



BASCOM GILES  
COMMISSIONER  
GENERAL LAND OFFICE  
AUSTIN, TEXAS

~~FILE NO. 5~~

~~MISCELLANEOUS MAPS, ETC. --- PINE CABINET NO. 1~~

*IN FLAT FOLDER*

*Zapata*

*See Below*

COUNTY ROLLED SKETCH NO.

*# 23*

SURVEYED *1946-48*

BY *Bryan Estes, LSL*

FILED *2-19-76*

Field notes of Traverse along the U. S. bank of the Rio Grande (Line of vegetation) from the Starr-Zapata County line to the International Boundary Commission Triangulation Station "SL-60"

Surveyed by Bryan Estes during 1946, 1947 and 1948 for the International Boundary and Water Commission, United States and Mexico.

Received and filed in the General Land Office August 19, 1948.

*counter 49630*





OFFICE OF THE COMMISSIONER  
UNITED STATES SECTION

INTERNATIONAL BOUNDARY AND WATER COMMISSION  
UNITED STATES AND MEXICO  
FIRST NATIONAL BANK BUILDING  
EL PASO, TEXAS

August 16, 1948

Mr. Bascom Giles,  
Commissioner,  
State Land Office,  
Austin, Texas.

Dear Mr. Giles:

Reference is made to the conference held in your office on May 17, 1948, attended by members of your staff and Counsel Frank B. Clayton and Engineer Bryan Estes of this Commission. It was agreed at that time that this Commission would file with the State Land Office the field notes of our traverse along the United States bank of the Rio Grande (line of vegetation) from the Starr-Zapata County line to the International Boundary Commission Triangulation Station S. L. 60.

Accordingly, there is enclosed herewith for your information and files a copy of the field notes for this traverse.

Very truly yours,

*L. M. Lawson*

L. M. Lawson  
Commissioner

Enclosure:

Copy of IBWC field notes.

File No. 5 Misc

STARR AND ZAPATA County

LINE OF TRAVERSE  
ALONG RIO GRANDE

Filed AUG 19<sup>th</sup>, 1948

BASCOM GILES, Com'r

*William D. Smith*  
File Clerk

RECEIVED

AUG 19 1948

REFERRED TO MAP

FILE IN PINE CABINET NO. 1

Zapata Co Roll Sketch No. 1

counter 49/631

I-5

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I-5

TRAVERSE ALONG THE BANK OF THE RIO GRANDE (LINE OF VEGETATION) ON THE UNITED STATES SIDE FROM STARR-ZAPATA COUNTY LINE TO I. B. & W. C. TRIANGULATION STATION SL 60 AS SURVEYED BY I. B. & W. C. IN 1946, 1947 & 1948.

(Coordinates shown are Lambert Plane Coordinates, Texas South Zone. Distances are measured in feet.)

Station	Bearing	Distances	Coordinates (Feet)	
			North	East
Large Stone S-Z Co. Line Marker.			339,393.84	1,795,181.58
	S54°19'W	13,251.00		
Large Stone S-Z Co. Line Marker. Probably Buena Noche Corner.			331,663.36	1,784,419.52
	S54°19'W	666.10		
Intersection of S-Z Co. Line & River Bank.			331,274.82	1,783,878.48
River Pt. 1	N12°27'W	605.14		
River Pt. 2			331,865.73	1,783,748.09
" " 3	N30°10'W	461.01		
" " 4	N40°14'W	146.42		
" " 5	N40°08'W	341.42		
" " 6	N36°26'W	868.38		
" " 7	N42°15'W	451.37		
" " 8	N52°12'W	1365.95		
" " 9	N40°20'W	825.59		
" " 9A	N56°17'W	407.13		
" " 10	N61°52'W	811.51		
" " 11	N55°40'W	1527.90		
" " 12	N06°10'W	1136.58		
			337,736.75	1,778,330.97

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Starr-Zapata Co. Survey

County 49632

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Station	Bearing	Distance	Coordinates (Feet)	
			North	East
River Pt. 12			337,736.75	1,778,330.97
" " 13	N12°35'E	898.61	338,613.78	1,778,526.68
" " 14	N27°20'E	439.24	339,003.98	1,778,728.42
" " 15	N28°07'E	931.12	339,825.22	1,779,167.25
" " 15A	N26°08'E	684.19	340,439.47	1,779,468.53
" " 16	N18°07'E	737.07	341,140.00	1,779,697.75
" " 17	N15°38'E	503.06	341,624.45	1,779,833.25
" " 18	N13°29'E	635.21	342,242.15	1,779,981.33
" " 19	N10°20'E	1578.22	343,794.77	1,780,264.21
" " 19A	N08°55'E	395.96	344,185.94	1,780,325.54
" " 19B	N09°03'E	1825.85	345,989.06	1,780,612.94
" " 20	N01°22'W	978.25	346,967.03	1,780,589.61
" " 20A	N03°06'E	693.42	347,659.44	1,780,627.02
" " 21	N03°32'W	499.38	348,157.87	1,780,596.30
" " 21A	N02°19'W	792.62	348,949.84	1,780,564.26
" " 22	N12°25'W	685.72	349,619.52	1,780,416.79
" " 23	N32°39'W	338.17	349,904.25	1,780,234.39
" " 24	N52°10'W	79.13	349,952.79	1,780,171.89
" " 25	N84°05'W	928.51	350,048.63	1,779,248.33
" " 26	S79°20'W	684.42	349,921.90	1,778,575.74
" " 27	S80°32'W	419.18	349,852.94	1,778,162.27
" " 28	N87°01'W	772.80	349,893.26	1,777,390.52
" " 29	N84°42'W	108.86	349,903.30	1,777,282.13
" " 30	N67°37'W	549.58	350,112.64	1,776,773.96
" " 31	N58°26'W	603.91	350,428.71	1,776,259.41
" " 32	N56°52'W	906.46	350,924.19	1,775,500.34
" " 33	N50°22'W	921.60	351,511.90	1,774,790.58

