from, in SW. angle of section-		
line fence W.; iron hub	2, 729.	22
McLean, 0.5 mi. W., thence 5.8 mi. N. from, 0.5 mi. S. of crossing of		
McClellan Creek, 60 ft. E. of junction of rd. W., in concrete post;		
standard tablet stamped "TC 3 1926"	2, 678.	350
McLean, 0.5 mi. W., thence 6.5 mi. N. from, 200 ft. S. of McClellan		
Creek, 3 ft. E. of fence, in root of willow tree; copper nail and washer.	2 , 560.	3 3
McLean, 0.5 mi. W., thence 6.6 mi. N. from, 500 ft. N. of McClellan		
Creek, 60 ft. W. of rd., in root of double cottonwood tree; copper		
nail and washer	2, 554.	03
McLean, 0.5 mi. W., thence 7.5 mi. N. from, in NE. angle of rd. junc-		
tion, in concrete post; standard tablet stamped "TC 4 1926"		
(recovered by U. S. C. & G. S. in 1935)	2, 656.	973
Reference mark, 100 ft. W. of tablet, in SE. angle of rd. junction; iron		
hub	2, 654.	22
McLean, 1.5 mi. W. and 7.5 mi. N. from, in SE. corner of section		
owned by Mrs. Ella Cubine; iron hub	2, 672.	18
McLean, 2.5 mi. W. and 7.5 mi. N. from, 35 ft. N. of center line of rd.,		
in NE. angle of line fence N., in concrete post; standard tablet		
stamped "TC 5 1926" (recovered by U. S. C. & G. S. in 1935)	2, 713.	594
Reference mark, 160 ft. E. of tablet, in fence line; iron hub	2, 712.	34
McLean, 4.5 mi. W. and 7.5 mi. N. from, 6.2 mi. S. and 7.0 mi. E.		
from Lefors, 35 ft. N. of center line of rd., in NW. angle of line fence		
N., in concrete post; standard tablet stamped "TC 6 1926" (re-		
covered by U. S. C. & G. S. in 1935)	2, 821.	070
Reference mark, 100 ft. W. of tablet, 25 ft. N. of center line of rd.;		
iron hub	2, 823.	30
Lefors, 6.2 mi. S. and 5.8 mi. E. from Gray County courthouse at, at		
gatepost, in rd.; iron hub	2, 880.	11
Lefors, 6.2 mi. S. and 4.8 mi. E. from, 35 ft. N. of center line of rd., 50		
ft. E. of line fence N., in concrete post; standard tablet stamped		
"TC 7 1926" (recovered by U. S. C. & G. S. in 1935)	2, 932.	809
Reference mark, 660 ft. W. of tablet, on N. side of rd., in fence line;	•	
iron hub	2, 937.	15
Lefors, 6.2 mi. S. and 3.7 mi. E. from, 35 ft. N. of center line of rd., on	•	
hilltop, in pasture; iron hub	2, 967.	94
Lefors, 6.2 mi. S. and 2.6 mi. E. from, 35 ft. N. of center line of rd., in	,	
pasture, in concrete post; standard tablet stamped "TC 8 1926"_	2, 991.	686

Reference mark, 160 ft. E. of tablet, 35 ft. N. of center line of rd.;		_
iron hub	2, 997. 5	6
Lefors, 5.8 mi. S. and 2.1 mi. E. from, 35 ft. N. of center line of rd., in	0.074.0	
NE. angle of line fence; iron hub	2, 974. 3	0
angle of line fence, in concrete post; standard tablet stamped "TC 9 1926" (recovered by U. S. C. & G. S. in 1935)	2 026 0	1/1
Reference mark, 250 ft. N. of tablet, in fence line; iron hub		
Lefors, 4.7 mi. S., thence 1.0 mi. E. from, 35 ft. W. of center line of rd.,	0, 010. 1	.4
in fence line; iron hub	2 998 2	1
Lefors, 3.8 mi. S., thence 1.0 mi. E. from, 35 ft. W. of center line of rd.,	- , 000. -	•
in NW. angle of line fence, in concrete post; standard tablet stamped		
"TC 10 1926" (recovered by U. S. C. & G. S. in 1935)		96
Reference mark, 450 ft. S. of tablet, in fence line; iron hub.		
Lefors, 2.8 mi. S., thence 1.0 mi. E. from, 35 ft. E. of center line of rd.,	_,	_
in SE. angle of line fence; iron hub	2, 965, 6	1
Lefors, 2.6 mi. S. of, 35 ft. N. of center line of rd., 90 ft. E. of turn N.,	,	
in concrete post; standard tablet stamped "TC 11 1926" (re-		
covered by U. S. C. & G. S. in 1935)	2, 925. 2	73
Reference mark, 200 ft. N. of tablet, in fence line; iron hub		
Lefors, 1.9 mi. S. of, 0.4 mi. S. of Turkey Creek, 35 ft. E. of center line	·	
of rd., on hilltop, in fence line; iron hub	2, 846. 9	0
Lefors, 1.5 mi. S. of, 150 ft. S. of Turkey Creek, on E. side of rd., in		
fence line, in root of 24-in. cottonwood tree; copper nail and washer-	2, 775. 4	8
Turkey Creek; surface of water May 29, 1926	2, 771. 0)
Lefors, 0.6 mi. S. of, 710 ft. N. of bend in North Fork of Red River,		
on ridge, near grove of cottonwood trees, in concrete post; standard		
tablet stamped "TC 12 1926" (recovered by U. S. C. & G. S. in		
1934)		
Lefors, at courthouse, in NE. corner of yard; iron hub	2, 801. 7	8
Lefors, 0.6 mi. NW. of courthouse, 50 ft. N. of NW. corner of town		
site section, in SW. corner of orchard, in concrete post; standard		
tablet stamped "TC 13 1926" (recovered by U. S. C. & G. S. in		
1934)	2, 811. 3	72
Reference mark, 200 ft. N. of tablet, on E. side of rd., in orchard fence	0 011 0	
line; iron hub	2, 811. 8	1
Lefors, 1.4 mi. N. of, 50 ft. N. of turn to W. in Lefors-Pampa rd., in	0.047.6	^
fence line; iron hubLefors, 1.4 mi. N., thence 0.9 mi. W. from, 30 ft. N. of rd., at curve	2, 947. 0	U
NW., in concrete post; standard tablet stamped "TC 14 1926"		
(recovered by U. S. C. & G. S. in 1934)	2 018 0	25
Reference mark, 420 ft. E. of tablet, 35 ft. N. of center line of rd.;	2, 910. 9	20
iron hub	2 899 2	4
Lefors, 2.5 mi. N. and 0.9 mi. W. from, 200 ft. N. of curve NW. in rd.,	2, 000. 2	-
8 ft. E. of telegraph line; iron hub	2, 958, 63	8
Lefors, 2.9 mi. N. and 1.4 mi. W. from, at curve to NW. in rd., 50 ft.	- , 000. 0	•
N. of center line of rd., in concrete post; standard tablet stamped		
"TC 15 1926"	3, 059, 26	00
Reference mark, 640 ft. E. of tablet, 28 ft. N. of center line of rd.;	,	
iron hub	3, 080. 2	6
	•	

LONGWORTH QUADRANGLE

[Latitude 32°30′-32°45′; longitude 100°15′-100°30′]

FISHER AND NOLAN COUNTIES

From point 2.9 miles north of Longworth along roads north by way of Roby into Rotan quadrangle (by E. R. Martin in 1924)

Rotan quadrangle (by E. R. Martin in 1924)		
Roby, 75 ft. from Fisher County courthouse, in NW. corner of county jail, about 1 ft. from ground; standard tablet stamped "M 7 1924". Reference mark, at W. entrance of courthouse, in S. end of first step, at junction of step and balustrade, in copper bolt 1 in. in diameter set in stone; copper nail and washer.	1, 970. 8	
From Sweetwater quadrangle north along Roby road to Longworth (by E. R. Mart in 1924; releveled by E. E. Harris in 1925)	in	
Sweetwater, 7.8 mi. NE. of, on S. side of rd., in SW. end of SE. shoulder of concrete culvert; standard tablet stamped "M 2 1924"Reference mark, 25 ft. NW. of tablet, in end of NW. shoulder of con-	2, 083. 17	79
orete culvert; square holeSweetwater, 10.4 mi. NE. of, on S. side of rd., in top of SE. shoulder of	2, 083. 62	3
concrete culvert; square hole	2, 111. 04	Į
1924"Reference mark, 30 ft. from tablet, in top of N. shoulder of same cul-		
vert; square holePalava, in NE. corner of junction of rd. E. to Abilene, on E. end of		
concrete culvert; chiseled cross	2, 153. 23	3
concrete pier; standard tablet stamped "M 4 1924"Reference mark, 158 ft. from tablet, at NE. corner of residence, on	•	
concrete foundation; chiseled cross		
Longworth, just W. of Kansas City, Mexico & Orient Ry. 28 sta., in SW. angle of crossroads, in W. abutment or shoulder of concrete culvert; standard tablet stamped "M 5 1924" (recovered in 1933; also re-	1, 950. 14	:
covered by U. S. C. & G. S. in 1933)	1, 968. 64	1
From Noodle quadrangle southwest along Kansas City, Mexico & Orient Railway to, Longworth (by E. E. Harris in 1925)		
Sylvester, 1.1 mi. SW. of, 1,800 ft. S. of milepost 620, on inside of sharp turn in rd., at point where rd. leaves R.R., in root on S. side of small mesquite tree; copper nail and washer	1, 865. 47	
Sylvester, 3.8 mi. SW. of, 3.9 mi. NE. of Longworth, in SW. corner of crossing, 70 ft. W. of track, in SW. angle of T in fence line, 3 ft. from each fence, in stone post; standard tablet stamped "H 278 1925"		
(recovered by U. S. C. & G. S. in 1933)Reference mark, 120 ft. N.30°W. of tablet, in crotch of mesquite tree;	1, 904. 48	1
copper nail and washerLongworth, 3.2 mi. NE. of, 100 ft. E. of crossing, on W. side of rd., at	1, 903. 31	
highway bridge over creek, in E. end of SW. wing wall; chiseled square	1, 902. 69	

²⁸ Now the Panhandle & Santa Fe Railway.

Longworth, 1.9 mi. NE. of, 200 ft. N. of milepost 625, 100 ft. SW. o crossing, on W. side of track, on W. side of private rd. S., in angl in fence line, in crotch of mesquite tree; copper nail and washerLongworth, 1.0 mi. NE. of, 900 ft. N. of milepost 626, on E. side o track, 70 ft. E. of highway, in line with T-rd. W., in crotch of mesquite tree; copper nail and washer	Feet 1, 935. 31
From Longworth north along Longworth-Roby road 2.9 miles (by E. R. Martin i 1924; releveled by J. M. Lawson in 1933)	1
Longworth, 1.1 mi. N. of, on top of NW. corner of concrete dip in highway; chiseled square (established in 1933)	1, 996. 78
tablished in 1933)Longworth, 2.4 mi. N. of, on E. side of rd., on top of E. side of E.	•
shoulder of culvert; chiseled crossLongworth, 2.9 mi. N. of, 4.2 mi. S. of Roby, in W. end of concret	•
culvert; standard tablet stamped "M 6 1924" Reference mark, 25 ft. from tablet, in E. end of concrete culvert square hole	;
MIAMI NO. 3 QUADRANGLE?	. 1, 999. 10
[Latitude 35°30′-35°45′; longitude 100°45′-101°00′]	
GRAY AND ROBERTS COUNTIES	
From Lefors quadrangle north and west along roads to road junction 1 mile sout and 1 mile east from Pampa, thence west along road and southwest along Par handle & Santa Fe Railway into Plemons quadrangle (by Tom Carney in 1926)	-
Lefors, 3.5 mi. N. and 1.8 mi. W. from, 250 ft. SE. of rock mound, N of curve in rd., in fence line; iron hub————————————————————————————————————	3, 136. 68
16 1926" (recovered by U. S. C. & G. S. in 1934) Reference mark, 230 ft. E. of tablet; iron hub Pampa, 2.0 mi. S. and 3.0 mi. E. from, 100 ft. NE. of entrance to H. F	3, 164. 37
Wilcox Pampa Oil Co. field, in fence line; iron hub Pampa, 2.0 mi. S. and 2.5 mi. E. from, at junction of lane N., in SW	•
Pampa, 2.0 mi. S. and 2.0 mi. E. from, in SW. corner of pasture, in concrete post; standard tablet stamped "TC 17 1926" (recovered by U. S. C. & G. S. in 1934)	n I
Pampa, 2.0 mi. S. and 1.0 mi. E. from, in NE. angle of crossroads; iron hub	1
Pampa, 1.0 mi. S., thence 1.0 mi. E. from, 30 ft. N. of center line of rd. at junction of T-rd. S., 28 ft. E. of section-line fence N., in concrete post; standard tablet stamped "TC 18 1926" (recovered by U. S	
C. & G. S. in 1934) Reference mark, 490 ft. S. of tablet, on E. side of rd., in fence line; iron	
Pampa, 1.0 mi. S. of, at intersection of Pampa-Jericho and Lefors	
Kings Mill rds., in NE. angle of crossroads; iron hub	0, 404. 01
29 The figures of elevation given are preliminary figures based on the 1929 general adjustr	ent: additional

^{214917—40——5}

Pampa, 1.0 mi. S., thence 0.5 mi. W. from, at intersection of new		Feet	
Pampa-Jericho highway, in NE. angle of crossroads; iron hub			75
Pampa, 1.0 mi. S., thence 1.0 mi. W. from, at crossroads, in SW. corner	,		
of dairy pasture, in concrete post; standard tablet stamped "TC 19			
1926" (recovered by U. S. C. & G. S. in 1934)	3, 2	41.	634
Pampa, 1.0 mi. S., thence 2.0 mi. W. from, about 525 ft. S. of Pan-			
handle & Santa Fe Ry. crossing E. of milepost 501, in NE. angle of			
junction of NS. rd.; iron hub	3, 2	249.	90
MORITA QUADRANGLE			
[Latitude 32°00'-32°15'; longitude 101°30'-101°45']			
GLASSCOCK, HOWARD, AND MARTIN COUNTIES			
From Big Spring South quadrangle at point near Lees alternately southwest and northwest along roads by way of Lomax into Slaughter No. 3 quadrangle at point about 1.8 miles south and 2.4 miles east from Stanton (by S. G. Lunde in 1938)			
Lees, 1.0 mi. SW. of, at cor. secs. 16, 17, 20, and 21, T. 2 S., block 33,			
Texas & Pacific Ry. survey, 40 ft. N. of center line of rd. at junction			
of private rds. N. and S., in S. side of corner post of T-fence N., 6 in.			
above ground; top of square-headed bolt	2, 5	555.	11
Lees, 2.0 mi. SW. of, at cor. secs. 17, 18, 19, and 20, T. 2 S., block 33,	,		
T. & P. Ry. survey, 40 ft. N. of center line of rd. at junction of			
private rds. N. and S., at iron-pipe cattle guard, in S. side of E. gate-			
post, 6 in. above ground; top of bolt	2, 5	548.	17
Lees, 3.0 mi. SW. of, at cor. secs. 13, 18, 19, and 24, T. 2 S., blocks 33			
and 34, T. & P. Ry. survey, 27 ft. S. and 46 ft. E. from junction of			
T-rd. E., 9 ft. E. of corner fence post, in concrete post; standard			
tablet stamped "T T 17 C 1938 2536"	2, 5	535.	742
Lees, 3.0 mi. SW., thence 1.0 mi. NW. from, near cor. secs. 7, 12, 13,			
and 18, T. 2 S., blocks 33 and 34, T. & P. Ry. survey, 25 ft. E. of			
center line of rd., on N. side of private lane E., in W. side of corner	٠.		••
fence post, 6 in. above ground; top of head of 60-penny spike	2, 5	18.	19
Lees, 3.0 mi. SW., thence 2.0 mi. NW. from, near cor. secs. 1, 6, 7, and			
12, T. 2 S., blocks 33 and 34, T. & P. Ry. survey, 110 ft. S. of Mc- Dowell ranch pasture gate No. 2, 25 ft. W. of center line of rd., in E.			
side of corner post of T-fence W., 6 in. above ground; top of head of			
60-penny spike	9 5	116	02
Lees, 3.0 mi. SW., thence 3.0 mi. NW. from, near cor. secs. 1, 6, 43, and	۷, ۰	,10.	34
48, Tps. 1 and 2 S., blocks 33 and 34, T. & P. Ry. survey, 84 ft. S. and			
40 ft. E. from center of rd. at fences, 93 ft. S. along fence from corner			
post of T-fence E., in concrete post; standard tablet stamped "T T			
18 C 1938 2521"	2. 5	521.	161
Lees, 3.0 mi. SW., thence 4.0 mi. NW. from, 1.0 mi. SE., thence 5.0 mi.	,		
NE. from Lomax, near cor. secs. 37, 42, 43, and 48, T. 1 S., blocks 33			
and 34, T. & P. Ry. survey, in NW. angle of junction of T-rd. W., in			
fence post, 6 in. above ground; top of head of 60-penny spike	2, 5	514.	85
Lomax, 1.0 mi. SE., thence 4.0 mi. NE. from, near cor. secs. 37, 38, 47,			
and 48, T. 1 S., block 34, T. & P. Ry. survey, 50 ft. N. of red gate			
marked "I. B. Cauble Hereford Farms," 15 ft. W. of windmill with			
6-in. casing, in corner post of T-fence N., 6 in. above ground; top of			
head of 60-penny spike	2, 5	524.	55