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counter 49633

H<sup>3</sup>



Station	Bearing	Distance	Coordinates (Feet)	
			North	East
River Pt. 33			351,511.90	1,774,790.58
" " 34	N50°30'W	1115.35	352,221.31	1,773,929.95
" " 35	N48°17'W	820.84	352,767.68	1,773,317.24
" " 36	N29°37'W	840.77	353,498.60	1,772,901.82
" " 37	N11°44'W	1195.21	354,668.84	1,772,658.71
" " 38	N07°55'E	1459.61	356,114.54	1,772,859.69
" " 39	N10°26'E	411.49	356,519.23	1,772,934.26
" " 40	N11°10'E	240.89	356,755.56	1,772,980.94
" " 40A	N12°34'E	214.79	356,965.20	1,773,027.69
" " 41	N04°13'E	528.09	357,491.86	1,773,066.47
" " 42	N07°13'W	515.72	358,003.49	1,773,001.72
" " 43	N12°11'W	362.51	358,357.84	1,772,925.19
" " 44	N17°08'W	240.59	358,587.75	1,772,854.28
" " 45	N17°33'W	521.27	359,084.76	1,772,697.14
" " 46	N19°28'W	500.86	359,556.99	1,772,530.22
" " 47	N21°11'W	622.65	360,137.57	1,772,305.28
" " 48	N18°25'W	449.82	360,564.35	1,772,163.17
" " 49	N21°15'W	555.15	361,081.75	1,771,961.91
" " 50	N23°34'W	258.71	361,318.88	1,771,858.49
" " 51	N23°13'W	489.39	361,768.64	1,771,665.62
" " 52	N28°24'W	644.54	362,335.61	1,771,359.02
" " 53	N25°31'W	451.44	362,743.02	1,771,164.51
" " 53A	N24°39'W	632.99	363,318.33	1,770,900.56
" " 54	N23°47'W	876.58	364,120.47	1,770,547.10
" " 55	N19°27'W	464.65	364,558.60	1,770,392.44
" " 56	N10°47'W	776.99	365,321.87	1,770,247.08
" " 57	N09°48'W	479.60	365,794.47	1,770,165.40

ES 22 N 50 W - 579.5

counter 49634

H4



Station	Bearing	Distance	Coordinates (Feet)	
			North	East
River Pt. 57			365,794.47	1,770,165.40
" " 58	N09°44' W	506.48	366,293.66	1,770,079.75
" " 59	N11°30' W	399.92	366,685.55	1,770,000.01
" " 60	N08°11' W	288.45	366,971.06	1,769,958.91
" " 61	N17°54' W	173.97	367,136.61	1,769,905.44
" " 62	N09°19' W	269.22	367,402.28	1,769,861.83
" " 63	N07°43' W	267.42	367,667.28	1,769,825.90
" " 64	N12°20' W	646.43	368,298.79	1,769,687.89
" " 64A	N13°24' W	751.29	369,029.63	1,769,513.88
" " 65	N13°35' W	1073.05	370,072.67	1,769,261.79
" " 66	N04°02' W	472.38	370,543.88	1,769,228.54
" " 67	N03°23' W	1179.73	371,721.55	1,769,158.83
" " 68	N04°55' W	321.61	372,041.98	1,769,131.30
" " 69	N02°25' W	474.59	372,516.15	1,769,111.23
" " 70	N02°06' E	532.07	373,047.86	1,769,130.80
" " 71	N02°49' E	273.60	373,321.13	1,769,144.25
" " 72	N10°44' E	164.04	373,482.30	1,769,174.82
" " 73	N06°51' W	362.86	373,842.57	1,769,131.49
" " 74	N03°07' W	323.23	374,165.32	1,769,113.88
" " 75	N00°26' W	373.03	374,538.34	1,769,111.07
" " 76	N01°34' W	363.48	374,901.68	1,769,101.10
" " 77	N07°25' W	799.15	375,694.14	1,768,997.85
" " 78	N08°26' W	656.60	376,343.64	1,768,901.56
" " 79	N01°47' W	348.06	376,691.53	1,768,890.77
" " 80	N02°36' W	1257.27	377,947.51	1,768,833.75
" " 81	N01°23' E	1712.16	379,659.17	1,768,874.93
" " 82	N05°37' E	332.89	379,990.46	1,768,907.51

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counter 49635

H<sup>5</sup>



Station	Bearing	Distance	Coordinates (Feet)	
			North	East
River Pt. 82			379,990.46	1,768,907.51
" " 83	N02°09'E	307.15	380,297.39	1,768,919.04
" " 84	N00°43'W	434.32	380,731.68	1,768,913.67
" " 85	N05°00'W	772.90	381,501.64	1,768,846.38
" " 86	N06°38'W	468.83	381,967.33	1,768,792.24
" " 87	N06°49'W	311.40	382,276.53	1,768,755.26
" " 88	N10°38'E	142.10	382,416.19	1,768,781.49
" " 89	N20°27'E	171.59	382,576.97	1,768,841.46
" " 90	N13°05'W	580.81	383,142.70	1,768,710.07
" " 91	N19°39'W	335.74	383,458.89	1,768,597.13
" " 92	N03°50'W	249.27	383,707.60	1,768,580.50
" " 93	N13°49'W	541.92	384,233.84	1,768,451.11
" " 93A	N08°13'E	351.38	384,581.61	1,768,501.36
" " 93B	N04°05'W	501.22	385,081.56	1,768,465.71
" " 94	N01°48'W	361.70	385,443.08	1,768,454.32
" " 94A	N07°27'W	428.26	385,867.72	1,768,398.74
" " 95	N16°48'W	160.51	386,021.38	1,768,352.33
" " 96	N29°46'W	386.54	386,356.92	1,768,160.41
" " 96A	N34°38'W	484.08	386,755.22	1,767,885.27
" " 96B	N10°34'W	381.04	387,129.80	1,767,815.42
" " 97	N45°04'W	83.10	387,188.51	1,767,756.59
" " 98	N47°57'W	262.40	387,364.27	1,767,561.74
" " 99	N53°52'W	263.11	387,519.46	1,767,349.24
" " 100	N38°35'W	252.03	387,716.47	1,767,192.06
" " 101	N52°01'W	247.68	387,868.94	1,766,996.84
" " 102	N67°43'W	576.59	388,087.66	1,766,463.31
" " 103	N70°28'W	537.48	388,267.33	1,765,956.76

55 x 60 ft. notes

counter 49636

H<sup>6</sup>



Station	Bearing	Distance	Coordinates (Feet)	
			North	East
River Pt. 103			388,267.33	1,765,956.76
" " 104	N66°52' W	547.57	388,482.48	1,765,453.22
" " 105	N62°50' W	196.29	388,572.11	1,765,278.58
" " 106	N61°10' W	650.02	388,885.60	1,764,709.15
" " 107	N52°05' W	360.79	389,107.34	1,764,424.52
" " 108	N52°40' W	234.47	389,249.50	1,764,238.09
" " 109	N52°46' W	341.08	389,455.91	1,763,966.53
" " 110	N50°42' W	645.79	389,864.86	1,763,466.79
" " 111	N44°36' W	508.97	390,227.26	1,763,109.32
" " 112	N47°32' W	100.00	390,294.78	1,763,035.55
" " 113	N51°40' W	401.24	390,543.63	1,762,720.81
" " 114	N54°16' W	456.58	390,810.33	1,762,350.18
" " 115	N58°40' W	884.96	391,270.41	1,761,594.29
" " 116	N56°50' W	1035.13	391,836.53	1,760,727.80
" " 117	N49°41' W	520.18	392,173.19	1,760,331.17
" " 118	N47°15' W	890.13	392,777.24	1,759,677.53
" " 118A	N45°57' W	1099.82	393,541.95	1,758,887.05
" " 119	N37°58' W	268.43	393,753.57	1,758,721.94
" " 120	N38°50' W	584.03	394,208.51	1,758,355.78
" " 121	N37°21' W	418.27	394,541.01	1,758,102.08
" " 122	N33°11' W	872.83	395,271.50	1,757,624.45
" " 123	N35°50' W	127.69	395,375.02	1,757,549.72
" " 124	N34°17' W	348.03	395,662.58	1,757,353.68
" " 125	N38°35' W	94.41	395,736.38	1,757,294.80
" " 126	N35°22' W	405.43	396,066.99	1,757,060.14

ES 42 617.00 stages

counter 99637

H<sup>7</sup>.



Station	Bearing	Distance	Coordinates (Feet)	
			North	East
River Pt. 126			396,066.99	1,757,060.14
" " 127	N38°13'W	201.20	396,225.07	1,756,935.68
" " 128	N24°20'W	540.28	396,717.35	1,756,712.99
" " 129	N04°44'W	359.87	397,075.99	1,756,683.33
" " 130	N02°12'W	321.89	397,397.64	1,756,670.95
" " 131	N03°31'E	215.41	397,612.64	1,756,684.16
" " 132	N03°53'E	182.31	397,794.93	1,756,686.95
" " 133	N09°58'E	670.30	398,455.11	1,756,803.06
" " 134	N05°30'E	111.86	398,566.45	1,756,813.79
" " 135	N32°47'E	93.77	398,645.28	1,756,864.56
" " 136	N22°39'E	123.05	398,758.84	1,756,911.94
" " 137	N20°15'E	184.93	398,932.34	1,756,975.95
" " 138	N29°56'E	764.19	399,594.59	1,757,357.28
" " 139	N33°08'E	272.45	399,822.74	1,757,506.21
" " 140	N25°59'E	617.09	400,377.46	1,757,776.50
" " 141	N24°45'E	666.65	400,982.87	1,758,055.60
" " 142	N22°36'E	418.29	401,369.04	1,758,216.30
" " 143	N40°34'E	306.72	401,602.04	1,758,415.70
" " 144	N16°06'E	354.82	401,942.94	1,758,514.07
" " 145	N28°51'E	197.37	402,115.81	1,758,609.33
" " 145A	N13°22'E	113.05	402,225.80	1,758,635.46
" " 146	N12°10'E	572.74	402,785.68	1,758,756.12
" " 147	N01°21'E	443.44	403,229.00	1,758,766.59
" " 148	N00°57'W	247.02	403,475.99	1,758,762.53
" " 149	N04°49'E	524.97	403,999.11	1,758,806.60
" " 150	N03°21'W	215.52	404,214.26	1,758,794.02
" " 151	N00°29'E	47.07	404,261.33	1,758,794.42

SS 32 N.R. 20 stages

counter 49638 H<sup>8</sup>



Station	Bearing	Distance	Coordinates (Feet)	
			North	East
River Pt. 151			404,261.33	1,758,794.42
" " 152	N18°55'W	80.64	404,337.61	1,758,768.29
" " 153	N36°13'W	29.47	404,361.39	1,758,750.87
" " 154	N05°06'E	314.46	404,674.61	1,758,778.83
" " 155	N00°23'W	389.55	405,064.15	1,758,776.24
" " 155A	N02°02'W	408.67	405,472.56	1,758,761.69
" " 156	N07°32'W	233.55	405,704.09	1,758,731.04
" " 157	N16°43'W	425.84	406,111.93	1,758,608.56
" " 158	N20°47'W	494.67	406,574.41	1,758,432.96
" " 159	N20°02'W	592.78	407,131.32	1,758,229.85
" " 160	N22°11'W	661.98	407,744.30	1,757,979.92
" " 161	N22°44'W	842.31	408,521.17	1,757,654.33
" " 162	N24°35'W	421.22	408,904.21	1,757,479.09
" " 163	N19°07'W	818.66	409,677.72	1,757,210.92
" " 164	N19°45'W	100.00	409,771.84	1,757,177.13
" " 165	N23°07'W	253.71	410,005.18	1,757,077.49
" " 166	N16°22'W	122.34	410,122.56	1,757,043.02
" " 167	N20°10'W	607.26	410,692.59	1,756,833.74
" " 168	N10°03'W	324.64	411,012.25	1,756,777.13
" " 169	N48°54'W	327.10	411,227.31	1,756,530.64
" " 170	N39°52'W	410.98	411,542.75	1,756,267.13
" " 171	N37°28'W	810.92	412,186.44	1,755,773.91
" " 172	N31°46'W	312.82	412,452.40	1,755,609.20
" " 173	N24°05'W	148.88	412,588.32	1,755,548.43
" " 174	N34°08'W	1374.66	413,726.11	1,754,776.96
" " 175	N44°49'W	502.45	414,082.56	1,754,422.88
" " 176	N38°12'W	430.68	414,421.01	1,754,156.54