center of red gate marker (T. B. Cautole heretoord rarms). In concrete post; standard tablet stamped "T T19 C 1938 2510"	Lomax, 1.0 mi. SE., thence 3.0 mi. NE. from, near cor. secs. 38, 39, 46, and 47, T. 1 S., block 34, T. & P. Ry. survey, 37 ft. S. and 33 ft. W. from center line of rd. at NS. fence, 48 ft. W. along fence from		
Lomax, 1.0 mi. SE., thence 2.0 mi. NE. from, near cor. secs. 39, 40, 45, and 46, T. 1 S., block 34, T. & P. Ry. survey, on N. side of rd., in S. side of corner post of T-fence N., 6 in. above ground; top of head of 60-penny spike	center of red gate marked "I. B. Cauble Hereford Farms," in concrete		
and 46, T. 1 S., block 34, T. & P. Ry. survey, on N. side of rd., in S. side of corner post of T-fence N., 6 in. above ground; top of head of 60-penny spike			927
side of corner post of T-fence N., 6 in. above ground; top of head of 60-penny spike. Lomax, 1.0 mi. SE, thence 1.0 mi. NE. from, near cor. secs. 40, 41, 44, and 45, T. 1 S., block 34, T. & P. Ry. survey, 25 ft. N. of junction of T-rd S., in S. side of corner post of T-fence S., 6 in. above ground; top of head of 60-penny spike. Lomax, 1.0 mi. SE. of, near cor. secs. 41, 42, 43, and 44, T. 1 S., block 34, T. & P. Ry. survey, 10 ft. S. and 52 ft. E. from crossroads, 39 ft. E. of corner fence post, in concrete post; standard tablet stamped "T T 20 C 1938 2504" Lomax, 25 ft. NW. of junction of T-rd. SW. at, near cor. secs. 31, 32, 41, and 42, T. 1 S., block 34, T. & P. Ry. survey, on top of N. end of W. head wall of culvert; chiseled square. 2, 501. 43 Lomax, 1.0 mi. SW. of, near cor. secs. 31, 36, 37, and 42, T. 1 S., blocks 34 and 35, T. & P. Ry. survey, 45 ft. NW. of crossroads, in E. side of corner post of fences N. and W., 6 in. above ground; top of head of 60-penny spike. 2, 516. 01 Lomax, 1.0 mi. SW., thence 1.0 mi. NW. from, near cor. secs. 25, 30, 31, and 36, T. 1 S., blocks 34 and 35, T. & P. Ry. survey, 15 ft. S. and 42 ft. E. from junction of T-rd. W., 27 ft. N. of post at angle in fence, in concrete post; standard tablet stamped "T T 21 C 1938 2510" 2, 510. 438 Lomax, 1.0 mi. NW. and 2.0 mi. SW. from, near cor. secs. 25, 26, 35, and 36, T. 1 S., block 35, T. & P. Ry. survey, 45 ft. NE. of center of rd. at fences N. and S., in W. side of telephone pole at angle in fience, in and 3.0 mi. SW. from, near cor. secs. 26, 27, 34, and 35, T. 1 S., block 35, T. & P. Ry. survey, 40 ft. N. of center line of rd. at fences N. and S., in W. side of telephone pole at angle in fience in above ground; top of head of 60-penny spike. 2, 528. 94 Lomax, 1.0 mi. NW. and 3.0 mi. SW. from, near cor. secs. 27, 28, 33, and 34, T. 1 S., block 35, T. & P. Ry. survey, 50 ft. N. of center line of rd. in S. side of third pole W. of double beloe in telephone line, 6 in above ground; top of head of 60-penny spike. 2, 558.			
Lomax, 1.0 mi. SE., thence 1.0 mi. NE. from, near cor. secs. 40, 41, 44, and 45, T. 1 S., block 34, T. & P. Ry. survey, 25 ft. N. of junction of T-rd S., in S. side of corner post of T-fence S., 6 in. above ground; top of head of 60-penny spike. Lomax, 1.0 mi. SE. of, near cor. secs. 41, 42, 43, and 44, T. 1 S., block 34, T. & P. Ry. survey, 10 ft. S. and 52 ft. E. from crossroads, 39 ft. E. of corner fence post, in concrete post; standard tablet stamped "T T 20 C 1938 2504" Lomax, 25 ft. NW. of junction of T-rd. SW. at, near cor. secs. 31, 32, 41, and 42, T. 1 S., block 34, T. & P. Ry. survey, on top of N. end of W. head wall of culvert; chiseled square. Lomax, 1.0 mi. SW. of, near cor. secs. 31, 36, 37, and 42, T. 1 S., blocks 34 and 35, T. & P. Ry. survey, 45 ft. NW. of crossroads, in E. side of corner post of fences N. and W., 6 in. above ground; top of head of 60-penny spike. Lomax, 1.0 mi. SW., thence 1.0 mi. NW. from, near cor. secs. 25, 30, 31, and 36, T. 1 S., blocks 34 and 35, T. & P. Ry. survey, 15 ft. S. and 42 ft. E. from junction of T-rd. W., 27 ft. N. of post at angle in fence, in concrete post; standard tablet stamped "T T 21 C 1938 2510" Lomax, 1.0 mi. NW. and 2.0 mi. SW. from, near cor. secs. 25, 26, 35, and 36, T. 1 S., block 35, T. & P. Ry. survey, 45 ft. NE. of center of rd. at fences N. and S., in W. side of telephone pole at angle in line, 6 in. above ground; top of head of 60-penny spike. Lomax, 1.0 mi. NW. and 3.0 mi. SW. from, near cor. secs. 27, 28, 33, and 34, T. 1 S., block 35, T. & P. Ry. survey, 40 ft. N. of center line of rd., in S. side of third pole W. of double pole in telephone line, 6 in. above ground; top of head of 60-penny spike. 2, 558. 51 Lomax, 1.0 mi. NW. and 5.0 mi. SW. from, near cor. secs. 27, 28, 33, and 34, T. 1 S., block 35, T. & P. Ry. survey, 50 ft. N. of center line of rd., in S. side of third pole W. of double pole in telephone line, 6 in. above ground; top of head of 60-penny spike. 2, 558. 51 Lomax, 1.0 mi. NW. and 5.0 mi. SW. from, near cor. sec			
Lomax, 1.0 mi. SE., thence 1.0 mi. NE. from, near cor. secs. 40, 41, 44, and 45, T. 1 S., block 34, T. & P. Ry. survey, 25 ft. N. of junction of T-rd S., in S. side of corner post of T-fence S., 6 in. above ground; top of head of 60-penny spike			07
and 45, T. 1 S., block 34, T. & P. Ry. survey, 25 ft. N. of junction of T-rd S., in S. side of corner post of T-fence S., 6 in. above ground; top of head of 60-penny spike		2, 401.	31
T-rd S., in S. side of corner post of T-fence S., 6 in. above ground; top of head of 60-penny spike			
top of head of 60-penny spike			
Lomax, 1.0 mi. SE. of, near cor. secs. 41, 42, 43, and 44, T. 1 S., block 34, T. & P. Ry. survey, 10 ft. S. and 52 ft. E. from crossroads, 39 ft. E. of corner fence post, in concrete post; standard tablet stamped "T 7 20 C 1938 2504"		2 507	90
34, T. & P. Ry. survey, 10 ft. S. and 52 ft. E. from crossroads, 39 ft. E. of corner fence post, in concrete post; standard tablet stamped "T T 20 C 1938 2504" Lomax, 25 ft. NW. of junction of T-rd. SW. at, near cor. sees. 31, 32, 41, and 42, T. 1 S., block 34, T. & P. Ry. survey, on top of N. end of W. head wall of culvert; chiseled square. Lomax, 1.0 mi. SW. of, near cor. sees. 31, 36, 37, and 42, T. 1 S., blocks 34 and 35, T. & P. Ry. survey, 45 ft. NW. of crossroads, in E. side of corner post of fences N. and W., 6 in. above ground; top of head of 60-penny spike. Lomax, 1.0 mi. SW., thence 1.0 mi. NW. from, near cor. sees. 25, 30, 31, and 36, T. 1 S., blocks 34 and 35, T. & P. Ry. survey, 15 ft. S. and 42 ft. E. from junction of T-rd. W., 27 ft. N. of post at angle in fence, in concrete post; standard tablet stamped "T T 21 C 1938 2510" 2, 510. 438 Lomax, 1.0 mi. NW. and 2.0 mi. SW. from, near cor. sees. 25, 26, 35, and 36, T. 1 S., block 35, T. & P. Ry. survey, 45 ft. NE. of center of rd. at fences N. and S., in W. side of telephone pole at angle in line, 6 in. above ground; top of head of 60-penny spike. 2, 528. 94 Lomax, 1.0 mi. NW. and 3.0 mi. SW. from, near cor. sees. 26, 27, 34, and 35, T. 1 S., block 35, T. & P. Ry. survey, 40 ft. N. of center line of rd. at fences N. and S., 10 ft. E. of fence N., in SW. side of S. pole of double telephone pole, 6 in. above ground; top of head of 60-penny spike. 2, 554. 14 Lomax, 1.0 mi. NW. and 4.0 mi. SW. from, near cor. sees. 27, 28, 33, and 34, T. 1 S., block 35, T. & P. Ry. survey, 50 ft. N. of center line of rd., in S. side of third pole W. of double pole in telephone line, 6 in. above ground; top of head of 60-penny spike. 2, 558. 51 Lomax, 1.0 mi. NW. and 5.0 mi. SW. from, 1.5 mi. in air line S. and 3.5 mi. E. from Stanton, near cor. sees. 28, 29, 32, and 33, T. 1 S., block 35, T. & P. Ry. survey, on W. side of rd., 75 ft. S. and 57 ft. W. from telephone pole at angle in line, 76 ft. S. of center of cattle guard, 74 ft. S. along fence from fence a		2, 501.	20
E. of corner fence post, in concrete post; standard tablet stamped "T T 20 C 1938 2504" 2, 504. 343 Lomax, 25 ft. NW. of junction of T-rd. SW. at, near cor. secs. 31, 32, 41, and 42, T. 1 S., block 34, T. & P. Ry. survey, on top of N. end of W. head wall of culvert; chiseled square 2, 501. 43 Lomax, 1.0 mi. SW. of, near cor. secs. 31, 36, 37, and 42, T. 1 S., blocks 34 and 35, T. & P. Ry. survey, 45 ft. NW. of crossroads, in E. side of corner post of fences N. and W., 6 in. above ground; top of head of 60-penny spike 2, 516. 01 Lomax, 1.0 mi. SW., thence 1.0 mi. NW. from, near cor. secs. 25, 30, 31, and 36, T. 1 S., blocks 34 and 35, T. & P. Ry. survey, 15 ft. S. and 42 ft. E. from junction of T-rd. W., 27 ft. N. of post at angle in fence, in concrete post; standard tablet stamped "T T 21 C 1938 2510" 2, 510. 438 Lomax, 1.0 mi. NW. and 2.0 mi. SW. from, near cor. secs. 25, 26, 35, and 36, T. 1 S., block 35, T. & P. Ry. survey, 45 ft. NE. of center of rd. at fences N. and S., in W. side of telephone pole at angle in line, 6 in. above ground; top of head of 60-penny spike 2, 528. 94 Lomax, 1.0 mi. NW. and 3.0 mi. SW. from, near cor. secs. 26, 27, 34, and 35, T. 1 S., block 35, T. & P. Ry. survey, 40 ft. N. of center line of rd. at fences N. and S., 10 ft. E. of fence N., in SW. side of S. pole of double telephone pole, 6 in. above ground; top of head of 60-penny spike 2, 554. 14 Lomax, 1.0 mi. NW. and 4.0 mi. SW. from, near cor. secs. 27, 28, 33, and 34, T. 1 S., block 35, T. & P. Ry. survey, 50 ft. N. of center line of rd., in S. side of third pole W. of double pole in telephone line, 6 in. above ground; top of head of 60-penny spike 2, 558. 51 Lomax, 1.0 mi. NW. and 5.0 mi. SW. from, 1.5 mi. in air line S. and 3.5 mi. E. from Stanton, near cor. secs. 28, 29, 32, and 33, T. 1 S., block 35, T. & P. Ry. survey, or N. side of rd., 75 ft. S. and 57 ft. W. from telephone pole at angle in line, 76 ft. S. of center of cattle guard, 74 ft. S. along fence from fence angle to W., in concrete post; standard tablet s			
"T T 20 C 1938 2504" Lomax, 25 ft. NW. of junction of T-rd. SW. at, near cor. secs. 31, 32, 41, and 42, T. 1 S., block 34, T. & P. Ry. survey, on top of N. end of W. head wall of culvert; chiseled square Lomax, 1.0 mi. SW. of, near cor. secs. 31, 36, 37, and 42, T. 1 S., blocks 34 and 35, T. & P. Ry. survey, 45 ft. NW. of crossroads, in E. side of corner post of fences N. and W., 6 in. above ground; top of head of 60-penny spike. Lomax, 1.0 mi. SW., thence 1.0 mi. NW. from, near cor. secs. 25, 30, 31, and 36, T. 1 S., blocks 34 and 35, T. & P. Ry. survey, 15 ft. S. and 42 ft. E. from junction of T-rd. W., 27 ft. N. of post at angle in fence, in concrete post; standard tablet stamped "T T 21 C 1938 2510" Lomax, 1.0 mi. NW. and 2.0 mi. SW. from, near cor. secs. 25, 26, 35, and 36, T. 1 S., block 35, T. & P. Ry. survey, 45 ft. NE. of center of rd. at fences N. and S., in W. side of telephone pole at angle in line, 6 in. above ground; top of head of 60-penny spike. 2, 528. 94 Lomax, 1.0 mi. NW. and 3.0 mi. SW. from, near cor. secs. 26, 27, 34, and 35, T. 1 S., block 35, T. & P. Ry. survey, 40 ft. N. of center line of rd. at fences N. and S., 10 ft. E. of fence N., in SW. side of S. pole of double telephone pole, 6 in. above ground; top of head of 60-penny spike. Lomax, 1.0 mi. NW. and 4.0 mi. SW. from, near cor. secs. 27, 28, 33, and 34, T. 1 S., block 35, T. & P. Ry. survey, 50 ft. N. of center line of rd., in S. side of third pole W. of double pole in telephone line, 6 in. above ground; top of head of 60-penny spike. 2, 558. 51 Lomax, 1.0 mi. NW. and 5.0 mi. SW. from, 1.5 mi. in air line S. and 3.5 mi. E. from Stanton, near cor. secs. 28, 29, 32, and 33, T. 1 S., block 35, T. & P. Ry. survey, on W. side of rd., 75 ft. S. and 57 ft. W. from telephone pole at angle in line, 76 ft. S. of center of cattle guard, 74 ft. S. along fence from fence angle to W., in concrete post; standard tablet stamped "T T 22 C 1938 2574" 2, 574. 062 Lomax, 2.0 mi. NW. and 5.0 mi. SW. from, near cor. secs. 20, 21, 28, and 29,			
Lomax, 25 ft. NW. of junction of T-rd. SW. at, near cor. secs. 31, 32, 41, and 42, T. 1 S., block 34, T. & P. Ry. survey, on top of N. end of W. head wall of culvert; chiseled square. 2, 501. 43 Lomax, 1.0 mi. SW. of, near cor. secs. 31, 36, 37, and 42, T. 1 S., blocks 34 and 35, T. & P. Ry. survey, 45 ft. NW. of crossroads, in E. side of corner post of fences N. and W., 6 in. above ground; top of head of 60-penny spike. 2, 516. 01 Lomax, 1.0 mi. SW., thence 1.0 mi. NW. from, near cor. secs. 25, 30, 31, and 36, T. 1 S., blocks 34 and 35, T. & P. Ry. survey, 15 ft. S. and 42 ft. E. from junction of T-rd. W., 27 ft. N. of post at angle in fence, in concrete post; standard tablet stamped "T T 21 C 1938 2510" 2, 510. 438 Lomax, 1.0 mi. NW. and 2.0 mi. SW. from, near cor. secs. 25, 26, 35, and 36, T. 1 S., block 35, T. & P. Ry. survey, 45 ft. NE. of center of rd. at fences N. and S., in W. side of telephone pole at angle in line, 6 in. above ground; top of head of 60-penny spike. 2, 528, 94 Lomax, 1.0 mi. NW. and 3.0 mi. SW. from, near cor. secs. 26, 27, 34, and 35, T. 1 S., block 35, T. & P. Ry. survey, 40 ft. N. of center line of rd. at fences N. and S., 10 ft. E. of fence N., in SW. side of S. pole of double telephone pole, 6 in. above ground; top of head of 60-penny spike. 2, 554. 14 Lomax, 1.0 mi. NW. and 4.0 mi. SW. from, near cor. secs. 27, 28, 33, and 34, T. 1 S., block 35, T. & P. Ry. survey, 50 ft. N. of center line of rd., in S. side of third pole W. of double pole in telephone line, 6 in. above ground; top of head of 60-penny spike. 2, 558. 51 Lomax, 1.0 mi. NW. and 5.0 mi. SW. from, 1.5 mi. in air line S. and 3.5 mi. E. from Stanton, near cor. secs. 28, 29, 32, and 33, T. 1 S., block 35, T. & P. Ry. survey, on W. side of rd., 75 ft. S. and 57 ft. W. from telephone pole at angle in line, 76 ft. S. of center of cattle guard, 74 ft. S. along fence from fence angle to W., in concrete post; standard tablet stamped "T T 22 C 1938 2574" 2, 574. 062 Lomax, 2.0 mi. NW. and 5.0 mi. SW. from, near cor. secs		2 504	343
and 42, T. 1 S., block 34, T. & P. Ry. survey, on top of N. end of W. head wall of culvert; chiseled square		- , 001.	010
head wall of culvert; chiseled square			
Lomax, 1.0 mi. SW. of, near cor. sees. 31, 36, 37, and 42, T. 1 S., blocks 34 and 35, T. & P. Ry. survey, 45 ft. NW. of crossroads, in E. side of corner post of fences N. and W., 6 in. above ground; top of head of 60-penny spike		2, 501.	43
34 and 35, T. & P. Ry. survey, 45 ft. NW. of crossroads, in E. side of corner post of fences N. and W., 6 in. above ground; top of head of 60-penny spike		,	
corner post of fences N. and W., 6 in. above ground; top of head of 60-penny spike			
60-penny spike			
and 36, T. 1 S., blocks 34 and 35, T. & P. Ry. survey, 15 ft. S. and 42 ft. E. from junction of T-rd. W., 27 ft. N. of post at angle in fence, in concrete post; standard tablet stamped "T T 21 C 1938 2510" 2, 510. 438 Lomax, 1.0 mi. NW. and 2.0 mi. SW. from, near cor. secs. 25, 26, 35, and 36, T. 1 S., block 35, T. & P. Ry. survey, 45 ft. NE. of center of rd. at fences N. and S., in W. side of telephone pole at angle in line, 6 in. above ground; top of head of 60-penny spike		2, 516.	01
ft. E. from junction of T-rd. W., 27 ft. N. of post at angle in fence, in concrete post; standard tablet stamped "T T 21 C 1938 2510" 2, 510. 438 Lomax, 1.0 mi. NW. and 2.0 mi. SW. from, near cor. secs. 25, 26, 35, and 36, T. 1 S., block 35, T. & P. Ry. survey, 45 ft. NE. of center of rd. at fences N. and S., in W. side of telephone pole at angle in line, 6 in. above ground; top of head of 60-penny spike	Lomax, 1.0 mi. SW., thence 1.0 mi. NW. from, near cor. secs. 25, 30, 31,	•	
in concrete post; standard tablet stamped "T T 21 C 1938 2510" 2, 510. 438 Lomax, 1.0 mi. NW. and 2.0 mi. SW. from, near cor. secs. 25, 26, 35, and 36, T. 1 S., block 35, T. & P. Ry. survey, 45 ft. NE. of center of rd. at fences N. and S., in W. side of telephone pole at angle in line, 6 in. above ground; top of head of 60-penny spike	and 36, T. 1 S., blocks 34 and 35, T. & P. Ry. survey, 15 ft. S. and 42		
Lomax, 1.0 mi. NW. and 2.0 mi. SW. from, near cor. secs. 25, 26, 35, and 36, T. 1 S., block 35, T. & P. Ry. survey, 45 ft. NE. of center of rd. at fences N. and S., in W. side of telephone pole at angle in line, 6 in. above ground; top of head of 60-penny spike			
and 36, T. 1 S., block 35, T. & P. Ry. survey, 45 ft. NE. of center of rd. at fences N. and S., in W. side of telephone pole at angle in line, 6 in. above ground; top of head of 60-penny spike		2, 510.	438
rd. at fences N. and S., in W. side of telephone pole at angle in line, 6 in. above ground; top of head of 60-penny spike			
6 in. above ground; top of head of 60-penny spike			,
Lomax, 1.0 mi. NW. and 3.0 mi. SW. from, near cor. secs. 26, 27, 34, and 35, T. 1 S., block 35, T. & P. Ry. survey, 40 ft. N. of center line of rd. at fences N. and S., 10 ft. E. of fence N., in SW. side of S. pole of double telephone pole, 6 in. above ground; top of head of 60-penny spike			
and 35, T. 1 S., block 35, T. & P. Ry. survey, 40 ft. N. of center line of rd. at fences N. and S., 10 ft. E. of fence N., in SW. side of S. pole of double telephone pole, 6 in. above ground; top of head of 60-penny spike		2, 528.	94
of rd. at fences N. and S., 10 ft. E. of fence N., in SW. side of S. pole of double telephone pole, 6 in. above ground; top of head of 60-penny spike			
of double telephone pole, 6 in. above ground; top of head of 60-penny spike			
spike			
Lomax, 1.0 mi. NW. and 4.0 mi. SW. from, near cor. secs. 27, 28, 33, and 34, T. 1 S., block 35, T. & P. Ry. survey, 50 ft. N. of center line of rd., in S. side of third pole W. of double pole in telephone line, 6 in. above ground; top of head of 60-penny spike		0 554	14
and 34, T. 1 S., block 35, T. & P. Ry. survey, 50 ft. N. of center line of rd., in S. side of third pole W. of double pole in telephone line, 6 in. above ground; top of head of 60-penny spike		2, 554.	14
of rd., in S. side of third pole W. of double pole in telephone line, 6 in. above ground; top of head of 60-penny spike			
above ground; top of head of 60-penny spike			
Lomax, 1.0 mi. NW. and 5.0 mi. SW. from, 1.5 mi. in air line S. and 3.5 mi. E. from Stanton, near cor. secs. 28, 29, 32, and 33, T. 1 S., block 35, T. & P. Ry. survey, on W. side of rd., 75 ft. S. and 57 ft. W. from telephone pole at angle in line, 76 ft. S. of center of cattle guard, 74 ft. S. along fence from fence angle to W., in concrete post; standard tablet stamped "T T 22 C 1938 2574"	· · · · · · · · · · · · · · · · · · ·	2 558	51 ·
mi. E. from Stanton, near cor. secs. 28, 29, 32, and 33, T. 1 S., block 35, T. & P. Ry. survey, on W. side of rd., 75 ft. S. and 57 ft. W. from telephone pole at angle in line, 76 ft. S. of center of cattle guard, 74 ft. S. along fence from fence angle to W., in concrete post; standard tablet stamped "T T 22 C 1938 2574"2, 574. 062 Lomax, 2.0 mi. NW. and 5.0 mi. SW. from, near cor. secs. 20, 21, 28, and 29, T. 1 S., block 35, T. & P. Ry. survey, at NE. corner of cattle guard, 6 ft. W. of 4-in. iron-pipe gatepost at W. side of gate in fence line crossing rd., on top of large sharp-pointed stone pro-		2, 000.	01
35, T. & P. Ry. survey, on W. side of rd., 75 ft. S. and 57 ft. W. from telephone pole at angle in line, 76 ft. S. of center of cattle guard, 74 ft. S. along fence from fence angle to W., in concrete post; standard tablet stamped "T T 22 C 1938 2574"2, 574.062 Lomax, 2.0 mi. NW. and 5.0 mi. SW. from, near cor. secs. 20, 21, 28, and 29, T. 1 S., block 35, T. & P. Ry. survey, at NE. corner of cattle guard, 6 ft. W. of 4-in. iron-pipe gatepost at W. side of gate in fence line crossing rd., on top of large sharp-pointed stone pro-	mi. E. from Stanton, near cor, secs. 28, 29, 32, and 33, T. 1 S., block		•
telephone pole at angle in line, 76 ft. S. of center of cattle guard, 74 ft. S. along fence from fence angle to W., in concrete post; standard tablet stamped "T T 22 C 1938 2574"2, 574.062 Lomax, 2.0 mi. NW. and 5.0 mi. SW. from, near cor. secs. 20, 21, 28, and 29, T. 1 S., block 35, T. & P. Ry. survey, at NE. corner of cattle guard, 6 ft. W. of 4-in. iron-pipe gatepost at W. side of gate in fence line crossing rd., on top of large sharp-pointed stone pro-	35. T. & P. Rv. survey, on W. side of rd., 75 ft. S. and 57 ft. W. from		
ft. S. along fence from fence angle to W., in concrete post; standard tablet stamped "T T 22 C 1938 2574"			
tablet stamped "T T 22 C 1938 2574" 2, 574. 062 Lomax, 2.0 mi. NW. and 5.0 mi. SW. from, near cor. secs. 20, 21, 28, and 29, T. 1 S., block 35, T. & P. Ry. survey, at NE. corner of cattle guard, 6 ft. W. of 4-in. iron-pipe gatepost at W. side of gate in fence line crossing rd., on top of large sharp-pointed stone pro-			
Lomax, 2.0 mi. NW. and 5.0 mi. SW. from, near cor. secs. 20, 21, 28, and 29, T. 1 S., block 35, T. & P. Ry. survey, at NE. corner of cattle guard, 6 ft. W. of 4-in. iron-pipe gatepost at W. side of gate in fence line crossing rd., on top of large sharp-pointed stone pro-		2, 574.	062
29, T. 1 S., block 35, T. & P. Ry. survey, at NE. corner of cattle guard, 6 ft. W. of 4-in. iron-pipe gatepost at W. side of gate in fence line crossing rd., on top of large sharp-pointed stone pro-	Lomax, 2.0 mi. NW. and 5.0 mi. SW. from, near cor. secs. 20, 21, 28, and	-	
guard, 6 ft. W. of 4-in. iron-pipe gatepost at W. side of gate in fence line crossing rd., on top of large sharp-pointed stone pro-	29, T. 1 S., block 35, T. & P. Ry. survey, at NE. corner of cattle		
jecting 6 in. above ground; painted square			
	jecting 6 in. above ground; painted square	2, 574.	84