Station 151 to 176

counter 49639

H9



Station	Bearing	Distance	Coordinates (Feet)	
			North	East
River Pt. 176			414,421.01	1,754,156.54
" " 177	N49°59'W	24.48	414,436.75	1,754,137.79
" " 178	N34°40'W	212.93	414,611.88	1,754,016.65
" " 179	N35°59'W	420.29	414,951.97	1,753,769.77
" " 180	N31°27'W	549.65	415,420.87	1,753,483.01
" " 181	N26°55'W	224.32	415,620.89	1,753,381.48
" " 182	N28°04'W	373.73	415,950.67	1,753,205.59
" " 182A	N36°06'W	334.92	416,221.28	1,753,008.26
" " 183	N29°48'W	87.06	416,296.83	1,752,965.00
" " 184	N30°36'W	403.54	416,644.17	1,752,759.61
" " 185	N53°51'W	233.95	416,782.15	1,752,570.70
" " 186	N41°02'W	301.02	417,009.22	1,752,373.10
" " 187	N79°17'W	94.16	417,026.74	1,752,280.58
" " 188	N50°39'W	328.88	417,235.30	1,752,026.26
" " 189	N40°52'W	249.88	417,424.27	1,751,862.78
" " 190	N39°15'W	211.82	417,588.30	1,751,728.77
" " 191	N38°15'W	418.10	417,916.64	1,751,469.92
" " 192	N27°28'W	306.49	418,188.58	1,751,328.52
" " 193	N24°58'W	627.17	418,757.14	1,751,063.83
" " 194	N13°23'W	360.78	419,108.12	1,750,980.36
" " 195	N03°35'W	284.58	419,392.14	1,750,962.60
" " 196	N00°37'E	182.58	419,574.71	1,750,964.58
" " 197	N01°56'E	172.21	419,746.82	1,750,970.41
" " 198	N03°36'E	132.88	419,879.44	1,750,978.75
" " 199	N00°06'E	228.83	420,108.27	1,750,979.13
" " 200	N00°50'E	433.63	420,541.85	1,750,985.50

55 x 2 1/2 in. 20 1/2 x 9 1/2

counter 49640

H<sup>10</sup>



Station	Bearing	Distance	Coordinates (Feet)	
			North	East
River Pt. 200			420,541.85	1,750,985.50
" " 201	N01°18'W	256.19	420,797.97	1,750,979.70
" " 201A	N03°21'E	61.30	420,859.17	1,750,983.28
" " 202	N02°27'W	434.24	421,293.01	1,750,964.78
" " 203	N00°06'E	288.06	421,581.07	1,750,965.27
" " 204	N02°09'E	283.24	421,864.11	1,750,975.88
" " 205	N05°02'W	268.72	422,131.79	1,750,952.34
" " 206	N01°13'W	458.35	422,590.04	1,750,942.60
" " 207	N03°43'E	111.61	422,701.42	1,750,949.83
" " 208	N03°01'E	407.52	423,108.38	1,750,971.29
" " 209	N01°30'W	364.18	423,472.44	1,750,961.80
" " 210	N05°12'W	531.15	424,001.40	1,750,913.72
" " 211	N11°07'W	234.40	424,231.40	1,750,868.50
" " 212	N02°53'W	178.96	424,410.13	1,750,859.41
" " 213	N08°47'W	631.85	425,034.57	1,750,763.01
" " 214	N26°38'W	578.51	425,551.73	1,750,503.74
" " 215	N22°17'W	232.32	425,766.70	1,750,415.66
" " 216	N32°07'W	222.89	425,955.48	1,750,297.18
" " 217	N22°28'W	644.47	426,551.00	1,750,050.84
" " 218	N21°11'W	226.91	426,762.58	1,749,968.82
" " 219	N33°42'W	291.83	427,005.37	1,749,806.89
" " 220	N15°59'W	146.61	427,146.31	1,749,766.54
" " 221	N26°44'W	278.72	427,395.24	1,749,641.15
" " 222	N16°22'W	834.38	428,195.77	1,749,405.96
" " 223	N21°12'W	377.04	428,547.29	1,749,269.62
" " 224	N25°22'W	474.29	428,975.85	1,749,066.40

Station 200 to 224

counter 79691

H.11



Station	Bearing	Distance	Coordinates (Feet)	
			North	East
River Pt. 224			428,975.85	1,749,066.40
" " 225	N22°45'W	296.53	429,249.31	1,748,951.70
" " 226	N23°42'W	183.24	429,417.10	1,748,878.03
" " 227	N17°09'W	441.16	429,838.64	1,748,747.98
" " 228	N26°01'W	649.57	430,422.39	1,748,463.02
" " 229	N32°11'W	452.64	430,805.48	1,748,221.89
" " 229A	N34°40'W	1073.63	431,688.51	1,747,611.26
" " 230	N34°48'W	192.19	431,846.33	1,747,501.56
" " 231	N43°41'W	251.85	432,028.46	1,747,327.63
" " 232	N42°40'W	207.04	432,180.70	1,747,187.31
" " 233	N41°42'W	672.35	432,682.70	1,746,740.10
" " 234	N47°14'W	474.97	433,005.17	1,746,391.40
" " 235	N50°41'W	1774.91	434,129.69	1,745,018.24
" " 236	N48°33'W	347.68	434,359.84	1,744,757.64
" " 237	N47°15'W	240.82	434,523.34	1,744,580.80
" " 238	N53°49'W	209.57	434,647.03	1,744,411.65
" " 239	N49°27'W	791.93	435,161.80	1,743,809.91
" " 240	N71°59'W	278.99	435,248.12	1,743,544.60
" " 241	N60°44'W	291.36	435,390.56	1,743,290.43
" " 242	N52°21'W	149.58	435,481.92	1,743,172.00
" " 243	N35°25'W	87.67	435,553.37	1,743,121.20
" " 244	N70°49'W	225.23	435,627.39	1,742,908.48
" " 245	N66°13'W	57.32	435,650.51	1,742,856.03
" " 246	N63°14'W	40.35	435,668.68	1,742,820.00
" " 247	N55°04'W	57.01	435,701.32	1,742,773.26
" " 248	N80°20'W	86.32	435,715.80	1,742,688.17

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counter 49642 H<sup>12</sup>



Station	Bearing	Distance	Coordinates (Feet)	
			North	East
River Pt. 248			435,715.80	1,742,688.17
" " 249	N73°54'W	97.68	435,742.90	1,742,594.32
" " 250	N60°10'W	321.39	435,897.89	1,742,312.77
" " 251	N62°14'W	207.00	435,994.33	1,742,129.61
" " 252	N68°52'W	166.28	436,054.27	1,741,974.51
" " 253	N73°58'W	193.15	436,107.64	1,741,788.87
" " 254	N82°45'W	737.05	436,200.73	1,741,057.71
" " 255	S86°48'W	358.46	436,180.71	1,740,699.81
" " 255A	N87°23'W	343.37	436,196.40	1,740,356.80
" " 256	S86°56'W	771.26	436,155.05	1,739,586.64
" " 257	S89°33'W	461.66	436,151.36	1,739,124.99
" " 258	N86°42'W	445.69	436,177.07	1,738,680.04
" " 259	N86°17'W	692.04	436,221.84	1,737,989.46
" " 260	S57°16'W	450.00	435,978.55	1,737,610.92
" " 261	N89°48'W	1156.43	435,982.50	1,736,454.50
" " 262	S68°58'W	60.10	435,960.93	1,736,398.40
" " 263	S65°29'W	334.53	435,822.11	1,736,094.03
" " 264	N47°31'W	447.47	436,124.37	1,735,764.03
" " 265	N42°24'W	173.15	436,252.23	1,735,647.29
" " 266	N44°23'W	674.33	436,734.16	1,735,175.65
" " 267	N65°15'W	300.58	436,860.03	1,734,902.68
" " 268	N40°20'W	774.05	437,450.08	1,734,401.61
" " 269	N42°39'W	783.34	438,026.23	1,733,870.74
" " 270	N41°56'W	226.22	438,194.52	1,733,719.54
" " 271	N42°54'W	1011.74	438,935.66	1,733,030.99
" " 272	N44°10'W	748.78	439,472.77	1,732,509.15
" " 272A	N44°21'W	538.73	439,858.01	1,732,132.61

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counter 49643

H<sup>13</sup>



Station	Bearing	Distance	Coordinates (Feet)	
			North	East
River Pt. 272A			439,858.01	1,732,132.61
" " 273	N50°48'W	710.71	440,307.12	1,731,581.85
" " 274	N35°30'W	572.78	440,773.43	1,731,249.31
" " 275	N39°59'W	85.00	440,838.56	1,731,194.69
" " 276	N51°13'W	112.39	440,908.97	1,731,107.08
" " 277	N58°02'W	372.58	441,106.26	1,730,791.00
" " 278	N70°26'W	353.74	441,224.70	1,730,457.69
" " 279	N60°26'W	392.05	441,418.15	1,730,116.69
" " 280	N14°10'E	428.29	441,833.41	1,730,221.47
" " 281	N38°47'E	193.31	441,984.10	1,730,342.58
" " 282	N21°57'E	469.97	442,420.00	1,730,518.20
" " 283	N24°47'E	274.18	442,668.93	1,730,633.10
" " 284	N18°28'E	449.05	443,094.86	1,730,775.35
" " 285	N16°46'E	432.00	443,508.49	1,730,900.01
" " 286	N14°51'E	325.13	443,822.76	1,730,983.34
" " 287	N04°15'E	870.00	444,690.37	1,731,047.94
" " 288	N03°36'E	279.67	444,969.49	1,731,065.51
" " 289	N01°11'E	310.93	445,280.35	1,731,071.92
" " 290	N08°26'E	287.47	445,564.71	1,731,114.06
" " 291	N15°15'E	335.60	445,888.49	1,731,202.31
" " 292	N13°32'E	604.20	446,475.91	1,731,343.71
" " 293	N15°59'E	210.00	446,677.79	1,731,401.54
" " 294	N14°31'E	379.57	447,045.24	1,731,496.66
" " 295	N10°42'E	292.19	447,332.35	1,731,550.88
" " 296	N21°07'E	261.83	447,576.60	1,731,645.19
" " 297	N20°08'E	294.66	447,853.25	1,731,746.62
" " 298	N05°53'E	191.35	448,043.59	1,731,766.22

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counter 49644

H<sup>14</sup>



Station	Bearing	Distance	Coordinates (Feet)	
			North	East
River Pt. 298			448,043.59	1,731,766.22
" " 299	N01°56'E	615.69	448,658.93	1,731,787.05
" " 300	N20°37'W	174.73	448,822.47	1,731,725.53
" " 301	N35°09'E	403.07	449,152.04	1,731,957.54
" " 302	N35°13'E	246.30	449,353.26	1,732,099.58
" " 303	N40°21'E	230.32	449,528.79	1,732,248.67
" " 304	N37°07'E	363.14	449,818.36	1,732,467.74
" " 305	N33°47'E	272.32	450,044.70	1,732,619.21
" " 306	N29°10'E	100.00	450,132.02	1,732,667.95
" " 307	N18°39'E	124.08	450,249.58	1,732,707.64
" " 308	N07°04'E	351.75	450,598.66	1,732,750.87
" " 309	N00°03'E	244.96	450,843.62	1,732,751.09
" " 310	N07°41'W	259.15	451,100.44	1,732,716.47
" " 311	N10°44'W	596.38	451,686.39	1,732,605.39
" " 312	N17°57'W	367.04	452,035.56	1,732,492.32
" " 313	N14°04'W	631.53	452,648.15	1,732,338.83
" " 314	N13°15'W	68.59	452,714.91	1,732,323.10
" " 315	N17°53'W	399.34	453,094.96	1,732,200.50
" " 316	N19°19'W	295.76	453,374.07	1,732,102.67
" " 317	N15°46'W	565.49	453,918.28	1,731,949.02
" " 318	N18°28'W	464.66	454,359.01	1,731,801.91
" " 319	N21°20'W	545.36	454,867.00	1,731,603.57
" " 320	N41°15'W	339.38	455,122.16	1,731,379.86
" " 321	N49°03'W	532.87	455,471.41	1,730,977.39
" " 322	N54°02'W	429.99	455,723.96	1,730,629.37
" " 322A	N58°42'W	475.33	455,970.83	1,730,223.22