20 ft. W. of center of cattle guard, in base of post in NS. fence line, on top of reddish stone; painted square2,	Feet 653. !	98
From Big Spring South quadrangle at point 4.4 miles south and 0.9 mile southwest from Lees southwest about 3.7 miles along fence line and road into Dewey Lake No. 1 quadrangle (by E. W. Gouchenour in 1938 and 1939; leveled twice)		
Lees, 4.4 mi. by rd. S., thence 1.0 mi. SW. from, 12 ft. S. and 45 ft. E. from T-fence S. at cor. secs. 41, 42, 43, and 44, T. 2 S., block 34, T. & P. Ry. survey, in root of mesquite bush; copper nail and washer	598. (92
secs. 35, 36, 41, and 42, T. 2 S., block 34, T. & P. Ry. survey, 54 ft. N. of EW. fence, in root on N. side of twin mesquite tree; copper	EEA .	10
nail and washer		12
tablet stamped "T T 29 C 1938"	538. (556
iron pipe flush with ground	521. 7	78
Near west border of south half of quadrangle (by E. W. Gouchenour in 1938 and 1939; leveled twice)		
[A jog from Slaughter No. 3 quadrangle]		
Stanton, about 6.5 mi. by route SE. of, 4.0 mi. S. and 6.2 mi. in air line W. from Lomax, near cor. secs. 1, 6, 43, and 48, Tps. 1 and 2 S., blocks 35 and 36, T. & P. Ry. survey, 30 ft. S. and 51 ft. E. from junction of private T-rd. SE., 30 ft. S. of T-fence N., in concrete		
post; standard tablet stamped "T T 2 C 1938 2616"		
nail and washer2,	615. 8	57
		•
From Slaughter No. 3 quadrangle northeast along section line 1.4 miles to road junction 5 miles southwest and 1 mile northwest from Lomax (by E. W. Gouchenour in 1938 and 1939; leveled twice)		•
junction 5 miles southwest and 1 mile northwest from Lomax (by E. W. Gouch-	647. (
junction 5 miles southwest and 1 mile northwest from Lomax (by E. W. Gouchenour in 1938 and 1939; leveled twice) Lomax, 6.0 mi. SW. and 1.0 mi. NW. from, 1.7 mi. S. and 2.6 mi. E. from Stanton, along telephone line, 45 ft. S. of telephone pole, in base of W. side of mesquite tree; copper nail and washer		08
junction 5 miles southwest and 1 mile northwest from Lomax (by E. W. Gouchenour in 1938 and 1939; leveled twice) Lomax, 6.0 mi. SW. and 1.0 mi. NW. from, 1.7 mi. S. and 2.6 mi. E. from Stanton, along telephone line, 45 ft. S. of telephone pole, in base of W. side of mesquite tree; copper nail and washer2, From point near Trunk flag station on Texas & Pacific Railway southwest along U.S. Highway 80 to road junction 4.4 miles northeast of Stanton, thence northwest and northeast along roads into Slaughter No. 1 quadrangle (by E. W. Gouchenour		08

Stanton, 4.8 mi. NE. of, 0.4 mi. NE. of rd. N. at service sta., 30 ft. E. of crossing of private rd. and R. R. track, on NW. corner of base of electric signal box; top of bolt	2, 530	
phone pole, in concrete post; standard tablet stamped "T T 5 C 1938 2544"		. 146
sharp angle in rd., 80 ft. S. and 33 ft. W. from center of rd. at power line and gate in W. fence, in root on S. side of mesquite tree; copper nail and washer		. 91
from rd. at crossing of EW. fence line, in root on E. side of mesquite tree; copper nail and washer		. 12
45, and 46, T. 1 N., block 35, T. & P. Ry. survey, 103 ft. S. and 10 ft. W. from junction of T-rd. E., 81 ft. S. along fence from red gate, in concrete post; standard tablet stamped "T T 6 C 1938 2546". Reference mark, 255 ft. NE. of tablet, on E. side of rd., in fence line,	2, 546	. 123
in root of mesquite tree; copper nail and washer	2, 543	. 69
fence line W. of rd., in root on E. side of mesquite tree; copper nail and washer	2, 554	. 23
block 35, T. & P. Ry. survey, in base of mesquite tree; copper nail and washer	2, 590	. 88
[Line jogs into Slaughter No. 3 quadrangle] Stanton, 4.4 mi. along highway NE. and 6.5 mi. in air line N. from, at cor. secs. 22, 23, 26, and 27, T. 1 N., block 35, T. & P. Ry. survey, in base of corner post; copper nail and washer.	2, 548	. 68
From Slaughter No. 1 quadrangle along roads alternately southeast and northeast to U.S. Highway 80, thence southwest by way of Morita to point 6.8 miles northeast of Stanton (by E. W. Gouchenour in 1938–39; leveled twice to Morita)		
Morita, 3.6 mi. N. and 0.2 mi. E. in air line from, at cor. secs. 20, 21, 24, and 25, T. 1 N., block 34, T. & P. Ry. survey, at right-angle bend N. and E. in rd., on N. concrete head wall of culvert; chiseled		,
square	2, 461.	07
18 ft. S. and 20 ft. E. from intersection of rds. and fence W., 35 ft. E. of wire gate at private rd. S., in concrete post; standard tablet stamped "T T 10 C 1938 2471"	2, 471.	488
34, T. 1 N., block 34, T. & P. Ry. survey, 15 ft. S. and 30 ft. E. from center of rd. at crossing of dim trail, in root of mesquite bush; copper nail and washer	2, 471.	03

Morita, 3.2 mi. NE. of, 4.6 mi. SW. of Big Spring airport, on line between secs. 1 and 2, T. 1 S., block 34, T. & P. Ry. survey, 145 ft. N. and 5 ft. E. from junction of rd. N., 20 ft. N. along fence from fence corner, in concrete post; standard tablet stamped "T T 11 C 1938 2462"	Feet 2, 461. 915
head wall of concrete bridge over drain; chiseled square	
way, on top of concrete right-of-way stake; painted square	
side of highway; top of square concrete right-of-way postU. S. C. & G. S. B. M. designated "P 14"	2, 472. 60 2, 475. 487
Morita, 1.0 mi. SW. of, on S. side of highway right-of-way, 50 ft. N. of center line of T. & P. Ry. track; top of concrete right-of-way post_Morita, 2.4 mi. SW. of, 7.7 mi. NE. of Stanton, about 1,000 ft. E. of sign marked "Trunk 1 mile," 200 ft. E. of drain crossing, on S. side	
of highway; top of concrete right-of-way post	2, 477. 17
From point 4.4 miles northeast along U. S. Highway 80 from Stanton southwest about 1.9 miles into Slaughter No. 3 quadrangle (by E. W. Gouchenour in 1939)	
Stanton, 2.8 mi. NE. of, 45 ft. N. and 6 ft. W. from junction of private rd. N. to DuPont power storage plant, on W. end of concrete culvert; chiseled square	
NOODLE QUADRANGLE	
fr iti i oogoot googal i ii i aasoot seessali	
11.9f1f11de 32°30′-32°45′· longif11de 100°00′-100°15′1	
[Latitude 32°30′-32°45′; longitude 100°00′-100°15′] FISHER JONES NOLAN AND TAYLOR COUNTIES	
FISHER, JONES, NOLAN, AND TAYLOR COUNTIES	r. 80
	₇ 39
FISHER, JONES, NOLAN, AND TAYLOR COUNTIES From Hamlin quadrangle southwest along Kansas City, Mexico & Orient Railway into Longworth quadrangle (by E. E. Harris in 1925) McCaulley, 3.1 mi. SW. of, 1.8 mi. NE. of Sylvester, 9.0 mi. E. of Roby, 100 ft. W. of rd. crossing, on S. side of rd., 2 ft. N. of fence line, 3 ft. E. of T-angle in fence line, in stone post; standard tablet stamped	
FISHER, JONES, NOLAN, AND TAYLOR COUNTIES From Hamlin quadrangle southwest along Kansas City, Mexico & Orient Railwag into Longworth quadrangle (by E. E. Harris in 1925) McCaulley, 3.1 mi. SW. of, 1.8 mi. NE. of Sylvester, 9.0 mi. E. of Roby, 100 ft. W. of rd. crossing, on S. side of rd., 2 ft. N. of fence line, 3 ft. E. of T-angle in fence line, in stone post; standard tablet stamped "H 276 1925"	1, 842. 272
FISHER, JONES, NOLAN, AND TAYLOR COUNTIES From Hamlin quadrangle southwest along Kansas City, Mexico & Orient Railway into Longworth quadrangle (by E. E. Harris in 1925) McCaulley, 3.1 mi. SW. of, 1.8 mi. NE. of Sylvester, 9.0 mi. E. of Roby, 100 ft. W. of rd. crossing, on S. side of rd., 2 ft. N. of fence line, 3 ft. E. of T-angle in fence line, in stone post; standard tablet stamped "H 276 1925" Reference mark, 130 ft. N.30°W. of tablet, in crotch of prominent	1, 842. 272
FISHER, JONES, NOLAN, AND TAYLOR COUNTIES From Hamlin quadrangle southwest along Kansas City, Mexico & Orient Railway into Longworth quadrangle (by E. E. Harris in 1925) McCaulley, 3.1 mi. SW. of, 1.8 mi. NE. of Sylvester, 9.0 mi. E. of Roby, 100 ft. W. of rd. crossing, on S. side of rd., 2 ft. N. of fence line, 3 ft. E. of T-angle in fence line, in stone post; standard tablet stamped "H 276 1925" Reference mark, 130 ft. N.30°W. of tablet, in crotch of prominent mesquite tree; copper nail and washer Sylvester, 0.8 mi. NE. of, on E. side of track, 40 ft. S. of S. end of high-	1, 842. 272 1, 843. 21
FISHER, JONES, NOLAN, AND TAYLOR COUNTIES From Hamlin quadrangle southwest along Kansas City, Mexico & Orient Railway into Longworth quadrangle (by E. E. Harris in 1925) McCaulley, 3.1 mi. SW. of, 1.8 mi. NE. of Sylvester, 9.0 mi. E. of Roby, 100 ft. W. of rd. crossing, on S. side of rd., 2 ft. N. of fence line, 3 ft. E. of T-angle in fence line, in stone post; standard tablet stamped "H 276 1925" Reference mark, 130 ft. N.30°W. of tablet, in crotch of prominent mesquite tree; copper nail and washer Sylvester, 0.8 mi. NE. of, on E. side of track, 40 ft. S. of S. end of highway bridge over creek, on W. side of rd., on top of S. end of parapet of concrete culvert; chiseled square Sylvester, just SE. of R. R. sta., at service sta. of Tom Garland, in	1, 842. 272 1, 843. 21 1, 837. 33
FISHER, JONES, NOLAN, AND TAYLOR COUNTIES From Hamlin quadrangle southwest along Kansas City, Mexico & Orient Railway into Longworth quadrangle (by E. E. Harris in 1925) McCaulley, 3.1 mi. SW. of, 1.8 mi. NE. of Sylvester, 9.0 mi. E. of Roby, 100 ft. W. of rd. crossing, on S. side of rd., 2 ft. N. of fence line, 3 ft. E. of T-angle in fence line, in stone post; standard tablet stamped "H 276 1925" Reference mark, 130 ft. N.30°W. of tablet, in crotch of prominent mesquite tree; copper nail and washer Sylvester, 0.8 mi. NE. of, on E. side of track, 40 ft. S. of S. end of highway bridge over creek, on W. side of rd., on top of S. end of parapet of concrete culvert; chiseled square Sylvester, just SE. of R. R. sta., at service sta. of Tom Garland, in center of W. face of NW. concrete pillar support, 1 ft. above ground;	1, 842. 272 1, 843. 21 1, 837. 33
FISHER, JONES, NOLAN, AND TAYLOR COUNTIES From Hamlin quadrangle southwest along Kansas City, Mexico & Orient Railwa into Longworth quadrangle (by E. E. Harris in 1925) McCaulley, 3.1 mi. SW. of, 1.8 mi. NE. of Sylvester, 9.0 mi. E. of Roby, 100 ft. W. of rd. crossing, on S. side of rd., 2 ft. N. of fence line, 3 ft. E. of T-angle in fence line, in stone post; standard tablet stamped "H 276 1925" Reference mark, 130 ft. N.30°W. of tablet, in crotch of prominent mesquite tree; copper nail and washer Sylvester, 0.8 mi. NE. of, on E. side of track, 40 ft. S. of S. end of highway bridge over creek, on W. side of rd., on top of S. end of parapet of concrete culvert; chiseled square Sylvester, just SE. of R. R. sta., at service sta. of Tom Garland, in center of W. face of NW. concrete pillar support, 1 ft. above ground; standard tablet set vertically and stamped "H 277 1925"	1, 842. 272 1, 843. 21 1, 837. 33
FISHER, JONES, NOLAN, AND TAYLOR COUNTIES From Hamlin quadrangle southwest along Kansas City, Mexico & Orient Railwa into Longworth quadrangle (by E. E. Harris in 1925) McCaulley, 3.1 mi. SW. of, 1.8 mi. NE. of Sylvester, 9.0 mi. E. of Roby, 100 ft. W. of rd. crossing, on S. side of rd., 2 ft. N. of fence line, 3 ft. E. of T-angle in fence line, in stone post; standard tablet stamped "H 276 1925" Reference mark, 130 ft. N.30°W. of tablet, in crotch of prominent mesquite tree; copper nail and washer Sylvester, 0.8 mi. NE. of, on E. side of track, 40 ft. S. of S. end of highway bridge over creek, on W. side of rd., on top of S. end of parapet of concrete culvert; chiseled square Sylvester, just SE. of R. R. sta., at service sta. of Tom Garland, in center of W. face of NW. concrete pillar support, 1 ft. above ground; standard tablet set vertically and stamped "H 277 1925" PEACOCK NO. 1 QUADRANGLE	1, 842. 272 1, 843. 21 1, 837. 33
FISHER, JONES, NOLAN, AND TAYLOR COUNTIES From Hamlin quadrangle southwest along Kansas City, Mexico & Orient Railwa, into Longworth quadrangle (by E. E. Harris in 1925) McCaulley, 3.1 mi. SW. of, 1.8 mi. NE. of Sylvester, 9.0 mi. E. of Roby, 100 ft. W. of rd. crossing, on S. side of rd., 2 ft. N. of fence line, 3 ft. E. of T-angle in fence line, in stone post; standard tablet stamped "H 276 1925" Reference mark, 130 ft. N.30°W. of tablet, in crotch of prominent mesquite tree; copper nail and washer Sylvester, 0.8 mi. NE. of, on E. side of track, 40 ft. S. of S. end of highway bridge over creek, on W. side of rd., on top of S. end of parapet of concrete culvert; chiseled square Sylvester, just SE. of R. R. sta., at service sta. of Tom Garland, in center of W. face of NW. concrete pillar support, 1 ft. above ground; standard tablet set vertically and stamped "H 277 1925" PEACOCK NO. 1 QUADRANGLE [Latitude 33°15′-33°30′; longitude 100°00′-100°15′]	1, 842. 272 1, 843. 21 1, 837. 33
FISHER, JONES, NOLAN, AND TAYLOR COUNTIES From Hamlin quadrangle southwest along Kansas City, Mexico & Orient Railwa into Longworth quadrangle (by E. E. Harris in 1925) McCaulley, 3.1 mi. SW. of, 1.8 mi. NE. of Sylvester, 9.0 mi. E. of Roby, 100 ft. W. of rd. crossing, on S. side of rd., 2 ft. N. of fence line, 3 ft. E. of T-angle in fence line, in stone post; standard tablet stamped "H 276 1925" Reference mark, 130 ft. N.30°W. of tablet, in crotch of prominent mesquite tree; copper nail and washer Sylvester, 0.8 mi. NE. of, on E. side of track, 40 ft. S. of S. end of highway bridge over creek, on W. side of rd., on top of S. end of parapet of concrete culvert; chiseled square Sylvester, just SE. of R. R. sta., at service sta. of Tom Garland, in center of W. face of NW. concrete pillar support, 1 ft. above ground; standard tablet set vertically and stamped "H 277 1925" PEACOCK NO. 1 QUADRANGLE	1, 842. 272 1, 843. 21 1, 837. 33
FISHER, JONES, NOLAN, AND TAYLOR COUNTIES From Hamlin quadrangle southwest along Kansas City, Mexico & Orient Railwa, into Longworth quadrangle (by E. E. Harris in 1925) McCaulley, 3.1 mi. SW. of, 1.8 mi. NE. of Sylvester, 9.0 mi. E. of Roby, 100 ft. W. of rd. crossing, on S. side of rd., 2 ft. N. of fence line, 3 ft. E. of T-angle in fence line, in stone post; standard tablet stamped "H 276 1925" Reference mark, 130 ft. N.30°W. of tablet, in crotch of prominent mesquite tree; copper nail and washer Sylvester, 0.8 mi. NE. of, on E. side of track, 40 ft. S. of S. end of highway bridge over creek, on W. side of rd., on top of S. end of parapet of concrete culvert; chiseled square Sylvester, just SE. of R. R. sta., at service sta. of Tom Garland, in center of W. face of NW. concrete pillar support, 1 ft. above ground; standard tablet set vertically and stamped "H 277 1925" PEACOCK NO. 1 QUADRANGLE [Latitude 33°15′-33°30′; longitude 100°00′-100°15′]	1, 842. 272 1, 843. 21 1, 837. 33

Now the Panhandle & Santa Fe Railway.
 No bench marks were established on that portion of the line which crosses the northeast corner of Aspermont quadrangle.

PEACOCK NO. 3 QUADRANGLE

[Latitude 33°00′-33°15′; longitude 100°15′-100°30′]

STONEWALL COUNTY

From Rotan quadrangle along Rotan-Asperment road northeast into Asperment quadrangle (by E. R. Martin in 1924)

quadrangic (by 2. it. maint in 1002)		
Rotan, 14.0 mi. NE. of, at Wright School, in concrete foundation of front porch, S. of steps, 10 in. above ground; standard tablet stamped "M 15 1924"	Feet 1. 875. 13	
Reference mark, 275 ft. S. of schoolhouse, in top of concrete cistern; square hole		
Rotan, 14.8 mi. NE. of, on property of W. F. Edwards, 8 ft. S. of windmill, on SW. corner of concrete tank; chiseled cross (recovered in 1925)		
Rotan, 16.6 mi. NE. of, on property of J. W. Kennedy, 200 ft. from rd., on N. bank of creek, 30 ft. N. of windmill, in SW. corner of concrete watering trough; standard tablet stamped "M 16 1924"		•
Reference mark, 170 ft. S. of dry creek bed, 125 ft. from rd., in top of cistern; square hole (recovered in 1925)	1, 895. 31	1
Rotan, 19.7 mi. NE. of, at steel bridge over creek, in S. face of NE. abutment; standard tablet stamped "M 17 1924"	1, 749. 08	2
Reference mark, on NW. abutment of bridge; chiseled cross Rotan, 23.4 mi. N. of, at green house at turn to right in rd., SW. of		
farmhouse of B. J. Cochran, in top of concrete cistern; square hole-Rotan, 23.8 mi. N. of, 11.8 mi. SW. of Stonewall County courthouse at Aspermont, at intersection of Aspermont-Peacock rd., on prop-	1, 858. 71	-
erty of W. G. Cochran, in SW. side of base of gasoline service sta. pump; standard tablet stamped "M 18 1924"	1, 867. 77	1
Chapel, on SW. corner of foundation, on stone; chiseled cross Asperment, 10.2 mi. SW. of, near rd., on E. side of two-room house	1, 851. 22	}
facing S., in top of concrete cistern; square hole	1, 882. 77	•
19 1924"	1, 850. 81	5
in concrete post; standard tablet stamped "M 20 1924"	1, 793. 91	5
From Rotan quadrangle at point about 2 miles northwest of Red Bluff Crossing of Double Mountain Fork of Brazos River northwest to Rotan-Asperment road, thence southwest to point 14.8 miles northeast of Rotan (by C. E. Walker in 1925)		
Red Bluff Crossing, 2.3 mi. NW. of, 0.8 mi. E. of dwelling of G. T. Sparks, in SW. corner of crossroads, 2 ft. from corner of wire fence, in concrete post; standard tablet stamped "Prim Trav Sta No 17 K		
Red Bluff Crossing, 2.8 mi. NW. of, 16.6 mi. along Rotan-Asperment rd. NE., thence 0.5 mi. S. from Rotan, 0.5 mi. S. of farmhouse of W. F. Edwards, at farmhouse of Frank Sparks, on SW. corner of concrete watering tank below windmill; chiseled square	· 	ฮ
concrete watering tank below windmin, conseled square	1, 540. 04	

PLEMONS QUADRANGLE¹²

[Latitude 35°30′-36°00′; longitude 101°00′-101°30′]

CARSON, GRAY, HUTCHINSON, AND ROBERTS COUNTIES

From Miami No. 3 quadrangle southwest along Panhandle & Santa Fe Railway into Claude No. 1 quadrangle (by Tom Carney in 1926)

into claude No. 1 quadrangle (by 10m Carney in 1820)		
Pampa, 3.0 mi. along R. R. SW. of, 4.0 mi. NE. of Kings Mill, at milepost 502, 30 ft. N. of center line of highway, in concrete post; standard tablet stamped "TC 20 1926" (recovered by U. S. C. & G. S. in 1935)	Feet 3, 259.	062
From Claude No. 1 quadrangle at point about 5 miles north of White Deer north and west along road by way of Pantex into Sanford quadrangle (by Tom Carney in 1926)		
White Deer, 0.2 mi. W., thence 5.7 mi. N. from, in NE. angle of cross-roads; iron hub	3, 276.	82
White Deer, 0.2 mi. W., thence 6.7 mi. N. from, 40 ft. E. of center line		
of rd., in NE. angle of section-line fence; iron hub		
standard tablet stamped "TC 29 1926"	3, 243.	584
Reference mark, 920 ft. S. of tablet, on E. side of rd., in fence line; iron hub	2 226	36
White Deer, 1.2 mi. W. and 7.7 mi. N. from, 40 ft. N. of center line of	0, 220.	30
Pampa-oil field rd., at U-curve, in SW. corner of pasture; iron hub	3, 175.	99
White Deer, 2.2 mi. W. and 7.7 mi. N. from, 70 ft. N. of center line of	0.004	200
rd., in concrete post; standard tablet stamped "TC 30 1926" White Deer, 3.2 mi. W. and 7.7 mi. N. from, 25 ft. N. of center line of	3, 234.	583
rd.; iron hub.	3, 255.	50
White Deer, 4.2 mi. W. and 7.7 mi. N. from, 100 ft. N. of center line of	,	-
rd., at junction of T-rd. S., in concrete post; standard tablet stamped		
"TC 31 1926"	3, 215.	619
White Deer, 5.6 mi. W. and 7.7 mi. N. from, at curve NW. in rd., 30	3, 214.	20
ft. S. of rd., in fence line; iron hub	3, 261.	44
White Deer, 6.3 mi. W. and 7.7 mi. N. from, 6.0 mi. S. and 9.7 mi. E.		
from Pantex, 4 ft. N. of fence, in concrete post; standard tablet stamped "TC 32 1926"	2 245	E9.4
Pantex, 6.0 mi. S. and 9.2 mi. E. from, 360 ft. W. of creek, in line fence;	3, 245.	004
iron hub	3, 173.	46
Pantex, 6.0 mi. S. and 8.3 mi. E. from, 60 ft. W. of line fence S.; iron		
hub	3, 235.	15
Pantex, 6.0 mi. S. and 7.9 mi. E. from, 3 ft. N. of section-line fence, in concrete post; standard tablet stamped "TC 33 1926"	2 256	405
Reference mark, 120 ft. W. of tablet, in fence line; iron hub		
Pantex, 6.0 mi. S. and 7.4 mi. E. from, in fence line; iron hub		
Pantex, 6.0 mi. S. and 6.3 mi. E. from, 370 ft. E. of creek; iron hub		
Pantex, 6.0 mi. S. and 5.6 mi. E. from, 30 ft. W. of center line of Pan-		
handle-Pantex rd., in SE. fence corner, in concrete post; standard	9 170	000
tablet stamped "TC 34 1926"	5, 178.	ð28

³³ The figures of elevation given are preliminary figures based on the 1929 general adjustment; additional leveling may necessitate further adjustment.

•			
Pantex, 5.0 mi. S. and 5.5 mi. E. from, 0.4 mi. S. of Dixon Creek, 30 ft. W. of center line of rd., in rd. fence line; iron hub		Feet 152.	19
Pantex, 4.6 mi. S. and 5.3 mi. E. from, at NW. corner of bridge over			
Dixon Creek, on angle-iron cross beam; chiseled mark Pantex, 3.7 mi. S. and 5.2 mi. E. from, 0.9 mi. N. of Dixon Creek, 30	3,	055.	91
ft. W. of center line of rd., at curve NW., in concrete post; standard			
tablet stamped "TC 35 1926"		138.	865
Reference mark, 260 ft. S. of tablet, in fence line; iron hub	3,	130.	68
Pantex, 2.9 mi. S. and 5.4 mi. E. from, in sec. 107, block 5, Inter-			
national-Great Northern Ry. survey, 300 ft. SE. of Marland well No. 4, in line of telegraph poles; iron hub	3	135	66
Pantex, 1.6 mi. S. and 4.5 mi. E. from, 500 ft. N. of storage tank; iron	ο,	100.	00
hub	3,	104.	07
Pantex, 1.5 mi. S. and 3.8 mi. E. from, 200 ft. E. of Santa Fe Ry. at			
crossing of Panhandle-Pantex rd. and Pantex 4-in. oil line, 30 ft. W. of telegraph pole, in concrete post; standard tablet stamped "TC			
36 1926"	3.	218.	370
Pantex, 1.2 mi. S. and 3.0 mi. E. from, 0.8 mi. W. of crossing of Santa	-,		
Fe Ry., in sec. 117, block 5, International-Great Northern Ry.			
survey, in section-line fence; iron hub			
Pantex, 0.6 mi. S. and 1.5 mi. E. from, 50 ft. N. of rd.; iron hub Pantex, 0.3 mi. S. of, 3 ft. N. and 100 ft. E. from fence line crossing	ъ,	2 09.	12
rd., in concrete post; standard tablet stamped "TC 37 1926"			
(recovered in 1927)			
Reference mark, 60 ft. W. of tablet, in fence line; iron hub	3,	237.	69
Pantex, 1.3 mi. along Borger rd. W. of, 0.3 mi S. of rd., in SW. cor. sec. 6, block 1, B. & B. survey of Hutchinson County, 0.4 mi. E. of			
Pantex pumping sta., in NE. corner of T-angle in fence line; iron			
hub (recovered in 1927 and 1934)	3,	253.	30
From Pantex generally north along road by way of Stinnett to Dumas-Spear-			
man road, thence west into Dumas No. 1 quadrangle (by E. E. Harris in 1927; leveled twice to Stinnett)			
Pantex, 0.4 mi. W. of, on N. side of rd., 60 ft. E. of junction of rd. N.	•		
to Stinnett and Oil City; iron hub.	3, 5	216.	36
Pantex, 1.1 mi. NW. of, 80 ft. E. of rd., on small cleared hill, on rock			
outcrop; chiseled square	3,	202.	72
Pantex, 1.6 mi. NW. of, in SE. corner of crossroads, 5 ft. W. of mesquite tree; iron hub	g .	100	64
Pantex, 2.1 mi. NW. of, in concrete post; standard tablet			
Reference mark, 58.6 ft. E. of tablet, 1 ft. N. of fence line; iron hub-			
Pantex, 2.7 mi. NW. of, 30 ft. W. of rd., on S. side of drain, on prom-			
inent boulder; bottom of chiseled hole		068.	62
Pantex, 3.2 mi. NW. of, on E. bank of rd., at junction of rd. W. to R. G. Barnum well, in root on W. side of small mesquite tree; copper			
nail and washer	3. ()34.	53
Pantex, 3.9 mi. NW. of, 55 ft. W. of rd., on N. bank of drain, in prom-	٠, ٠		-
inent boulder; standard tablet stamped "H 2 1927"	3, ()48.	323
Reference mark, 61 ft. N.30°E. of tablet, on boulder; chiseled square_	3, ()52.	02
Pantex, 4.7 mi. NW. of, 40 ft. W. of rd., 1 ft. S. of fence line crossing rd.; iron hub	2 ()32.	22
Pantex, 5.2 mi. NW. of, on E. side of rd.; iron hub)32.)11.	
Pantex, 6.2 mi. NW. of, 40 ft. E. of rd., at summit of grade, at center of	-, `	- 	

·		
Reference mark, 240 ft. S.10°E. of tablet, in crotch of mesquite tree; copper nail and washer		27
Pantex, 6.6 mi. NW. of, on N. edge of sharp turn in rd., at point of	2, 010.	
cliff, at junction of rd. SW., on flat boulder; bottom of chiseled	0.000	10
Pantex, 7.6 mi. NW. of, just N. of Canadian River, on W. side of rd.,	2, 830.	19
S. of junction of rd. E. to Marland pumping sta., 55 ft. N. of		
point of cliff, on rock ledge; standard tablet stamped "H 4 1927"	2, 793.	438
Reference mark, 54 ft. S.50°E. of tablet, on sharp boulder; bottom		
of chiseled hole	2, 791.	29
Pantex, 8.3 mi. NW. of, 270 ft. N. of junction of rd. E. to Marland		
pumping sta., on W. side of rd., on prominent boulder; bottom of		
chiseled hole	2, 826.	98
Pantex, 9.4 mi. NW. of, 3.4 mi. SE. of Oil City, 6.8 mi. S. of proposed		
site of new Hutchinson County courthouse at Stinnett, 30 ft. N. of EW. rd., in line with rd. S., in concrete post; standard tablet		
stamped "H 5 1927"	2 901	388
Stinnett, 6.0 mi. S. of, at summit of grade, at junction of rd. E. to	2, 001.	000
Signal Hill, on N. side of rd.; iron hub	3, 071.	95
Stinnett, 5.1 mi. S. of, on SW. side of rd., 35 ft. S. of crossing of tele-	·	
phone line, just W. of creek crossing, in rock ledge; standard tablet		
stamped "H 6 1927"	2, 948.	063
Reference mark, 65.7 ft. S.65°W. of tablet, on top of rock ledge;	0.040	10
chiseled square	2, 948.	10
Stinnett, 4.6 mi. S. of, 300 ft. N. of creek crossing, 100 ft. N. of junction of rd. E., on W. side of rd., in root on E. side of 24-in. cotton-		
wood tree; copper nail and washer	2 936	39
Stinnett, 3.7 mi. S. of, 130 ft. N. of junction of and midway between rds.		00
E. to Signal Hill and N. to Stinnett, in concrete post; standard		•
tablet stamped "H 7 1927"	3, 072.	664
Reference mark, 93.5 ft. S. of tablet; iron hub	3, 069.	80
Stinnett, 3.0 mi. S. of, in SE. angle of crossroads, 10 ft. S. of gate in		
fence line crossing EW. rd., 1 ft. W. of fence line; iron hub	3, 143.	29
Stinnett, 1.9 mi. S. of, on E. edge of rd. junction, 2 ft. W. of fence		
line, in concrete post; standard tablet stamped "H 8 1927" (recovered by U. S. C. & G. S. in 1934)	9 1/5 '	707
Reference mark, 193.5 ft. S.15°E. of tablet; iron hub	3 142	191 15
Stinnett, 1.4 mi. S. of, in NE. angle of crossroads, 25 ft. N. and 1 ft. W.	0, 112.	10
from fence line; iron hub	3, 172.	78
Stinnett, near S. limits of, at service sta. of Pete Borger, in N. end of	•	
concrete foundation of gasoline pumps; standard tablet stamped		
"H 9 1927" (recovered by U. S. C. & G. S. in 1934)	3, 177.	707
Reference mark, 90 ft. S. of tablet; iron hub	3, 178.	07
Stinnett, in NW. corner of yard of proposed site of new courthouse,	0 107	770
in concrete post; standard tablet stamped "H 10 1927"	3, 187.	753
Stinnett, 0.8 mi. NW. of, on N. side of angle in rd., 1 ft. W. of fence line crossing rd.; iron hub	3 234	03
Stinnett, 1.8 mi. NW. of, on W. side of rd., at summit of long grade,	0, 201.	<i>5</i> 0
in NE. corner of yard of dwelling (formerly Groves School), in con-		
crete post; standard tablet stamped "H 11 1927"	3, 336.	251
Reference mark, 195 ft. S.15°W. of tablet; iron hub		
Stinnett, 2.8 mi. NW. of, on S. side of fence line crossing rd., midway		
between two driveways; iron hub	3, 335.	73