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counter 49645

H<sup>15</sup>



Station	Bearing	Distance	Coordinates (Feet)	
			North	East
River Pt. 322A			455,970.83	1,730,223.22
" " 323	N57°32'W	40.52	455,992.59	1,730,189.03
" " 324	N55°40'W	723.20	456,400.39	1,729,591.83
" " 325	N62°41'W	885.52	456,806.86	1,728,805.06
" " 326	N63°48'W	772.05	457,147.62	1,728,112.33
" " 327	N64°07'W	376.75	457,312.07	1,727,773.37
" " 328	N67°40'W	404.59	457,465.78	1,727,399.13
" " 329	N75°17'W	933.86	457,703.07	1,726,495.91
" " 330	N68°55'W	429.93	457,857.77	1,726,094.76
" " 331	N70°44'W	350.68	457,973.44	1,725,763.72
" " 332	N84°49'W	196.85	457,991.20	1,725,567.67
" " 333	N76°41'W	199.61	458,037.18	1,725,373.43
" " 334	N72°46'W	458.68	458,173.05	1,724,935.34
" " 335	N72°41'W	593.35	458,349.64	1,724,368.88
" " 336	N62°18'W	597.45	458,627.38	1,723,839.90
" " 337	N58°16'W	244.47	458,755.95	1,723,631.98
" " 338	N54°37'W	693.13	459,157.36	1,723,066.87
" " 339	N66°36'W	557.14	459,378.64	1,722,555.55
" " 340	N78°16'W	473.91	459,475.04	1,722,091.54
" " 341	N78°17'W	763.91	459,630.08	1,721,343.55
" " 342	N89°06'W	913.56	459,644.53	1,720,430.10
" " 343	N75°27'W	363.17	459,735.95	1,720,078.00
" " 344	N80°49'W	597.88	459,831.37	1,719,487.78
" " 345	N75°42'W	380.07	459,925.20	1,719,119.49
" " 346	N74°56'W	549.70	460,068.16	1,718,588.69
" " 347	N68°50'W	67.75	460,092.62	1,718,525.51

counter 49646

H<sup>16</sup>

ES 22 218 20 219 25



Station	Bearing	Distance	Coordinates (Feet)	
			North	East
River Pt. 347			460,092.62	1,718,525.51
" " 348	S87°05' W	119.55	460,086.53	1,718,406.11
" " 349	N62°52' W	199.91	460,177.70	1,718,228.20
" " 350	N62°52' W	462.00	460,388.40	1,717,817.04
" " 351	N65°21' W	274.43	460,502.88	1,717,567.62
" " 352	N71°49' W	319.61	460,602.57	1,717,263.97
" " 353	N48°24' W	252.82	460,770.46	1,717,074.91
" " 354	N77°10' W	275.53	460,831.67	1,716,806.26
" " 355	N66°29' W	343.15	460,968.54	1,716,491.70
" " 356	N68°38' W	287.40	461,073.21	1,716,224.05
" " 357	N65°05' W	299.99	461,199.63	1,715,951.98
" " 357A	N54°26' W	247.34	461,343.53	1,715,750.78
" " 358	N60°12' W	1320.92	461,999.78	1,714,604.53
" " 359	N61°18' W	722.25	462,346.70	1,713,971.01
" " 360	N49°44' W	387.71	462,597.29	1,713,675.17
" " 361	N59°39' W	158.22	462,677.23	1,713,538.63
" " 362	N60°47' W	853.78	463,094.02	1,712,793.47
" " 363	S87°59' W	52.82	463,092.16	1,712,740.68
" " 364	N53°01' W	734.13	463,533.83	1,712,154.25
" " 365	N53°12' W	225.11	463,668.65	1,711,974.00
" " 365A	N35°13' W	106.69	463,755.81	1,711,912.48
" " 366	N48°07' W	100.71	463,823.03	1,711,837.50
" " 367	N38°45' W	1088.50	464,671.93	1,711,156.28
" " 368	N24°15' W	446.89	465,079.39	1,710,972.78
" " 369	N13°05' W	668.02	465,730.07	1,710,821.55
" " 370	N25°20' W	279.04	465,982.28	1,710,702.18

counter 19647

H<sup>17</sup>



Station	Bearing	Distance	Coordinates (Feet)	
			North	East
River Pt. 370			465,982.28	1,710,702.18
" " 371	N14°48'W	1451.55	467,385.67	1,710,331.31
" " 372	N06°20'W	453.93	467,836.83	1,710,281.23
" " 373	N12°53'W	640.17	468,460.88	1,710,138.56
" " 374	N17°13'W	718.54	469,147.22	1,709,925.93
" " 375	N19°59'W	403.33	469,526.27	1,709,788.03
" " 376	N19°39'W	327.53	469,834.73	1,709,677.84
" " 377	N23°26'W	263.63	470,076.62	1,709,572.99
" " 378	N17°54'W	421.51	470,477.73	1,709,443.48
" " 379	N21°29'W	89.50	470,561.01	1,709,410.71
" " 380	N14°27'W	312.57	470,863.69	1,709,332.76
" " 381	N04°26'W	358.77	471,221.39	1,709,305.05
" " 382	N05°04'E	424.65	471,644.38	1,709,342.60
" " 383	N12°39'E	420.61	472,054.78	1,709,434.67
" " 384	N25°04'E	234.89	472,267.55	1,709,534.21
" " 385	N34°03'E	435.74	472,628.58	1,709,778.18
" " 386	N44°10'E	634.52	473,083.73	1,710,220.38
" " 387	N78°35'E	328.97	473,148.88	1,710,542.84
" " 388	N68°04'E	300.20	473,260.99	1,710,821.31
" " 389	N62°59'E	390.26	473,438.22	1,711,168.98
" " 390	N60°45'E	325.74	473,597.40	1,711,453.19
" " 391	N62°00'E	469.64	473,817.92	1,711,867.86
" " 392	N54°45'E	644.68	474,189.93	1,712,394.33
" " 393	N51°36'E	549.46	474,531.14	1,712,824.94
" " 394	N61°45'E	209.80	474,630.42	1,713,009.75
" " 395	N55°41'E	598.12	474,967.54	1,713,503.76