Stinnett 2.9 mi NW of an appropriate of D. E. Crosses 200 ft E. of		
Stinnett, 3.8 mi. NW. of, on property of R. F. Graves, 800 ft. E. of house, 40 ft. S. of rd., in L-angle in fence line, 4 ft. from each fence,	Feet	
in concrete post; standard tablet stamped "H 12 1927"		127
Reference mark, 80 ft. N. of tablet; iron hub	3, 357.	21
Stinnett, 4.8 mi. NW. of, 30 ft. E. of rd., 1 ft. S. of fence line crossing	0.050	ο ο .
rd.; iron hub	3, 356.	02
ing rd., in concrete post; standard tablet stamped "H 13 1927".	3, 363.	956
Reference mark, 70 ft. N.80°E. of tablet; iron hub	3, 365.	42
Stinnett, 6.6 mi. NW. of, in center of junction of EW. rd. and rd. S.,		
on top of stone post, probably section corner; SW. quadrant of	9 954	00
chiseled crossStinnett, 7.4 mi. NW. of, 9.1 mi. E. of Beede, on S. side of junction of	o, oo4.	99
Dumas-Spearman rd., 2 ft. N. of fence line W. of rd. S. through gate		
to Stinnett, in concrete post; standard tablet stamped "H 14 1927".	3, 354.	730
Reference mark, 190 ft. S.30°W. of tablet, in root on E. side of tree;	0.054	10
nailBeede, 8.4 mi. E. of, on N. side of rd., 350 ft. W. of abandoned house,	3, 354.	10
in NE. corner of T-angle in fence line, 2 ft. from each fence; iron		
hub	3, 356.	72
From point 1.4 miles south of Stinnett southeast and southwest along roads		•,
and Panhandle & Santa Fe Railway to point 3.8 miles south of Borger (by E. E. Harris in 1927; partly leveled twice)	•	
Stinnett, 2.4 mi. SE. of, in SW. corner of junction of T-rd. W., in L-		
angle in fence line, 4 ft. from each fence, in concrete post; standard		
tablet stamped "H 29 1927"		
Stinnett, 3.6 mi. SE. of, in wye of rd. fork, 35 ft. from fork, equidistant	3, 143.	40
from each rd.; iron hub	3, 099.	07
Stinnett, 4.9 mi. SE. of, 1.5 mi. S. of Signal Hill, 0.5 mi. N. of Gulf		
Camp, at junction of Signal Hill-Borger rd., on W. side of rd., 150 ft. N. of junction of rd. W., in concrete post; standard tablet stamped		
"H 30 1927"	3. 091.	550
Signal Hill, 2.4 mi. S. of, near S. end of Gulf Camp, in NE. corner of	-,	
right-angle turn in rd., 7 ft. N. and 2 ft. E. from L-angle in fence line,	0.100	00
on top of rock ledge; bottom of chiseled hole Signal Hill, 3.5 mi. S. of, 30 ft. S. of rd. at summit of grade, in fence	3, 128.	32
line, in concrete post; standard tablet stamped "H 31 1927"	3, 088.	869
Reference mark, 60.7 ft. N.15°W. of tablet; iron hub	3, 088.	
Signal Hill, 4.4 mi. S. of, on S. side of sharp turn in rd., on top of	0.074	00
small hill; iron hub	3, 074.	08
crete post; standard tablet stamped "H 32 1927" (recovered by		
U. S. C. & G. S. in 1935)	3, 007.	044
Reference mark, 57.5 ft. N.75°W. of tablet, 4 in. under ground; iron	0.000	
hub Signal Hill, 6.1 mi. S. of, 60 ft. E. of curve in rd. at culvert, on N. bank	3, 008.	14
of wash, in root on N. side of small mesquite tree; copper nail and		
washer	2, 814.	03
Signal Hill, 7.2 mi. S. of, 9.4 mi. NE. of Borger, 2.0 mi. W. of Plemons,		
on W. edge of wide turn in rd., 400 ft. S. of rd. fork in low saddle, in prominent boulder; standard tablet stamped "H 33 1927"	2 740	824
Reference mark, 60 ft. N. 60° E. of tablet, on boulder; chiseled square		
	•	

Borger, 8.2 mi. NE. of, on W. side of rd., at point of hill, on boulder; chiseled square	
Borger, 7.5 mi. NE. of, at new toll bridge over Canadian River, in W.	-,
end of N. concrete abutment; standard tablet stamped "H 34	
1927" (recovered by U. S. C. & G. S. in 1935)	2 747 186
Borger, 7.0 mi. NE. of, at new toll bridge over Canadian River, on E.	2, 111. 100
end of S. concrete abutment; chiseled square (recovered by U.S. C. &	
G. S. in 1935)	9 7/9 1/7
Borger, 6.1 mi. NE. of, 50 ft. S. of rd., 20 ft. E. of second-class rd. S.	2, 145. 141
around point of hill; iron hub	0 740 41
Borger, 4.8 mi. NE. of, near White Eagle Camp, at summit of grade,	2, 748. 41
on W. edge of rd., in concrete post; standard tablet stamped "H 35	0.000.050
1927" (recovered by U. S. C. & G. S. in 1935)	2, 803. 853
Borger, 3.8 mi. NE. of, on E. edge of turn in rd., 50 ft. N. of intersec-	
tion of second-class rd., in root on E. side of small mesquite tree;	
copper nail and washer	2, 978. 20
Borger, 3.0 mi. NE. of, at Phillips School, 25 ft. S. of E. entrance, in	
angle of concrete guardrail of steps to basement; standard tablet	
stamped "H 36 1927"	3, 047. 661
Reference mark, $110 \text{ft.} N.80^{\circ} \text{E.}$ of tablet, in angle in concrete walk of	
schoolhouse; chiseled square	3, 042. 39
Borger, 2.2 mi. NE. of, 10 ft. E. of Panhandle & Santa Fe Ry. track,	
160 ft. S. of highway crossing, at target switch, on top of section of	
rail set vertically; chiseled cross	3, 071. 30
Borger, 1.6 mi. NE. of, on E. side of highway, 25 ft. E. of track, 50 ft.	
N. of rd. crossing, in concrete post; standard tablet stamped "H 37	
1927"	
Borger, in front of sta.; top of rail	3, 114. 4
Borger, 1.2 mi. S. of, at Panhandle Camp of Marland Oil Co., in SE.	
corner of highway crossing, 55 ft. S. and 1 ft. W. from fence line, in	
concrete post; standard tablet stamped "H 38 1927" (recovered	
by U. S. C. & G. S. in 1934)	3, 164. 747
Reference mark, 55 ft. N.30°E. of tablet, on top of section of rail set	
vertically; chiseled cross	3, 164. 55
Borger, 3.4 mi. S. of, 90 ft. S. of grade crossing, 10 ft. E. of track, on top of	
section of rail set vertically; chiseled cross	3, 231. 80
From Sanford quadrangle at point about 1 mile northeast of Oil City along roads north-	
east to road junction 6.8 miles south of Stinnett (by E. E. Harris in 1927)	
Oil City, 1.4 mi. NE. of, on N. side of rd., at summit of grade, in con-	
crete post; standard tablet stamped "H 28 1927"	2 012 060
Reference mark, 78 ft. W. of tablet, in crotch of small mesquite tree;	æ, 012. 000
copper nail and washer	2 910 60
Oil City, 2.3 mi. NE. of, 50 ft. S. of rd., at summit of long grade; iron	≥ , 010. 00
hub	3 040 31
MUV	o, 015. 01
POTAN OHADBANGLE	

ROTAN QUADRANGLE

[Latitude 32°45′-33°00′; longitude 100°15′-100°30′]

FISHER AND STONEWALL COUNTIES

From Longworth quadrangle generally northwest along Roby-Rotan road to Rotan, thence north along Rotan-Asperment road into Peacock No. 3 quadrangle (by E. R. Martin in 1924)

Roby, 2.1 mi. N. of, on W. side of Roby-Rotan rd., in SW. side of bridge abutment; square hole_______1, 910. 66

Roby, 3.1 mi. N. of, 6.7 mi. S. of post office at Rotan, at steel bridge		
over South Fork of Clearfork Creek, in N. abutment; standard tab-		
let stamped "M 8 1924"		
Reference mark, on E. end of S. abutment of bridge; chiseled cross	1, 905.	00
Rotan, 5.2 mi. S. of, 150 ft. E. of rd., on S. side of North Roby School,		
9 in. from E. edge of E. balustrade of step, 14 in. above ground;	1 004	
small chiseled cross	1, 924.	96
Rotan, 3.8 mi. S. of, in NW. angle of crossroads, 4 ft. from right-of-way		٠.
fence of Missouri-Kansas-Texas R. R., 119 ft. from R. R. crossing,		
126 ft. from cattle guard and culvert, in concrete pier; standard tab-	1 001	040
let stamped "M 9 1924"		
Rotan, 2.7 mi. S. of, in E. shoulder of concrete culvert; square hole		
Rotan, 2.0 mi. S. of, in E. shoulder of concrete culvert; square hole Rotan, at post office, on NE. side of entrance, in wall, 2.5 ft. above	1, 934.	01
ground; standard tablet stamped "M 10 1924" (recovered in 1925).	1 045	516
Reference mark, on E. side of street, opposite post office entrance, at	1, 940.	210
SW. corner of rear of red brick store building, on concrete curb; chis-		
eled cross (recovered in 1925)	1 0/12	U3
Rotan, 2.5 mi. along Aspermont rd. N. of, in E. abutment of concrete	1, 942.	03
culvert; square hole	1 061	14
Rotan, 3.0 mi. N. of, in E. shoulder of concrete culvert; standard tablet	1, 501.	
stamped "M 11 1924"	1 993	939
Reference mark, on top of W. shoulder of concrete culvert; chiseled	-, 000.	
cross	1, 993.	97
Rotan, 5.7 mi. N. of, at S. end of swinging bridge over Double Moun-	,	
tain Fork of Brazos River, in E. anchor block; standard tablet		
stamped "M 12 1924"	1, 791.	360
Reference mark, 18 ft. W. and across highway from tablet, in W.		
anchor block of bridge; square hole	1, 791.	30
Rotan, 6.9 mi. N. of, at first concrete bridge N. of Double Mountain		
Fork of Brazos River, on SE. corner of bridge; chiseled square	1, 794.	62
Rotan, 7.6 mi. N. of, on top of E. abutment of concrete culvert; chis-		
eled cross (recovered in 1925)	1, 882.	56
Rotan, 8.6 mi. N. of, near Fisher-Stonewall county line, in E. end of		
concrete culvert; standard tablet stamped "M 13 1924"		
Reference mark, in top of W. abutment of culvert; chiseled square	1, 848.	55
Rotan, 10.9 mi. N. of, at double-span steel bridge, in NW. corner of N.	1 221	005
abutment; standard tablet stamped "M 14 1924"	1, 771.	235
Reference mark, 20 ft. E. of tablet, in NE. corner of N. abutment of bridge; square hole	1 771	00
oriage; square noie	1, 771.	24
From Rotan along roads northeast 4.8 miles, thence generally north into Peacock		
No. 3 quadrangle at point about 2 miles northwest of Red Bluff Crossing of Double		
Mountain Fork of Brazos River (by C. E. Walker in 1925)		
Rotan, at head of Main Street, in SW. corner of yard of city hall, in		
concrete post; standard tablet stamped "Prim Trav Sta No 1 WC		
1924"	1, 952.	533
Rotan, 2.8 mi. NE. of post office at, in NE. angle of crossroads, 30 ft.		
NE. of intersection, 2 ft. inside fence corner, in concrete post; stand-		
ard tablet stamped "9 WA 1925 Texas"	2, 030.	192
Rotan, 3.0 mi. NE. of, 720 ft. E. of crossroads, on top of center of N.		
head wall of concrete culvert; chiseled square	2, 018.	24

•		
Rotan, 3.3 mi. NE. of, about 200 ft. W. of farmhouse, on S. side of rd., on top of center of concrete head wall of culvert; chiseled squareRotan, 3.8 mi. NE. of, 105 ft. E. of crossroads, in N. side of 8-in. mes-	Feet 2, 012. 1	10
quite tree; copper nail and washer	2, 000. 4	1 1
crete post; standard tablet stamped "Prim Trav Sta No 14 K 1924" Reference mark, 15 ft. NW. of intersection, on N. end of concrete	1, 965. 1	159-
culvert, on top of center of head wall; chiseled square	1, 967. 1	16
crete pier; chiseled square	1, 876. 5	50
corner of junction of T-rd N., 20 ft. NW. of wheel with six mail boxes, in concrete post; standard tablet stamped "Prim Trav Sta No 15 K		
Rotan, 4.8 mi. by rd. NE., thence 3.0 mi. N. from, in NW. corner of crossroads, 14 ft. W. of wagon wheel with five mail boxes, in W. side	1, 909. 2	291
of 8-in. mesquite tree; copper nail and washer Rotan, 4.8 mi. NE., thence 5.0 mi. N. from, 2.2 mi. S. of Bullock Bend,	1, 875. ()7
600 ft. E. of tombstone of R. W. Millsap, near rd. junction, in concrete post; standard tablet stamped "Prim Trav Sta No 16 K 1924"_	1, 914. 9	918
Reference mark, 450 ft. due E. of marble shaft at grave of R. W. Millsap, 40 ft. SE. of rd., in NE. side of 4-in. mesquite tree; copper nail and washer	1 011 /	4 55
Rotan, 4.8 mi. NE., thence 7.3 mi. N. from, 2.3 mi. N. of Millsap grave, 0.5 mi. S. of farmhouse of William Martin, on top of plain, 15 ft. W.	1, 911. 4	ŧÐ
of rd., in fork of 6-in. mesquite tree; copper nail and washer Rotan, 4.8 mi. NE., thence 7.8 mi. N. from, near Martin farmhouse, at	1, 821. 9	95
SE. corner of barn, 75 ft. SW. of windmill, in E. side of 8-in. mesquite tree; copper nail and washer	1, 740. (01
ranch house, about 0.5 mi. S. of Red Bluff Crossing of Double Mountain Fork of Brazos River, 40 ft. S. of triangle formed in rd. fork,		
400 ft. SW. of tenant house, in concrete post; standard tablet stamped "10 WA 1925 Texas"	1, 758. 1	151
Reference mark, 350 ft. SW. of tenant house, 20 ft. W. of rd. fork, in S. side of leaning mesquite tree; copper nail and washer	1, 756.	69
cottonfield, 40 ft. S. of rd., in mesquite tree; copper nail and washer-	1, 801.	37
From point 7.6 miles north of Rotan along roads north 0.3 mile, thence west into Camp Springs quadrangle (by C. E. Walker in 1925)		
Rotan, 7.9 mi. N. of, at junction of EW. rd., 2.2 mi. N. of bridge over Double Mountain Fork of Brazos River, 3 ft. N. of wire fence, at side of EW. rd., in line with E. side of rd. S., in concrete post; stand-		
and tablet stamped "Prim Tray Ste No 3 WC 1024"	1 887 (077

ard tablet stamped "Prim Trav Sta No 3 WC 1924" _____ 1, 887. 077

SANFORD QUADRANGLE 33

[Latitude 35°30′-35°45′; longitude 101°30′-101°45′]

CARSON, HUTCHINSON, MOORE, AND POTTER COUNTIES

From Plemons quadrangle generally southwest along Borger road and across country into Amarillo No. 1 quadrangle at point 1.3 miles east of Carson-Potter county line and 0.2 mile west of Chicago, Rock Island & Gulf Railway (by Tom Carney in 1926)

Pantex, 2.3 mi. SW. of, in NW. cor. sec. 122, block 1, B. & B. survey of		
Hutchinson County, in concrete post; standard tablet stamped "TC 38 1926" (recovered in 1934)	Feet	205
Reference mark, 140 ft. E. of tablet, in fence line; iron hub		
Pantex, 3.4 mi. SW. of, 50 ft. N. of Pantex-Amarillo rd., 30 ft. W. of	0, 200.	01
section fence; iron hub	3, 224.	16
Pantex, 4.9 mi. SW. of, 2.2 mi. NE. of Deal, 600 ft. S. of rd., 3 ft. E. of	*	
fence, in concrete post; standard tablet stamped "TC 39 1926"	3, 141.	486
Reference mark, 230 ft. S. of tablet, in fence line; iron hub		
Deal, 1.2 mi. NE. of, 25 ft. S. of rd.; iron hub	3, 211.	63
Deal, in space reserved for post office park at, N.15°12'E. of SW. cor.		
sec. 3, block Y 2, Carson County, in concrete post; standard tablet		
stamped "TC 40 1926" (recovered by U. S. C. & G. S. in 1935)	3, 293.	904
Deal, 1.7 mi. SW. of, at base of rocky hill, 700 ft. E. of rd., on N. side	2 206	15
sec. 5, block 5, B. & B. survey; iron hub Deal, 2.8 mi. SW. of, 180 ft. E. of SW. cor. sec. 5, block 5, B. & B. sur-	o, ouo.	40
vey, about 180 ft. E. of rd., in concrete post; standard tablet stamped		
"TC 41 1926"	3 395	634
Reference mark, 130 ft. E. of tablet, 50 ft. E. of SW. cor. sec. 5, block	0, 000.	001
5, B. & B. survey, in fence line; iron hub	3, 390.	57
Deal, 2.8 mi. SW., thence 0.9 mi. SE. from, at SW. cor. sec. 6, block 5		
B. & B. survey, 20 ft. E. of center line of rd.; iron hub		80
Deal, 4.6 mi. along Chicago, Rock Island & Gulf Ry. SW., thence 0.2		
mi. W. from, 0.3 mi. S., thence 0.2 mi. W. from Wilhelm, 2 ft. N. of		
S. fence of sec. 7, block 5, B. & B. survey, in concrete post; standard		
tablet stamped "TC 42 1926"		
Reference mark, 80 ft. W. of tablet, in fence line; iron hub	3, 402.	12
Wilhelm, 1.3 mi. S. along R.R., thence 0.2 mi. W. from, 2 ft. N. of S.	2 405	02
fence of sec. 8, block 5, B. & B. survey; iron hub		00
mi. NE. of St. Francis, 1.1 mi. E. of Carson-Potter county line,	•	•
along S. fence of sec. 31, block Y 2, H. & T. C. R. R. Co. survey, in		
concrete post; standard tablet stamped "TC 43 1926" (recovered	•	
in 1933 and 1934)	3, 453.	876
Reference mark, 160 ft. E. of tablet, in fence line; iron hub.		
	•	
From Dumas No. 1 quadrangle at point 0.7 mile northwest of Ingerton ranch along roads generally south and east by way of Oil City into Plemons quadrangle (by		
E. E. Harris in 1927)		

Bar X ranch, 5.8 mi. S. of, 4.2 mi. by rd. W. of Oil City, at gate at W. entrance to Ingerton ranch, 15 ft. S. of E.-W. rd., 2 ft. W. of fence line, in concrete post; standard tablet stamped "H 25 1927"______ 3, 122. 776

³³ The figures of elevation given are preliminary figures based on the 1929 general adjustment; additional leveling may necessitate further adjustment.

Reference mark, 138 ft. N.10°W. of tablet, 1 ft. W. of fence line; iron hub	Fe. 3, 12	et 7.41
Oil City, 3.6 mi. W. of, at E. gate to Ingerton ranch, 40 ft. S. of rd., 1 ft. W. of fence line crossing rd.; iron hub		
Oil City, 2.4 mi. W. of, 40 ft. S. of sharp turn in rd., 1 ft. W. of fence line crossing rd.; iron hub	2, 993	
Oil City, 1.3 mi. W. of, on S. side of rd., in center of large triangle formed by junction of rd. S., in concrete post; standard tablet stamped "H 26 1927"		1 E70
Reference mark, 205 ft. W. of tablet, in root on S. side of prominent	•	
hackberry tree; copper nail and washerOil City, 0.9 mi. W. of, just E. of Carson Creek, on S. side of rd., at		
NE. corner of Marland pumping sta.; iron hub	2, 836	. 70
of Phillips lease, in L-angle in fence line, 3 ft. from each fence, in concrete post; standard tablet stamped "H 27 1927"	3, 010). 51 3
Reference mark, 150 ft. S. of tablet, on Phillips lease, in fence corner; iron hub.	•	
Oil City, 0.9 mi. E. of, about 500 ft. E. of oil well, on N. side of rd., 55 ft. E. of fence line crossing rd.; iron hub		
From Fourways quadrangle at point near Mullinaw Creek southeast along roads into	-, 00-	02
Amarillo No. 1 quadrangle at point 2 miles west of Carson-Potter county line (by C. S. Carney in 1933)		
Gunter & Munson survey, block M 20, near NW. cor. sec. 5, 125 ft. S. of bottom of creek, 100 ft. W. of center line of rd., on point of		
rock outcrop; chiseled square	2, 975	. 35
of center line of rd., 20 ft. E. of drain, in root of mesquite tree; copper nail and washer	3, 148	. 32
Gunter & Munson survey, block M 20, near line between secs. 5 and 13, on top of ridge, 565 ft. E. of point of ridge, 25 ft. S. of center line		
of rd., set in concrete; top of steel rod	3, 314	. 47
angle of rd. forks, 75 ft. SW. of E. point of triangle, 60 ft. NE. of S. point of triangle, 25 ft. S. of rd. W., 68 ft. NW. of gas pipe line under		
ground, in concrete post; standard tablet stamped "T T 46 L 1933 3318"	3. 317	. 911
Gunter & Munson survey, block M 20, in NW1/4 sec. 19, about 100 ft. W. of junction of rd. NW., 18 ft. S. of center line of rd., set in con-	-,	. •
crete; top of steel rodGunter & Munson survey, blocks M 20 and 22, near line between secs.	3, 378	. 46
19 and 9, 25 ft. N. of rd., 6 ft. S. of lone mesquite tree, set in concrete; top of steel rod	3, 362	. 44
From point 4.9 miles southwest of Pantex along roads northwest and west to Fritch, thence southwest and west into Fourways quadrangle (by C. S. Carney in 1933)		
Pantex, 3.7 mi. SW. of, 1.7 mi. E., thence 2.2 mi. SE. from Fritch post office, 240 ft. SW. of junction of Borger-Stinnett and Borger-		
Amarillo rds., 45 ft. W. of center line of Amarillo rd., 120 ft. S. of cen-		
ter line of Stinnett rd., in line with dim T-rd. N., set in concrete; top of steel rod	3, 097	54

THE		
Fritch, 1.7 mi. E., thence 1.1 mi. SE. of, 30 ft. SW. of center line of rd.		
at cattle guard, 30 ft. S. of telephone line, in fence corner, 18 in. N.	Feet	
of fence line, set in concrete; top of steel rod	3, 196.	07
Fritch, 1.7 mi. E. of post office, 1.5 mi. E. of booster sta., at junction		
of Borger-Stinnett and Amarillo-Stinnett rds., 134 ft. N. and 38 ft.		
W. from NW. fork of rds., 20 ft. N. of angle in telephone line, in		
concrete post; standard tablet stamped "T T 49 L 1933 3186"	3, 185.	718
Reference mark, 240 ft. S. of tablet, in N. point of triangle of rd. forks,		
set in concrete; top of steel rod	3, 184.	18
Fritch, 1.0 mi. E. of post office, 40 ft. NW. of center of crossroads, 90		
ft. E. of center line of private rd. N., 1 ft. N. of corner post in T-fence		
W., 6 in. E. of NS. fence line, set in concrete; top of steel rod	3, 186.	00
Fritch, about 175 ft. NW. of post office, at five-way rd. fork and angle		
in rd., 54 ft. N. of center of fork, 1 ft. SW. of fence corner, set in con-		
crete; top of steel rod	3 , 188.	95
Fritch, about 0.4 mi. SW. of sta. on Chicago, Rock Island & Gulf Ry.,		
in NW. corner of schoolyard, 108 ft. W. of NW. corner of school-		
house,34 in concrete post; standard tablet stamped "T T 50 L 1933		
3198"	3, 198.	104
Fritch, 1.4 mi. SW. of post office, 30 ft. S. of center line of rd., 18 in.		
E. of NS. fence line, set in concrete; top of steel rod	3, 200 .	84
Fritch, 2.2 mi. SW. of, at corner of Carson, Hutchinson, Moore, and		
Potter Counties; top of iron pipe	3, 202.	38
Moore-Potter county line, 0.5 mi. N. of, 0.8 mi. NW. of corner of		
Carson, Hutchinson, Moore, and Potter Counties, 6 ft. N. of center		
line of rd., 1 ft. N. of mesquite tree, set in concrete; top of steel rod	3, 184.	13
Fritch, 3.1 mi. in air line SW. of, in sec. 95, block 46, H. & T. C. R. R.		
Co. survey, in SW. corner of fence around Bivins H-1 gas well, 20		
ft. S. and 12 ft. W. from center of well, in concrete post; standard		
tablet stamped "T T 51 L 1933 3110"	3, 110.	161
Reference mark, 75 ft. N. of tablet, on boulder; chiseled square	3, 105.	40
Canadian River, 25 ft. E. of high bank of, 225 ft. SW. of pipe line, 100		
ft. NE. of telephone line, in root of mesquite tree; copper nail and		
washer	2, 889.	20
H. & T. C. R. R. Co. survey, block 47, in sec. 52, 0.8 mi. SW. of Ozier		
ranch house, 265 ft. SW. of windmill, 50 ft. S. of pipe line, in root of		
mesquite tree; copper nail and washer	2, 894.	13
H. & T. C. R. R. Co. survey, block 47, about 0.6 mi. S. of N. line		
between secs. 53 and 54, 33 ft. N. and 36 ft. W. from short fence on		
top of bluff, at point where interstate pipe line drops into valley to		
cross Canadian River, 480 ft. NE. of J. J. Perkins A-1 gas well, in		
dolomite outcrop; standard tablet stamped "T T 52 L 1933 3149".	3, 148.	592
Reference mark, 300 ft. SW. of tablet, 112 ft. S. of telephone line, in		
root of mesquite tree; copper nail and washer	3, 150.	70
Moore-Potter county line, 1.0 mi. N. of, about 4 mi. along interstate		
pipe line E. of rd. crossing Plum Creek, 30 ft. N. of center of cattle		
guard and rd. fork, 15 ft. N. of pipe line, in telephone line, 6 in. W. of		
fence line, set in concrete; top of steel rod	3, 209.	59
Moore-Potter county line, 1.1 mi. N. of, about 3 mi. E. of rd. crossing		
Plum Creek, 210 ft. N. of angle in rd., 65 ft. W. of blow-off drain in		
pipe line, 7.5 ft. N. of pipe line, in line with telephone poles, set in		
concrete; top of steel rod	3, 212.	76

 $^{^{84}}$ In 1935 it was reported that this schoolhouse had been destroyed by fire. 214917—40——6

Moore-Potter county line, 1.4 mi. N. of, in SW¼ sec. 46, block 3, Gunter & Munson survey, about 500 ft. S. of fence angle NW., 23 ft. S. of interstate pipe line, 12 ft. S. of cattle guard, on E. side of fence, in concrete post; standard tablet stamped "T T 53 L 1933 3274" Reference mark, 360 ft. W. of tablet, 60 ft. SE. of rd. fork, 35 ft. S. of telephone line, in root of mesquite tree; copper nail and washer	·	
From point near northeast corner of Amarillo No. 1 quadrangle north across country to point 2.3 miles southwest of Pantex, thence west into Plemons quadrangle (by C. S. Carney in 1934)		
 I. & G. N. R. R. Co. survey, block 5, in NW. cor. sec. 34, at intersection of telephone line and NS. fence line, 27 ft. S. of center of cattle guard, set in concrete; top of steel rod H. & G. N. R. R. Co. survey, block S, in NE. cor. sec. 5, in NS. fence 		99
Pantex, 6.0 mi. S. and 2.0 mi. W. from, 6.0 mi. N. of Pomeroy, 2 ft. W.	3, 341.	38
of fence corner at SW. cor. sec. 77, block 5, I. & G. N. R. R. Co. survey, in concrete post; standard tablet stamped "T T 19 D 1933 3299"	3, 299.	643
 0.3 ft. E. from corner stake marked "77 and 78," 1 ft. S. and 0.5 ft. E from corner of T-fence W., set in concrete; top of steel rod	3, 266.	
cor. sec. 78, 1 ft. E. of NS. fence line, set in concrete; top of steel rod- Deal, 0.5 mi. S. and 3.5 mi. E. from, 3.0 mi. S. and 2.0 mi. W. from Pantex, in NW. cor. sec. 99, block 5, I. & G. N. R. R. Co. survey, 16 ft. E. of fence corner, 2 ft. S. of fence, in concrete post; standard tablet stamped "T T 18 D 1933 3221"		
Reference mark, 268 ft. N. of tablet, in fence line, set in concrete; top of steel rod	·	
I. & G. N. R. R. Co. survey, block 5, 3 ft. S. and 0.5 ft. E. from stake at NW. cor. sec. 100, 8 ft. E. of center line of rd., in fence line, set in concrete; top of steel rod	3, 273.	44
Adams, Beaty, & Moulton survey, block 3, 2 ft. S. of marker at NE. cor. sec. 6, 6 in. W. of NS. fence line, set in concrete; top of steel rod	3, 254.	6 <u>0</u>
From point 1.4 miles north of Moore-Potter county line near middle of west border of quadrangle generally north across country and along roads into Dumas No. 1 quadrangle (by C. S. Carney in 1934)		
Gunter & Munson survey, block G & M 3, in N½ sec. 80, at top of ridge between two washes, in NWSE. fence line, set in concrete; top of steel rod	3, 265.	40
Fourways, 2.8 mi. S. and 12.0 mi. E. from junction of State Highway 5 and U. S. Highway 87 at, 1.0 mi. N. and 7.5 mi. W. from Fritch, 1 ft. N. and 4 ft. W. from rock monument 3 ft. high, 1 ft. N. of fence,		
in concrete post; standard tablet stamped "T T 12 D 1933 3277"	0, 270.	000

D. & P. R. R. Co. survey, block B 12, in SW. cor. sec. 13, 0.5 ft. N. and 1.2 ft. W. from corner of fences N. and W.; top of 1½-in. pipe D. & P. R. R. Co. survey, block B 12, in NW. cor. sec. 13, 2 ft. NW. of corner of fences S. and E.; top of 1½-in. pipe		
	0, 210.	-
[Line jogs into Fourways quadrangle]		
 T. & N. O. R. R. Co. survey, block 6 T, in NE¼ sec. 42, 30 ft. N. of center of rd. fork, set in concrete; top of steel rod T. & N. O. R. R. Co. survey, block 6 T, in N½ sec. 27, on top of ridge, 25 ft. E. of rd., 500 ft. N. of center of junction of dim rd. W., set in 	3, 316.	95
concrete; top of steel rod	·	
Across country southeast of junction of Big Blue and Grapevine Creeks (by F. J. Fricke in 1934)		
[A jog from Dumas No. 1 quadrangle]		
D. & P. R. R. Co. survey, block B 12, in sec. 1, about 1,000 ft. S. of Big Blue Creek, 1,000 ft. W. of T-fence S., 2 ft. NW. of corner post of fences NW. and E., under fence, set flush with ground and surrounded by rocks; top of iron rod.	3, 047.	30
Dumas, 7.0 mi. S. and 14.5 mi. E. from, on hill E. of Big Blue Creek, 45 ft. E. of intersection of pipe line and fence, 25 ft. W. of cattle guard, 1 ft. N. of fence, in concrete post; standard tablet stamped "T T 13 D 1933"	3, 097.	782
From Dumas No. 1 quadrangle at point 1.3 miles west of Hutchinson-Moore county line south and east along roads to point 4.2 miles west of Oil City (by F. J. Fricke in 1934)		
T. & T. R. R. Co. survey, at approximate NE. cor. sec. 4, at W. steel cattle-guard post in EW. fence line, on S. portion of concrete base, level with ground; chiseled square	3, 213.	75
Dumas, 8.0 mi. S. and 18.0 mi. E. from, 7.0 mi. N. and 1.5 mi. W. from Fritch, 8.1 mi. W. of Oil City, near NW. cor. sec. 2, J. Poitevent survey, 3 ft. N. and 1 ft. W. from corner of fences S. and E., in concrete post; standard tablet stamped "T T 14 D 1933"	3, 210.	010
Oil City, 7.1 mi. W. of, 0.2 mi. W. of Hutchinson-Moore county line, at NE. cor. sec. 2, J. Poitevent survey, 25 ft. W. of corner post of fences S. and W., in fence line, at 2-in. pipe projecting 1 ft. above ground and marking section corner; top of pipe	3, 150.	30
Oil City, 6.0 mi. W. of, at NE. cor. sec. 3, J. Poitevent survey, 0.3 mi. S. of center of cattle guard, 11 ft. E. of NS. fence line, at 2-in. pipe projecting about 1 ft. above ground and marking section corner; top of pipe	3, 126.	36
Oil City, 5.3 mi. W. of, in sec. 1, block B, Hutchinson County, about 800 ft. E. of Busby Creek, about 0.3 mi. SE. of rd. crossing creek, 25 ft. S. of 24-in. live fallen cottonwood tree, 25 ft. E. of drain, set	·	
flush with ground and surrounded by rocks; top of iron rod	<i>3</i> , 069.	25

SLAUGHTER NO. 1 QUADRANGLE

[Latitude 32°15′-32°30′; longitude 101°30′-101°45′]

HOWARD AND MARTIN COUNTIES

From northwest corner of Morita quadrangle northeast and southeast along roads and trails and back into Morita quadrangle (by E. W. Gouchenour in 1938; partly leveled twice)

Stanton, 5.4 mi. NE. along U. S. Highway 80, thence 6.5 mi. in air line N. from, 4.1 mi. N. and 5.0 mi. W. in air line from Morita, near cor. secs. 23, 24, 25, and 26, T. 1 N., block 35, Texas & Pacific Ry. survey, at fence corner on W. side of NS. rd., at corner post, in top of stake; copper nail and washer.	Fee 2, 527	
Morita, 4.3 mi. N. and 4.0 mi. W. from, 3.0 mi. SW. of Hartwell School, at cor. secs. 8, 16, 24, and 25, T. 1 N., blocks 34 and 35, T. & P. Ry. survey, 525 ft. N. along fence from corner post of T-fence W., 35 ft. N. and 94 ft. W. from NW. corner of tenant house, 3 ft. S.	2, 02,	
of S. gatepost, in concrete post; standard tablet stamped "T T 8 C 1938 2503"	2, 503	3. 392
Morita, 4.6 mi. N. and 3.0 mi. W. from, 160 ft. SE. of fence corner at cor. secs. 8, 9, 15, and 16, T. 1 N., block 34, T. & P. Ry. survey, in root on N. side of southernmost of group of mesquite trees; copper		
mail and washer	2, 474	1. 52
Ry. survey, in base of large mesquite tree; copper nail and washer-Morita, 4.2 mi. N. and 1.0 mi. W. from, about 10 mi. S. of Knott, 1.0 mi. S. of Hartwell School, about 740 ft. E. of cor. secs. 13, 14, 19, and 20, T. 1 N., block 34, T. & P. Ry. survey, 375 ft. E. of corner post of T-fence E., on top of E. bank of Calf Creek, in concrete	2, 469). 15
post; standard tablet stamped "T T 9 C 1938 2458"	2, 458	3. 268
per nail and washer	2, 478	3. 56

SLAUGHTER NO. 3 QUADRANGLE

[Latitude 32°00′-32°15′; longitude 101°45′-102°00′]

GLASSCOCK, MARTIN, AND MIDLAND COUNTIES

From Morita quadrangle at point about 2.4 miles northeast of Stanton southwest along road to Stanton (by S. G. Lunde in 1938)

Stanton, 2.2 mi. NE. of Martin County courthouse at, at cor. secs. 17,			
18, 19, and 20, T. 1 S., block 35, Texas & Pacific Ry. survey, 25 ft.			
S. of center line of rd., in N. side of corner post of T-fence S., 6 in.			
above ground; top of head of 60-penny spike	2, 6	59.	74
U. S. C. & G. S. B. M. designated "S 14"	2, 6	73.	400

In northeast corner of quadrangle (by E. W. Gouchenour in 1938)

[A jog from Morita quadrangle]

2, 564, 793

Stanton, 4.3 mi. NE., thence 6.3 mi. NW. from, at cor. secs. 21, 22,
27, and 28, T. 1 N., block 35, T. & P. Ry. survey, 51 ft. N. and 11
ft. E. from center of junction of private rd. E., 105 ft. N. and 3 ft.
W. from center line of rd. at fence W., 53 ft. N. along fence from
center of wire gate, in concrete post; standard tablet stamped "T T
7 C 1938 2565"

41.2

From northeast corner of Dewey Lake No. 2 quadrangle alternately northeast and northwest along section lines into Morita quadrangle at point 1 mile northwest and 6.4 miles southwest from Lomax (by E. W. Gouchenour in 1938 and 1939; leveled twice)	•	
Stanton, 11.6 mi. by route SE. of courthouse at, near cor. secs. 23, 24, 25, and 26, T. 2 S., block 36, T. & P. Ry. survey, 6 ft. N. and 20 ft. E. from gate in EW. fence, in root on E. side of small mesquite tree; copper nail and washer	Feet 2, 640.	51
and washer		
Reference mark, 300 ft. N. of tablet, in root of mesquite tree; copper		
nail and washerStanton, 8.6 mi. SE. of, 24 ft. N. and 90 ft. W. from T-fence N. at cor. secs. 1, 2, 11, and 12, T. 2 S., block 36, T. & P. Ry. survey, 21 ft. N. and 24 ft. W. from center of wooden gate in EW. fence line, in	2, 631.	22
root of small mesquite tree; copper nail and washer. Stanton, 7.5 mi. SE. of, at bend from N. to E. in rd., at junction of private T-rd. S., 12 ft. N. and 9 ft. W. from gate at N. entrance to Houston ranch, in root on N. side of southernmost of cluster of small mesquite trees; copper nail and washer.		٠
[Line jogs into Morita quadrangle]		
Stanton, 5.5 mi. SE. of, 6 ft. N. and 15 ft. E. from T-fence W. at cor. secs. 42, 43, 37, and 48, T. 1 S., blocks 35 and 36, T. & P. Ry. survey, in small stump at base of mesquite tree; copper nail and washerStanton, 4.4 mi. SE. of, 500 ft. N. and 70 ft. E. from T-fence W. at cor. secs. 37 and 42, T. 1 S., block 36, T. & P. Ry. survey, in crotch	2, 656.	95
of twin mesquite tree; copper nail and washer		
tablet stamped "T T 3 C 1938 2668"	2, 667.	497
From point 2 miles south and 1.5 miles east from Stanton northwest to Stanton (by E. W. Gouchenour in 1939)		
Stanton, 1.5 mi. S. of, at main entrance to Evergreen Cemetery, on concrete base of S. gatepost; painted square	2, 674.	01
From Morita quadrangle southwest along U. S. Highway 80 to Stanton (by E. W. Gouchenour in 1939)		
Stanton, 2.3 mi. NE. of, 80 ft. N. of highway, 148 ft. W. of gate at private rd. N., 3 ft. E. of T-fence N., in concrete post; standard tablet stamped "T T 4 C 1938 2650"	2, 650.	761

Stanton, at E. edge of, 60 ft. N. and 130 ft. W. from intersection of old and new highways, 6 in. W. of pipe projecting 2 ft. above Feet ground; top of 2-in. steel pipe barely projecting above concrete base_ 2, 677. 52

STRATFORD NO. 1 QUADRANGLE32

[Latitude 36°15'-36°30'; longitude 102°00'-102°15']

DALLAM AND SHERMAN COUNTIES

From Ideal quadrangle along roads west to Stratford (by E. E. Harris in 1927; single spur line)

·			
Stratford, 3.7 mi. SE. of, on N. side of rd., 40 ft. E. of private rd. N. through gate, 2 ft. N. of fence line, in concrete post; standard tablet stamped "H 80 1927"	3 /	634	277
Reference mark, 59.8 ft. E. of tablet, 1 ft. N. of fence line, 4 in. under	·.		
ground; iron hubStratford, 2.7 mi. SE. of, on N. side of rd., at junction of T-rd. S.,	3, (633.	12
1 ft. N. and 1 ft. E. from T-angle in fence line; iron hub Stratford, 1.7 mi. SE. of, on N. side of rd., at junction of T-lane S.,	3;	643.	95
at angle in fence line, 3 ft. N. of corner post; standard tablet stamped "H 81 1927"	3.	659.	773
Reference mark, 142.7 ft. E. of tablet, 1 ft. N. of fence line, 4 in. under	·		
ground; iron hubStratford, 0.7 mi. SE. of, in NE. angle of crossroads, 1 ft. N. and 1 ft.	3,	658:	60
E. from L-angle in fence line; iron hubStratford, at Chicago, Rock Island & Gulf Ry. sta., in front of win-	3,	68 2 .	85
dow of telegraph office; top of rail	3,	69 2 .	6
Stratford, 100 ft. W. of sta., at city water tank, in NE. corner of N. concrete block foundation; standard tablet stamped "H 82 1927"			
(recovered by U. S. C. & G. S. in 1933)	3, (6 92.	621
Stratford, at entrance to Sherman County courthouse, in top concrete step; standard tablet stamped "H 83 1927" (recovered by U. S.			
C. & G. S. in 1933) Reference mark, 90 ft. S. of tablet, in concrete walk to courthouse;	•	692.	535
bottom of chiseled hole		689.	68

SWEETWATER QUADRANGLE

[Latitude 32°15′-32°30′; longitude 100°15′-100°30′]

NOLAN COUNTY

From point on Texas & Pacific Railway 3.6 miles west of Sweetwater east to Sweetwater, thence south along Kansas City, Mexico & Orient Railway 35 into Blackwell quadrangle (by A. K. Andrews in 1921; double-rodded line)

U. S. C. & N. S. iron pipe with standard cap designated "R 13" 2, 36	
U. S. C. & G. S. copper bolt designated "Q 13" 2, 17	4. 608
Sweetwater, 2.6 mi. S. of, 150 ft. NE. of milepost 643, 50 ft. E. of	•
track, 30 ft. W. of NS. rd.; iron post stamped "2212" (recovered	
by U. S. C. & G. S. in 1935) 2, 21	1. 593
Sweetwater, 5.6 mi. S. of, 0.2 mi. S. of S. end of switch, 10 ft. NW. of	
milepost 646, 50 ft. W. of center line of track; iron post stamped	
"2198" (recovered by U. S. C. & G. S. in 1935) 2, 19	7. 837

²⁵ The figures of elevation given are preliminary figures based on the 1929 general adjustment; additional leveling may necessitate further adjustment.