Station	Bearing	Distance	Coordinates (Feet)	
			North	East
River Pt. 395			474,967.54	1,713,503.76
" " 396	N47°32'E	449.16	475,270.76	1,713,835.09
" " 397	N44°32'E	596.48	475,695.96	1,714,253.40
" " 398	N36°49'E	670.42	476,232.67	1,714,655.14
" " 399	N12°19'E	639.97	476,857.91	1,714,791.56
" " 400	N12°10'W	493.73	477,340.55	1,714,687.43
" " 401	N15°44'W	400.32	477,725.87	1,714,578.87
" " 402	N32°38'W	481.00	478,130.94	1,714,319.38
" " 403	N48°19'W	254.53	478,300.17	1,714,129.29
" " 404	N64°09'W	599.84	478,561.68	1,713,589.47
" " 405	N72°18'W	743.53	478,787.71	1,712,881.14
" " 406	N84°31'W	685.57	478,853.30	1,712,198.71
" " 408	N45°54'W	1554.60	479,935.21	1,711,082.31
" " 409	N44°23'W	184.77	480,067.26	1,710,953.08
" " 412	N45°03'W	409.38	480,356.49	1,710,663.35
" " 413	N46°48'W	429.61	480,650.56	1,710,350.18
" " 414	N45°25'W	385.10	480,920.80	1,710,075.90
" " 415	N45°01'W	294.37	481,128.92	1,709,867.69
" " 416	N49°33'W	237.81	481,283.19	1,709,686.72
" " 417	N48°23'W	237.00	481,440.59	1,709,509.54
" " 418	N47°34'W	271.18	481,623.52	1,709,309.39
" " 419	N46°52'W	567.39	482,011.34	1,708,895.33
" " 420	N48°11'W	288.72	482,203.85	1,708,680.15
" " 421	N45°22'W	309.17	482,421.04	1,708,460.14
" " 422	N49°45'W	238.29	482,575.00	1,708,278.27
" " 423	N47°53'W	569.51	482,956.97	1,707,855.82

counter 49649

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53 42 18' 20' 20' 20' 20'



Station	Bearing	Distance	Coordinates (Feet)	
			North	East
River Pt. 423			482,956.97	1,707,855.82
" " 424	N50°00'W	534.56	483,300.66	1,707,446.32
" " 425	N50°12'W	212.06	483,436.36	1,707,283.40
" " 427	N43°23'W	308.42	483,660.51	1,707,071.54
" " 428	N48°07'W	216.67	483,805.20	1,706,910.23
" " 429	N43°02'W	418.42	484,111.05	1,706,624.73
" " 430	N41°31'W	278.05	484,319.24	1,706,440.39
" " 431	N36°15'W	495.57	484,718.89	1,706,147.29
" " 432	N22°29'W	553.19	485,230.03	1,705,935.74
" " 433	N19°24'W	642.72	485,836.26	1,705,722.22
" " 434	N21°06'W	431.89	486,239.19	1,705,566.80
" " 435	N23°55'W	467.94	486,666.95	1,705,377.02
" " 436	N22°28'W	797.59	487,404.00	1,705,072.20
" " 437	N26°21'W	332.05	487,701.55	1,704,924.82
" " 438	N28°06'W	266.38	487,936.53	1,704,799.36
" " 439	N35°52'W	740.80	488,536.86	1,704,365.29
" " 440	N35°23'W	408.59	488,869.98	1,704,128.74
" " 441	N28°52'W	253.74	489,092.19	1,704,006.23
" " 442	N27°09'W	221.88	489,289.62	1,703,904.97
" " 443	N14°10'W	725.75	489,993.30	1,703,727.31
" " 444	N07°09'W	177.41	490,169.33	1,703,705.22
" " 445	N28°37'W	414.98	490,533.62	1,703,506.42
" " 446	N39°02'W	421.26	490,860.85	1,703,241.19
" " 447	N46°13'W	408.66	491,143.61	1,702,946.15
" " 448	N41°05'W	484.57	491,508.86	1,702,627.72
" " 449	N43°27'W	631.65	491,967.42	1,702,193.20

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counter 19650 H<sup>20</sup>



Station	Bearing	Distance	Coordinates (Feet)	
			North	East
River Pt. 449			491,967.42	1,702,193.20
" " 450	N52°53'W	283.57	492,138.57	1,701,967.08
" " 451	N64°41'W	296.27	492,265.30	1,701,699.26
" " 452	S79°33'W	710.80	492,136.41	1,701,000.25
" " 453	S52°38'W	454.65	491,860.41	1,700,638.91
" " 454	S68°14'W	216.83	491,779.97	1,700,437.54
" " 455	N78°24'W	693.05	491,919.31	1,699,758.65
" " 456	S77°23'W	192.96	491,877.19	1,699,570.35
" " 457	S59°34'W	580.44	491,583.22	1,699,069.88
" " 458	S48°04'W	362.28	491,341.17	1,698,800.37
" " 459	S34°22'W	383.22	491,024.84	1,698,584.02
" " 460	S37°51'W	473.49	490,650.96	1,698,293.48
" " 461	S30°30'W	699.88	490,047.92	1,697,938.33
" " 462	S42°43'W	209.68	489,893.86	1,697,796.08
" " 463	S49°47'W	169.17	489,784.61	1,697,666.90
" " 464	S59°35'W	223.69	489,671.34	1,697,474.00
" " 465	S87°04'W	547.52	489,643.34	1,696,927.20
" " 466	N61°46'W	225.26	489,749.92	1,696,728.74
" " 467	N56°50'W	330.98	489,931.02	1,696,451.68
" " 468	N51°19'W	225.40	490,071.87	1,696,275.73
" " 469	N53°01'W	605.07	490,435.88	1,695,792.39
" " 470	N51°39'W	454.63	490,718.01	1,695,435.85
" " 471	N50°50'W	331.17	490,927.23	1,695,179.09
" " 472	N50°08'W	193.97	491,051.54	1,695,030.21
" " 473	N50°03'W	290.72	491,238.26	1,694,807.34
" " 474	N47°25'W	314.40	491,450.98	1,694,575.85

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counter 49651

H<sup>21</sup>



Station	Bearing	Distance	Coordinates (Feet)	
			North	East
River Pt. 474			491,450.98	1,694,575.85
" " 475	N49°37'W	269.03	491,625.25	1,694,370.92
" " 476	N46°49'W	243.02	491,791.53	1,694,193.72
" " 477	N47°34'W	341.94	492,022.18	1,693,941.35
" " 478	N47°48'W	657.64	492,463.88	1,693,454.17
" " 479	N47°40'W	644.15	492,897.78	1,692,977.99
" " 480	N46°57'W	465.59	493,215.56	1,692,637.76
" " 481	N48°55'W	408.79	493,484.26	1,692,329.63
" " 482	N46°52'W	340.03	493,716.75	1,692,081.49
" " 483	N35°02'W	262.63	493,931.80	1,691,930.75
" " 484	N43°06'W	541.74	494,327.36	1,691,560.53
" " 485	N00°43'E	439.58	494,766.91	1,691,566.08
" " 486	N30°39'E	705.06	495,373.47	1,691,925.54
" " 487	N26°53'E	686.76	495,986.01	1,692,236.08
" " 488	N28°25'E	245.28	496,201.74	1,692,352.84
" " 489	N25°16'E	204.25	496,386.45	1,692,440.05
" " 490	N25°25'E	707.30	497,025.29	1,692,743.65
" " 491	N16°28'E	535.93	497,539.24	1,692,895.60
" " 492	N09°16'E	621.52	498,152.65	1,692,995.71
" " 493	N00°41'E	639.45	498,792.05	1,693,003.35
" " 494	N07°44'W	389.79	499,178.29	1,692,950.91
" " 495	N08°43'W	184.72	499,360.88	1,692,922.92
" " 496	N10°53'W	745.87	500,093.33	1,692,782.18
" " 497	N11°42'W	896.13	500,970.84	1,692,600.57
" " 498	N04°33'W	854.97	501,823.12	1,692,532.77

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counter 49652 H<sup>22</sup>



Station	Bearing	Distance	Coordinates (Feet)	
			North	East
River Pt. 498			501,823.12	1,692,532.77
" " 499	N24°20'W	1244.84	502,957.37	1,692,019.65
" " 500	N15°54'W	876.56	503,800.39	1,691,779.58
" " 501	N16°14'W	497.22	504,277.79	1,691,640.64
" " 502	N20°54'W	642.29	504,877.82	1,691,411.49
" " 503	N17°57'W	344.65	505,205.69	1,691,305.23
" " 503A	N46°02'W	345.50	505,445.54	1,691,056.56
" " 504	N23°05'W	311.30	505,731.92	1,690,934.53
" " 505	N22°33'W	513.09	506,205.78	1,690,737.69
" " 506	N20°07'W	230.14	506,421.88	1,690,658.51
" " 507	N14°20'W	431.11	506,839.57	1,690,551.77
" " 508	N01°58'W	523.84	507,363.10	1,690,533.78
" " 509	N00°02'W	942.68	508,305.78	1,690,533.33
" " 510	N00°09'E	848.00	509,153.78	1,690,535.56
" " 511	N23°19'E	452.31	509,569.15	1,690,714.65
" " 512	N35°16'E	675.60	510,120.76	1,691,104.79
" " 513	N43°05'E	447.98	510,447.95	1,691,410.82
" " 514	N43°15'E	838.60	511,058.76	1,691,985.46
" " 515	N49°05'E	847.97	511,614.06	1,692,626.24
" " 516	N48°10'E	677.21	512,065.85	1,693,130.82
" " 517	N51°09'E	498.88	512,378.86	1,693,519.34
" " 518	N57°20'E	605.80	512,705.86	1,694,029.32
" " 519	N62°07'E	274.46	512,834.20	1,694,271.92
" " 520	N54°32'E	709.47	513,245.90	1,694,849.75
" " 521	N53°26'E	265.03	513,403.79	1,695,062.61
" " 522	N44°49'E	477.30	513,742.37	1,695,398.97

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counter 19653 H 23



Station	Bearing	Distance	Coordinates (Feet)	
			North	East
River Pt. 522			513,742.37	1,695,398.97
" " 523	N43°51'E	686.15	514,237.19	1,695,874.31
" " 524	N35°05'E	754.05	514,854.24	1,696,307.71
" " 525	N27°42'E	535.67	515,328.52	1,696,556.77
" " 526	N16°18'E	440.50	515,751.31	1,696,680.36
" " 527	N18°04'E	388.41	516,120.57	1,696,800.83
" " 528	N19°58'E	647.81	516,729.44	1,697,021.94
" " 529	N26°12'E	453.02	517,135.92	1,697,222.02
" " 530	N18°26'E	227.48	517,351.73	1,697,293.97
" " 531	N16°02'E	460.68	517,794.49	1,697,421.23
" " 532	N17°27'E	336.28	517,794.49	1,697,421.23
" " 533	N27°31'E	344.99	518,115.29	1,697,522.04
" " 534	N27°31'E	344.99	518,421.25	1,697,681.37
" " 535	N35°02'E	151.18	518,421.25	1,697,681.37
" " 536	N25°01'E	773.24	518,545.04	1,697,768.17
" " 537	N10°23'E	147.15	519,245.74	1,698,095.16
" " 538	N06°34'W	436.94	519,390.48	1,698,121.68
" " 539	N37°00'E	694.10	519,824.55	1,698,071.71
I. B. & W. C. Triangulation Station SL 60			520,378.88	1,698,489.42

SS P. 107 2/10/25

counter 19659

H<sup>24</sup>



Ties from traverse along river bank (line of vegetation) on United states side to probable porcion line markers.

Station	Bearing	Distance	Coordinates (Feet)	
			North	East
River Pt. 97	S57°56'E	40.58	387,188.51	1,767,756.59
Mesq. post on Rio Grande at mouth of Arroyo Loma Blanca. Probably on line between porciones 24 & 25			387,166.97	1,767,790.98
River Pt. 119	N39°34'W	50.90	393,753.57	1,758,721.94
Mesq. post on Rio Grande at mouth of Arroyo Clareño. Probably on line between porciones 26 & 27.			393,792.81	1,758,689.52
River Pt. 169	N29°29'W	65.87	411,227.31	1,756,530.64
Mesq. post on Rio Grande at mouth of Arroyo de Leon. Probably on line between porciones 29 & 30.			411,284.65	1,756,498.21
River Pt. 313	N54°25'E	117.61	452,648.15	1,732,338.83
Large stone marked P-38 on south side and P-39 on north side. Probably on line between porciones 38 & 39.			452,716.57	1,732,434.48

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H 25



Station	Bearing	Distance	Coordinates (Feet)	
			North	East
River Pt. 342	N46°40'E	1000.39	459,644.53	1,720,430.10
Iron beam and broken stone known as "Mesquite Chaveña" Probably on line between porciones 41 & 1.			460,331.09	1,721,157.76

I, Bryan Estes, Licensed Land Surveyor, Laredo, Texas, do hereby certify that the foregoing described survey was made by me, on the ground and according to law; that the limits, boundaries, and corners, with the marks, natural and artificial, are truly described in the foregoing field notes, just as they are on the ground.



*Bryan Estes*  
 \_\_\_\_\_  
 Licensed Land Surveyor  
 Laredo, Texas

Surveyed in 1946, 1947 & 1948.

*Copy to  
 1946  
 1947  
 1948*