³⁶ Now the Panhandle & Santa Fe Railway.

Sweetwater, 8.6 mi. S. of, 1.0 mi. S. of signal board, at Lake Tram sta., 600 ft. W. of S. end of Lake Trammle, 75 ft. N. of milej 649, on W. side of track; iron post stamped "1921 Texas 22 (recovered by U. S. C. & G. S. in 1935) Sweetwater, 10.6 mi. S. of, 0.5 mi. S. of signboard at Mile 12 sta. ft. W. of center line of track, 65 ft. N. of milepost 651; iron paramped "1921 Texas 2345" (recovered by U. S. C. & G. S. 1935)	post 199" Feet 2, 298. 532 , 50 post . in
Sweetwater, 13.5 mi. S. of, 3.6 mi. N. of Maryneal, 500 ft. N. of m post 654, 300 ft. S. of R. R. bridge 125, on E. side of track; iron p stamped "1921 Texas 2461" (recovered by U. S. C. & G. S. 1935)	nile- post . in
From Sweetwater northeast along Atchison, Topeka & Santa Fe Railw bridge over Sweetwater Creek, thence north along roads into Long quadrangle (by E. R. Martin in 1924; releveled by E. E. Harris in 1925	worth
Sweetwater, 4.0 mi. NE. of Nolan County courthouse at, at R. bridge crossing Sweetwater Creek, 228 ft. E. of milepost 459, 436 NW. of highway crossing, in top of W. pier, 1 ft. S. of N. end, 9 below track; standard tablet stamped "M 1 1924"	0 ft. 9 ft. 2, 035. 018 slow 2, 034. 589
WILDORADO NO. 2 QUADRANGLE 38	
[Latitude 35°15′-35°30′; longitude 102°15′-102°30′]	
OLDHAM COUNTY	
From Ady quadrangle at point about 10 miles northwest of Gray ranch n west and northeast along roads and back into Ady quadrangle at poir miles southwest of L S ranch (by S. R. Archer in 1933)	
Cottonwood Camp, 1.2 mi. along old Wildorado-Tascosa rd. S. near center of N. side sec. 81, block 5, Gunter & Munson surv 400 ft. E. of fence corner, at cattle guard and gate in EW. fe line crossing rd., 20 ft. E. of center of cattle guard, 15 ft. E. of high fence post of cattle guard, under fence, set flush with grout top of iron rod (recovered by U. S. C. & G. S. in 1935)Cottonwood Camp, 280 ft. SE. of camphouse, about 40 ft. S. of S. s.	vey, ence f E. and; 3, 561. 571
of corral fence, on E. side of NS. fence S. from corral, in conc	
of corral fence, on E. side of NS. fence S. from corral, in concepost; standard tablet stamped "T T 25 L 1933"Cottonwood Camp, 1.0 mi. N. of, 40 ft. N.20°E. of center of rd. at top of gravel ridge, midway between rds., set flush with ground surrounded by rocks; top of iron rod (recovered by U. S. Company of the content of th	rete 3, 538. 499 fork und 5. &
of corral fence, on E. side of NS. fence S. from corral, in concepost; standard tablet stamped "T T 25 L 1933"Cottonwood Camp, 1.0 mi. N. of, 40 ft. N.20°E. of center of rd. at top of gravel ridge, midway between rds., set flush with grounds.	rete 3, 538. 499 fork und 2. & 3, 596. 056 ter- ost; . S.

⁸⁷ Not included in leveling by E. E. Harris in 1925.

³⁸ The figures of elevation given are preliminary figures based on the 1929 general adjustment; additional leveling may necessitate further adjustment.

Cottonwood Camp, 3.5 mi. N. of, at crossing of EW. fence line, 20		
ft. E. of center of cattle guard, 9 ft. E. of center of gate, 3 ft. E. of		
tall fence post on E. side of gate, under fence, set flush with ground;	Feet	
top of iron rod	3, 528.	80
Cottonwood Camp, 4.4 mi. N. of, 3.4 mi. SW. of L S ranch head-		
quarters, 0.9 mi. N. of crossing of EW. fence line, 1.2 mi. S. of		
cattle guard in NS. fence line at top of bluff, 10 ft. W. of center of		
intersection of old and new rds., set flush with ground and sur-		
rounded by stones; top of iron rod (recovered by U. S. C. & G. S.		
in 1935)	3, 492.	939
L S ranch headquarters, 2.2 mi. SW. of, 2.5 mi. S. of Tascosa sta. on		
Fort Worth & Denver City Ry., on top of bluff, 127 ft. NW. along		
fence line from cattle guard across rd. in NS. fence line, in concrete		
post; standard tablet stamped "T T 27 L 1933" (recovered by		
U. S. C. & G. S. in 1935)	3, 508.	261

WILDORADO NO. 4 QUADRANGLE 30

[Latitude 35°00'-35°15'; longitude 102°00'-102°15']

DEAF SMITH, OLDHAM, POTTER, AND RANDALL COUNTIES

Southwest and northwest along road about 4 miles north and 1.5 miles east from Bushland (by S. R. Archer in 1933)

[A jog from Ady quadrangle]

Bushland, 3.3 mi. N. and 1.5 mi. E. from, 800 ft. S. and 540 ft. E. from		
center of sec. 148, block 9, Beaty, Seale, & Forwood survey, 21 ft.		
E. of corner post of fences N. and E., in concrete post; standard		
tablet stamped "T T Sta No 9 L 1928 3694"	3, 694.	004
Reference mark, 10 ft. E. of tablet, in fence line E., set flush with		
ground; top of iron rod	3, 694.	31
Bushland, 3.8 mi. N. and 1.0 mi. E. from, about 0.2 mi. S. of cor. secs.		
148, 149, 158, and 159, block 9, Beaty, Seale, & Forwood survey,		
at intersection of ranch rd. and section-line fence, 15 ft. S. of center		
of gate, 5.5 ft. S. of center of cattle guard, under fence, set flush with		
ground; top of iron rod	3, 674.	30
•		

South and northwest across country about 4 miles north and 2 miles west from Bushland (by S. R. Archer in 1933)

[A jog from Ady quadrangle]

³º The figures of elevation given are preliminary figures based on the 1929 general adjustment; additional leveling may necessitate further adjustment.

SUPPLEMENTAL ELEVATIONS IN THE TEXAS PANHANDLE

The table below shows altitudes of well-known features in the Texas Panhandle, such as summits and top-of rails at railroad stations, as assembled from records and topographic maps of the Geological Survey and from other sources.⁴⁰

These altitudes, with the exception of rail heights, which were determined by spirit leveling along the railroads, were obtained by barometric and vertical-angle measurements. The figures given are in accord with the latest information, but they are only approximate and should not be used for accurate work.

Supplemental elevations

		1	
Location	County	Quadrangle	Elevation (feet)
Alamaid C. P. I. I. C. Pa			0.040
Alanreed, C. R. I. & G. Ry	Gray	Lefors	3,043
Allen & (U. S. C. & G. S.)	Fisher	Longworth	2, 210
Amarillo, A. T. & S. F. Ry	Potter	Amarillo No. 3	
Amherst, P. & S. F. Ry	Lamb	Olton No. 3	3, 650
Antelope Peak	Carson	Sanford	3, 360
Anton, P. & S. F. Ry	Hockley	10	3, 385
Aspermont, W. V. Ry	Stonewall	Asperment	1
Augustus, P. & S. F. Ry	Garza	Post No. 3	2, 471
Bain & (U. S. C. & G. S.)	Donley	Clarendon No. 1	2, 638
Bainer, P. & S. F. Ry	Lamb	10	3, 449
Balch, P. & S. F. Ry	Lubbock	Laguna Rica No. 1	3, 335
Barwise, F. W. & D. C. Ry	Floyd	Lubbock No. 1	3, 246
Becton, F. W. & D. C. Ry	Lubbock	Lubbock No. 1	3, 253
Benonine, C. R. I. & G. Ry	Wheeler	W.heeler	2, 145
Berger, F. W. & D. C. Ry	Oldham	Channing No. 3	3, 310
Bernecker, P. & S. F. Ry	Fisher	Snyder No. 4	2, 186
Bernstein, C. R. I. & G. Ry	Hansford	Hansford No. 2	3, 136
Black, A. T. & S. F. Ry	Parmer	Friona No. 4	3, 995
Boden, F. W. & D. C. Ry	Potter	Ady	3, 251
Bovina, A. T. & S. F. Ry	Parmer	Friona No. 3	4,069
Brand, P. & S. F. Ry	Scurry	Snyder No. 2	2, 414
Branson & (U. S. C. & G. S.)	Collingsworth	Arlie No. 1	2, 212
Brickel, C. R. I. & G. Ry	Sherman	Stratford No. 1	3, 725
Briscoe, P. & S. F. Ry	Wheeler	Canadian	2, 654
Broadview, P. & S. F. Ry	Lubbock	Lubbock No. 3	3, 244
Brownfield, P. & S. F. Ry	Terry	Laguna Rica No. 3	3, 314
Burris, P. & S. F. Ry	Lubbock	Lubbock No. 3	3, 155
Canyon, A. T. & S. F. Ry	Randall.	Tulia No. 2.	3, 571
Cap Rock, P. & S. F. Ry	Garza.	Post No. 2	2, 659
Castle Peak	Taylor	Merkel	2, 400
Challis, P. & S. F. Ry	Terry	Laguna Rica No. 1	3, 338
Chamberlin, C. R. I. & G. Ry.	Dallam	Stratford No. 3	3, 959
Chorn, P. & S. F. Ry.	Scurry	Snyder No. 3	2, 355
Clarendon, F. W. & D. C. Ry	Donley	Clarendon No. 2	2, 727
Cliffside, F. W. & D. C. Ry.	Potter	Cliffside	3, 407
Coahoma, T. & P. Ry	Howard	Big Spring North	2, 412
Colorado, T. & P. Ry	Mitchell	Colorado No. 2	

⁴⁰ Gannett, Henry, A dictionary of altitudes in the United States (fourth edition): U. S. Geol. Survey Bull. 274, pp. 943-974, 1906; Avers, H. G., Precise leveling in Texas: U. S. Coast and Geodetic Survey Special Pub. 77, 1929.

Location	County	Quadrangle	Elevation (feet)
Conlen, C. R. I. & G. Ry	Dallam	Stratford No. 4	3, 817
Conway, C. R. I. & G. Ry	Carson	Claude No. 3	3, 459
Dalhart, C. R. I. & G. Ry	Dallam	Dalhart No. 4	3, 985
Dawn, A. T. & S. F. Ry	Deaf Smith	Dimmitt No. 1	3, 803
Dermott, P. & S. F. Ry	Scurry	Gail No. 1	2, 492
Doud, P. & S. F. Ry	Lubbock	Lubbock No. 3	3, 280
Dugger, P. & S. F. Ry	Garza	Post No. 2	2, 736
Edgin, F. W. & D. C. Ry	Floyd	Lockney No. 1	2, 588
Eppler, P. & S. F. Ry	Garza	Post No. 4	2, 292
Eskota, T. & P. Ry	Fisher	Longworth	1,941
Fitz, F. W. & D. C. Ry	Potter	Ady	3, 361
Flat Top Mtn	Jones-Stonewall	Hamlin	1,798
Friona, A. T. & S. F. Ry	Parmer	Friona No. 4	4,007
Fuller, C. R. I. & G. Ry	Wheeler	Wheeler	2, 183
Fullerville, P. & S. F. Ry	Scurry	Gail No. 1	2, 468
Gentry, F. W. & D. C. Ry	Potter	Cliffside	3, 460
Germania, T. & P. Ry	Midland	Slaughter No. 3	l '
Gravel, F. W. & D. C. Ry	Floyd	Lockney No. 1	2, 618
Groom, C. R. I. & G. Ry	Carson	Claude No. 4	3, 264
Gruver, C. R. I. & G. Ry	Hansford	Hansford No. 2	3, 169
Hamlin, P. & S. F. Ry	Jones	Hamlin	1,721
Haney, A. T. & S. F. Ry.	Randall	Amarillo No. 3	3, 643
Hartley, F. W. & D. C. Ry	Hartley	Channing No. 2	3, 904
Harwell △ (U. S. C. & G. S.)	Oldham	Adrian No. 4	4, 374
Hereford, A. T. & S. F. Ry	Deaf Smith	Dimmitt No. 2	3, 814
Hermleigh, P. & S. F. Ry	Scurry	Snyder No. 3	2, 442
Hitt, C. R. I. & G. Ry	Dallam	Stratford No. 3	3, 980
Iatan, T. & P. Ry	Mitchell	Big Spring No. 1	2, 215
Indian Fort Mesa	Potter	Cliffside	3, 366
Irwin, C. R. I. & G. Ry	Dallam	Stratford No. 3	3, 872
Jayton, W. V. Ry	Kent	Clairemont No. 1	2,009
Jericho, C. R. I. & G. Ry	Donley	Lefors	3, 203
Joel, A. T. & S. F. Ry	Deaf Smith	Dimmitt No. 2	3,769
John Ray Butte	Potter	Fourways	
Johnfarris, F. W. & D. C. Ry	Floyd	Lockney No. 3	
Justiceburg, P. & S. F. Ry	Garza	Post No. 4	2, 257
Kinder, F. W. & D. C. Ry	Briscoe	Lockney No. 1	1
King, C. R. I. & G. Ry	Hartley	Middle Water No. 1	1
Kitalou, F. W. & D. C. Ry	Lubbock	Lubbock No. 4	1
Kitalou, crossing of F. W. & D. C. and P. & S. F. Rys.	Lubbock	Lubbock No. 4	3, 184
Lahey, P. & S. F. Ry	Terry	Laguna Rica No. 3	3, 316
Lariat, P. & S. F. Ry	Parmer	Agua Negra No. 2	La company of the com
Lark, C. R. I. & G. Ry	Carson	Claude No. 4	
Lela, C. R. I. & G. Ry.	Wheeler	Wheeler	
Lester, A. T. & S. F. Ry	Randall	Dimmitt No. 1	3, 669
Littlefield, P. & S. F. Ry	Lamb	10	
Lloyd △ (U. S. C. & G. S.)	Nolan	Sweetwater	2,600
Lockney, F. W. & D. C. Ry	Floyd	Lockney No. 3	3, 282
Lockney, crossing of F. W. & D. C. and P. & S. F. Rys.	Floyd	Lockney No. 3	. 3, 282
Loraine, T. & P. Ry			1
Lubbock, P. & S. F. Ry			
Lubbock Junction, P. & S. F. Ry	Lubbock	Lubbock No. 3	1 3, 202

Supplemental elevations—Continued			
Location	County	Quadrangle	Elevation (feet)
McCaulley, P. & S. F. Ry	Fisher	Hamlin	1,883
McLean, C. R. I. & G. Ry	Gray	Lefors	2,859
Magenta, F. W. & D. C. Ry	Oldham	Channing No. 3	
Meadow, P. & S. F. Ry	Terry	Laguna Rica No. 1	
Merkel, T. & P. Ry	Taylor	Merkel	
Midland, T. & P. Ry	Midland	Midland No. 4	2,777
Monument Peak	Fisher	Longworth	1 '
Morita, T. & P. Ry	Howard	Morita	2,475
Morse, C. R. I. & G. Ry	Hansford	Hansford No. 3	
Muleshoe, P. & S. F. Ry	Bailey	Agua Negra No. 4	3,792
Murdo, F. W. & D. C. Ry	Oldham	Channing No. 3	3, 523
	}	Channing 140. 5	0,020
Old Glory, W. V. Ry	Stonewall	Aspermont	1,669
Parmerton, A. T. & S. F. Ry	Parmer	Friona No. 3	4, 179
Parnell, F. W. & D. C. Ry	Hall	Clarendon No. 4	1,946
Petersburg, F. W. & D. C. Ry	Hale	Lubbock No. 1	3, 255
Posey, P. & S. F. Ry	Lubbock	Tahoka No. 1	3, 152
Post, P. & S. F. Ry	Garza	Post No. 3	2, 592
Pringle, C. R. I. & G. Ry	Hutchinson	Plemons	3, 312
Pyron, P. & S. F. Ry	Scurry	Snyder No. 4	2, 365
Quitaque, F. W. & D. C. Ry	Briscoe	Lockney No. 1	2, 574
Ramsdell, C. R. I. & G. Ry	Wheeler	Wheeler	2, 564
Rehm, C. R. I. & G, Ry	Hartley	Middle Water No. 1	4,000
Rockledge, C. R. I. & G. Ry	Donley	Lefors	3, 167
Romero, C. R. I. & G. Ry	Hartley	Middle Water No. 3	4, 121
Ropes, P. & S. F. Ry	Hockley	Laguna Rica No. 1	3, 364
Roscoe, T. & P. Ry	Nolan	Colorado No. 1	2,388
Rotten Hill	Oldham	Ady	3,408
Royal, C. R. I. & G. Ry	Potter	Amarillo No. 4	3, 599
Seagraves, P. & S. F. Ry	Gaines	Seminole No. 1	3, 346
Shallowater, P. & S. F. Ry	Lubbock	Lubbock No. 3	3, 297
Shamrock, C. R. I. & G. Ry	Wheeler	Wheeler	2, 331
Skeen, P. & S. F. Ry	Lynn	Tahoka No. 3	3, 023
Skinout Mtn	Jones	Hamlin	1,960
Slaton, P. & S. F. Ry	Lubbock	Tahoka No. 1	3, 087
Snyder, P. & S. F. Ry	Scurry	Snyder No. 3	2, 359
South Plains, F. W. & D. C. Ry	Floyd	Lockney No. 3	3, 218
Southland, P. & S. F. Ry	Garza	Tahoka No. 1	3, 023
Stanton, T. & P. Ry	Martin	Slaughter No. 3	2, 664
Stratford, crossing of C. R. I. & G. and P. & S. F. Rys.	Sherman	Stratford No. 1	3, 693
Sterley, F. W. & D. C. Ry	Floyd	Lockney No. 3	3, 257
Stevens, C. R. I. & G. Ry	Sherman	Ideal	3, 535
Sudan, P. & S. F. Ry	Lamb	Agua Negra No. 4	3, 752
Summerfield, A. T. & S. F. Ry	Castro	Friona No. 4	3, 937
Sweetwater, G. C. & S. F. Ry	Nolan	Sweetwater	2, 147
Sweetwater, P. & S. F. Ry	Nolan	Sweetwater	2, 147
Sweetwater, T. &. P. Ry	Nolan	Sweetwater	2, 166
Sylvester, P. & S. F. Ry	Fisher	Longworth	1, 855
,			_, -00
Tampico, F. W. & D. C. Ry	Hall	Turkey No. 2	2, 267
Texas-New Mexico State line (near Tex-	Dallam, Texas; Un-	Clayton	4,729
line), F. W. & D. C. Ry.	ion, New Mexico.		

Location	County	Quadrangle	Elevation (feet)	
Texline, F. W. & D. C. Ry.	Dallam	Clayton	4,692	
Trent, T. & P. Ry	Taylor			
Turkey, F. W. & D. C. Ry		Turkey No. 2	2,350	
Twist, F. W. &. D. C. Ry		•	3, 966	
Umbarger, A. T. & S. F. Ry	Randall	Dimmitt No. 1	3, 768	
Vega North Base △ (U. S. C. & G. S.)	Oldham	Adrian No. 4	4, 134	
Vega South Base △ (U. S. C. & G. S.)	Deaf Smith	Adrian No. 4	4, 180	
Wellman, P. & S. F. Ry	Terry	Laguna Rica No. 3	3, 343	
Westbrook, T. & P. Ry			2, 135	
Wilsey, A. T. & S. F. Ry			4, 170	
Wolfforth, P. & S. F. Ry		Lubbock No. 3	3, 320	

APPENDIX

The following information is supplemental to that published in Bulletin 883-A, Spirit Leveling in Texas, Part 1, Western Texas, which was issued in June 1937.

SUPPLEMENTAL ELEVATIONS IN WESTERN TEXAS

The table below shows altitudes of well-known features, mostly mountain summits, in western Texas as assembled from records and topographic maps of the Geological Survey and from other sources. The figures of elevation of triangulation stations and vertical-angle bench marks included in this list and indicated respectively by "\times" and "V. A. B. M." were determined by vertical-angle measurements, while altitudes of features which have no marked point of reference were obtained by barometric observations. The figures given are in accord with the latest information, but they are only approximate and should not be used for accurate work.

Supplemental elevations

Location	County	Quadrangle	Elevation (feet)	
Adobe Walls Mtn	Brewster	Chisos Mine	4, 500	
Agua Fria Mtn. (V. A. B. M.)	Brewster	Agua Fria	4, 828	
Aguja	Presidio	Chinati Peak	5, 981	
Alamoore A, Carrizo Mtns	Hudspeth	Van Horn	5, 285	
Apache Mtns., East & (U.S.C. & G.S.)	Culberson	Kent	5, 315	
Apache Mtns., Krouse A (U. S. C. &	Culberson	Kent	5, 657	
G. S.)				
Apache Mtns., Reynolds △ (U. S. C. & G. S.)	Culberson	Kent	5, 390	
Apache Mtns., Seay △ (U. S. C. & G. S.)	Culberson	Kent	4, 023	
Apache Mtns., West & (U. S. C. & G. S.)_	Culberson	Kent	5, 110	
Apache Peak	Culberson-Hudspeth	Van Horn	5, 696	
Anthony's Nose	El Paso	Fort Bliss	6, 906	
Arbuckle∆, Cave Mesa	Pecos	Hovey	4, 420	
Polds Pools Polds A	Toff Downia	Walentine	0.000	
Baldy Peak, Baldy A				
Baylor Mtns., Baylor △				
Beach Mtn. (V. A. B. M., NW.)				
Beach Mtn. (V. A. B. M., S.)			,	
Beard Mtn., Beard △(U. S. C. & G. S.)	Pecos	Fort Davis	5, 012	

¹ Gannett, Henry, A dictionary of altitudes in the United State (fourth edition): U. S. Geol. Survey Bull. 274, pp. 943-974, 1906; Garner, C. L., Precise triangulation in Texas, Rio Grande arc: U. S. Coast and Geodetic Survey Special Pub. 78, pp. 31-32, 1922.

Location	County	Quadrangle	Elevation (feet
Bee Mtn	Brewster	Chisos Mine	3, 460
Bee Mtn	Brewster	Emory Peak	3, 376
Big Aguja Mtn	Jeff Davis	Fort Davis	5, 743
Big Christmas △, Christmas Mtns	Brewster	Paint Gap	5, 735
Bissett Mtn. (V. A. B. M.)	Brewster	Altuda	5, 481
Black Hill, La Negra	Brewster	Agua Fria	4, 007
Black Hills	Presidio	Fort D A Russell	5, 550
Black Knob A	Brewster.	Chilicotal	2, 617
Black Mtn. A	Jeff Davis	Fort Davis	7, 550
Black Peak.	Brewster	Monument Spring	4, 958
Black Peak	Culberson	Kent	4, 710
Black Peak, Black Cap∆	Brewster	Nine Point Mesa	4, 818
Blue Mtn	Jeff Davis	Valentine	7, 330
Boracho Peak	Jeff Davis	Valentine	5, 661
Buck Hill, Buck∆	Brewster	Buck Hill	4, 203
Bush Mtn., Bush △	Culberson	Guadalupe Peake	8,676
Butcherknife Hill	Brewster	Buck Hill	4,050
Butterbowl	Brewster	Nine Point Mesa	1 '
Butternowi	Drewster	Nine Point Wess	4, 104
Camels Hump	Brewster	Agua Fria	3, 671
Canyon Flag △, Mesa de Anguila	Brewster	Terlingua Abaja	3, 884
Capote Peak	Presidio	San Carlos	6, 185
Carrizo Mtns., Alamoore∆	Hudspeth	Van Horn	5, 285
Casket Mtn	Jeff Davis	Fort Davis	6, 180
Cathedral Mtn	Brewster	Alpine	6, 860
Cathedral Mtn. (V. A. B. M.)	Brewster	Altuda	6, 125
Cave Mesa, Arbuckle∆	Pecos	Hovey	4, 420
Cerro Alto∆	Hudspeth	Cerro Alto	6, 767
Cerro Boludo	Presidio	Jordan Gap	4, 746
Cerro Castellan, Sierra Castellan∆	Brewster	Emory Peak	3, 283
Cerro Diablo	Hudspeth	Salt Basin	5, 700
Chancellor∆, Pikes Peak (U. S. C. & G. S.).	Pecos	Hovey	3, 858
Chilicotal Mtn. (V. A. B. M.)	Brewster	Chilicotal	4, 104
Chinati Peak, Chinati▲	Presidio	Chinati Peak	7, 730
Chisos∆, Emory Peak	Brewster	Emory Peak	7,835
Chispa Mtn., Chispa∆	Culberson	Chispa	5, 215
Christmas Mtns., Big Christmas △	Brewster	Paint Gap	5, 735
Christmas Mtns., North Christmas A	Brewster	Paint Gap	5, 460
Cienega Mtn	Brewster	Alpine	6, 600
Cienega Mtns	Presidio	Cienega	5, 227
Cigar Mtn	Brewster	Chisos Mine	3, 290
Cone Peak A	Culberson	Guadalupe Peake	5, 080
Cone A, Spring Hill	Culberson	Kent	4, 955
Corazones Peak, West Corazones A	Brewster	Paint Gap	5, 306
Coyote Peak.	Culberson	Guadalupe Peake	6, 658
Croton Peak A	Brewster	Paint Gap	4,600
Crown Mtn	Brewster	Paint Gap	7, 186
Cutoff A	Hudspeth	Guadalupe Peake	6, 910
Davis Mtns., Newman∆ (U. S. C. & G. S.).	Jeff Davis	Valentine	6, 390
Delaware Mtns., Delaware △	Culberson	Van Horn	5, 870
Del Norte∆, Santiago Mtns	Brewster	Santiago Peak	5,602
Devils Backbone	Brewster	Marathon	4, 081
Diablo∆, Sierra Diablo	Hudspeth	Van Horn	6, 513
Dogie Mtn	Brewster	Paint Gap	3, 700
Dome Peak	Hudspeth	Sierra Blanca	5, 400
	Brewster	Buck Hill	5, 400 5, 071
Dome∆, Round Hill Dugout Mtn	Brewster	Monument Spring	5, 195
Eagle Mtn., Eagle∆	Hudspeth	Eagle Mtn	7, 516
East∆, Apache Mtns. (U. S. C. & G. S.).	Culberson	Kent	5, 315

Location	County	Quadrangle	Elevation (ieet	
El Capitan.	Culberson	Guadalupe Peake	8,078	
El Capitan∆, Guadalupe Peake	Culberson	Guadalupe Peake	8, 751	
El Muerto Peak	Jeff Davis	Valentine	5, 800	
Elephant Mtn	Brewster	Alpine	6, 210	
Elephant Mtn	Brewster	Buck Hill	5, 067	
Emory Peak, Chisos∆	Brewster	Emory Peak	7, 835	
Flattop∆,San Martine Peak(U.S.C.&G.S.)		Kent	3, 909	
Forks∆	Culberson	Guadalupe Peake	4, 232	
Fresno Peak, Fresno∆	Presidio	Lajitas	5, 131	
Frijole <u>∆</u>	Culberson	Guadalupe Peake	8, 245	
Gage <u>∆</u>	Brewster	Monument Spring	4,455	
Garden Springs∆	Brewster	Monument Spring	4, 465	
Gemelo Mesa	Presidio	Jordan Gap	5, 065	
Gemelo Mesa, Sharp Rock∆	Presidio	Jordan Gap	4, 953	
Gettysburg Peak	Presidio	San Carlos	4,897	
Gillion∆, Old Blue Mtn	Brewster	Altuda	6, 286	
Glass≜	Pecos	Hess Canyon	5, 473	
Goat Mtn	Brewster	Alpine	6, 700	
Goat Mtn	Brewster	Emory Peak	4, 537	
Gomez Peak∆	Jeff Davis	Kent	6, 323	
Graytop (V. A. B. M.)	Brewster	Nine Point Mesa	4, 356	
Guadalupe Peake,² El Capitan∆	Culberson	Guadalupe Peake	8, 751	
Guadalupe Summit∆	Culberson	Guadalupe Peake	5, 446	
Hackett Peake	Hudspeth	Van Horn	5, 280	
Hat Mtn	Presidio	Jordan Gap	5, 300	
Hen Egg Mtn., Hen Egg∆	Brewster	Chisos Mine	5,002	
Horse Mtn., Horse∆	Brewster	Marathon	5, 010	
Housetop Mtn	Presidio	Jordan Gap	5, 337	
Indian Head	Brewster	Chisos Mine	3, 495	
Indianola Peak	Brewster	Emory Peak	5, 240	
Iron Mtn	Brewster	Altuda	5, 420	
Kit Mtn	Brewster	Emory Peak	3, 803	
Krouse∆, Apache Mtns. (U. S. C. & G. S.)	Culberson	Kent	5, 657	
La Mota Mtn	Presidio	Tascotal Mesa	5, 046	
La Negra∆, Black Hill	Brewster	Agua Fria	4,007	
La Viuda	Presidio	Tascotal Mesa	4,080	
Lava∆	Brewster	Hood Spring	4, 105	
Leonard Mtn., Leonard △	Brewster	Hess Canyon	5, 860	
Little Aguja Mtn	Jeff Davis	Fort Davis	4, 910	
Lone Cone	Culberson	Guadalupe Peake	4, 476	
Lone Mtn	Brewster	McKinney Springs,	4, 132	
Lost Mine Peak (V. A. B. M.)	Brewster	Paint Gap	7, 550	
Lost Peak, Lost∆	Culberson	Guadalupe Peake	7, 834	
McKinney Mtn	Brewster	Jordan Gap	5, 000	
McKittrick A	Culberson	Guadalupe Peake	7, 052	
Major Peak	Jeff Davis	Fort Davis	5, 822	
Marathon ≜	Brewster	Marathon	4, 553	
Mariscal Mtn., Mariscal △	Brewster	Chilicotal	3, 940	
Mesa de Anguila, Canyon Flag∆	Brewster	Terlingua Abaja	3, 884	
Mitchell Mesa, Mitchell △	Brewster	Buck Hill	5, 351	
Mitre Peak	Jeff Davis	Alpine	6, 100	
Mount Ord, Ord∆	Brewster	Alpine	6,814	
Mule Ear Peaks	Brewster	Emory Peak	3, 880	

³ Highest point in the State thus far determined:

Location	County	Quadrangle	Elevation (feet)
	 		
Needle Peak	Presidio	Tascotal Mesa	4, 225
Newman∆, Davis Mtns (U.S.C. & G.S.).	Jeff Davis	Valentine	6, 390
Nine Point Mesa		Nine Point Mesa	5, 551
Nipple Hill	Culberson	Guadalupe Peake	5, 694
North Christmas △, Christmas Mtns		Paint Gap	5, 460
North Diablo∆, Sierra Diablo		Van Horn	6, 630
North Franklin∆		Fort Bliss	7, 141
North Mtn	Pecos	Hovey	1 '
Nugent Mtn	Brewster	McKinney Springs_	4, 783
Old Blue Mtn., Gillion▲	Brewster	Altuda	6, 286
Ord≜, Mount Ord	Brewster	Alpine	6, 814
Packsaddle Mtn	Brewster	Agua Fria	4, 661
Paint Gap Hills	Brewster	Paint Gap	4, 258
Paint Mtn	Brewster	Agua Fria	3, 471
Paisano Peak	Jeff Davis	Alpine	6, 050
Panther Mesa	Pecos	Hovey	4,410
Pikes Peak, Chancellor (U.S. C. &. G.S.)	Pecos	Hovey	3, 858
Pine Mesa	Pecos	Hovey	4, 550
Pinks Peak	Brewster	Chisos Mine	3, 681
Post Mtn	Presidio	Lajitas	4,600
Post A.	Brewster	Monument Spring	4, 255
Pummel Peak	Brewster	McKinney Springs	6, 630
Quitman Mtns	Hudspeth	Fort Hancock	6, 500
Red Bluff	Brewster	Agua Fria	4,016
Red Hill	Presidio	Jordan Gap	4, 054
Reynolds A pache Mtns. (U. S. C. & G. S.).	Culberson	Kent	5, 390
Rim A	Culberson	Guadalupe Peake	5, 632
Rincon Mtn	Presidio	Lajitas	4, 410
Rosillo Peake, Rosillos∆	Brewster	Bone Spring	5, 420
Rosillos Mountains	Brewster	Nine Point Mesa	5, 373
Round Hill, Dome A	Brewster	Buck Hill	5, 071
Round Mtn	Hudspeth	Sierra Blanca	5, 100
Round Mtn., Round (U. S. C. & G. S.).	Reeves	Toyah	3, 298
Roys Peak	Brewster	McKinney Springs	3, 935
San Antonio Mtn. (V. A. B. M.)	Hudspeth Presidio	Cerro Alto	7,020
San Jacinto Mtn., San Jacinto∆	Reeves	Jordan Gap Kent	4,965
G. S.).			3, 909
Santiago Mtns., Del Norte∆	Brewster	Santiago Peak	5, 602
Santiago Mtns., South Pass △	Brewster	Bone Spring	4, 150
Santiago Mtns., S W PA	Brewster	Santiago Peak	4, 915
Santiago Mtns., White Ends	Brewster	Santiago Peak	5, 354
Santiago Peak, Santiago∆	Brewster	Santiago Peak	6, 521
Sawmill Mtn	Brewster	Chisos Mine Valentine	3, 795 7, 748
Sawtooth Mtn	Culberson	Kent	4, 023
Sharp Rock A, Gemelo Mesa	Presidio	Jordan Gap	4, 953
Sheep Peak	Hudspeth	Van Horn	6, 055
Sierra Aguja	Brewster	Terlingua Abaja	3, 281
Sierra Blanca Peak	Hudspeth	Sierra Blanca	6, 950
Sierra Castellan A, Cerro Castellan	Brewster	Emory Peak	3, 283
Sierra Diablo, Diablo	Hudspeth	Van Horn	6, 513
Sierra Diablo, North Diablo	Hudspeth	Van Horn	6, 630
Sierra Vieja, Vieja	Presidio	San Carlos	6, 467
Sist∆ (U. S. C. & G. S.)	Reeves	Barstow	2,617
Slickrock Mtn	Brewster	Paint Gap	4, 001

APPENDIX

Location	County Quadrangle		Elevation (feet)	
Solitario Peak	Presidio	Lajitas	4, 700	
South PassA, Santiago Mtns	Brewster	Bone Spring	4, 150	
Spring Hill, Cone≜	Culberson	Kent	4, 955	
Star Mtn., Star A	Jeff Davis	Fort Davis	6, 344	
Straddlebug Mtn. (V. A. B. M.)	Brewster	Buck Hill	3, 940	
Stuarts Peak A	Brewster	McKinney Springs	5, 106	
Study Butte	Brewster	Chisos Mine	2, 835	
S W P∆, Santiago Mtns	Brewster	Santiago Peak	4, 915	
Tabernacle Mtn	Hudspeth			
Talley Mtn	Brewster	Chilicotal	3, 850	
Tepee Butte	Hudspeth	Cerro Alto	5, 173	
Three Mile Hill	Brewster	Santiago Peak	4, 035	
Toyah (U. S. C. & G. S.)	Reeves	Toyah	3, 375	
Trap Mtn	Brewster	Emory Peak	4, 135	
Tres Cuevas Mtn	Brewster	Terlingua Abaja	3, 635	
Triple Butte	Pecos	Hovey	3, 810	
Tule Mtn	Brewster	Paint Gap	3, 833	
Turney Peak, Turney A	Brewster	Jordan Gap	4, 849	
Upper Flattop Hill	Brewster	Nine Point Mesa	4, 140	
Victoria Peak	Culberson	Van Horn	6, 432	
Vieja∆, Sierra Vieja	Presidio	San Carlos	6, 467	
West Corazones △, Corazones Peak	Brewster	Paint Gap	5, 306	
West△, Apache Mtns. (U. S. C. & G. S.).	Culberson	Kent	5, 110	
White Ends∆, Santiago Mtns	Brewster	Santiago Peak	5, 354	
Willow Mtn	Brewster	Chisos Mine	3, 830	

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