

"Monument" is brass disk marked  
 as indicated in concrete cylinder  
 in 4" P.V.C. 3 feet long set in soil  
 with approximately 1/2 foot protruding.

STATE OF TEXAS § Gradient Boundary  
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Roberts County Rolled  
 Sketch 3

FIELD NOTES of survey of Gradient Boundary  
 the Right Bank of a portion of the Canadian  
 River made for Boone and Bea Pickens  
 by virtue of their Riparian ownership of  
 adjoining H. & T. C.R.R. Co. Surveys 1 through

24 Block 46, Roberts County, Texas, and pursuant to Vernon's Ann. Civ.  
 St. art. 5282c, Sec. 2 (3), Sec. 2 (4), Sec. 25, and Sec. 26; and  
 V.T.C.A., Natural Resources Code Chapter 21, regulating surveys of the  
 location of boundaries of any land in which the State or Public Free  
 School Fund has an interest and the preparation of field notes and  
 plats/or maps which are to be filed in the General Land Office of the  
 State of Texas. Said land is situated in Roberts County, about 24 miles  
 N.42°W. from Miami, the County Seat and is described by metes and bounds  
 as follows, to wit:

Beginning at a point in the Gradient Boundary on the Right or Southerly  
 Bank of the Canadian River from which fence corner post where fence  
 traverses S.2°33'19"E. along or near the common line between  
 H. & T.C.R.R. Co. Surveys 24 and 25 Block 46 bears S.2°33'19"E. 57.13  
 varas and monument marked "REF No. 18" set in said fence bears  
 S.2°33'19"E. 707.69 varas. Said monument has Coordinates on the Texas  
 Coordinate System of 1927 - North Zone of Y=251,983.28 varas and  
 X=771,353.83 varas.

Thence downstream along the Right or Southerly Bank of Canadian River  
 with the meanders of the Gradient Boundary as follows: (All distances  
 are grid varas).

L1	N 88°00'13"	E	99.97
L2	N 87°54'05"	E	56.19
L3	N 74°43'19"	E	36.85
L4	S 79°34'36"	E	54.30
L5	S 36°53'51"	E	62.11
L6	S 53°41'30"	E	36.02
L7	S 77°15'52"	E	27.83
L8	S 48°03'36"	E	47.07
L9	S 61°58'25"	E	31.72
L10	S 88°47'33"	E	33.32
L11	N 71°37'04"	E	107.88
L12	S 81°09'28"	E	70.20
L13	S 76°52'05"	E	69.59
L14	S 47°53'26"	E	40.16
L15	S 65°04'16"	E	40.62
L16	S 75°03'38"	E	73.71
L17	S 71°46'26"	E	51.06
L18	S 62°01'10"	E	72.22
L19	S 81°07'51"	E	62.73
L20	S 72°23'37"	E	83.95
L21	S 58°05'17"	E	74.04
L22	S 74°09'57"	E	54.19
L23	N 79°04'10"	E	145.30
L24	N 86°19'37"	E	47.85
L25	N 76°29'57"	E	90.24
L26	N 58°20'12"	E	86.91
L27	N 65°26'39"	E	33.56
L28	N 87°21'01"	E	40.81
L29	S 61°54'04"	E	54.56
L30	S 21°00'27"	E	28.53
L31	S 49°21'15"	W	35.57
L32	S 16°54'55"	W	23.01
L33	S 34°22'22"	E	25.44
L34	S 79°42'18"	E	22.16
L35	S 56°59'55"	E	36.62

File No. Sketch File 9  
 Roberts County  
 Date Filed: February 17, 2000  
 By David Dewhurst, Commissioner  
Douglas Howard

Field Notes of a survey of Gradient Boundary along the right (southerly)  
 bank of the Canadian River made for Boone and Bea Pickens by virtue  
 of their riparian ownership of adjoining H. & T. C.R.R. Co. Surveys 1-24.

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L36	N	56°51'42"	E	57.01
L37	S	80°17'10"	E	45.34
L38	N	75°50'17"	E	55.00
L39	S	88°03'34"	E	37.01
L40	S	60°50'15"	E	34.84
L41	S	45°03'53"	E	56.86
L42	S	71°04'27"	E	52.44
L43	N	76°18'23"	E	42.00
L44	N	63°46'48"	E	31.31
L45	N	52°11'55"	E	60.96
L46	N	81°14'40"	E	36.30
L47	S	65°35'12"	E	40.49
L48	N	89°44'17"	E	20.57
L49	N	68°46'38"	E	27.99
L50	S	74°18'07"	E	54.46
L51	N	59°25'21"	E	58.88
L52	N	44°12'20"	E	49.37
L53	N	34°52'04"	E	52.74
L54	N	48°53'16"	E	62.01
L55	N	24°21'45"	E	34.20
L56	N	02°46'30"	E	27.41
L57	N	65°52'58"	E	57.15
L58	N	44°48'56"	E	51.41
L59	N	61°35'07"	E	91.94
L60	N	50°13'47"	E	105.48
L61	N	45°45'30"	E	67.61
L62	N	28°42'36"	E	103.85
L63	N	13°13'09"	E	77.34
L64	N	29°18'43"	E	40.72
L65	N	00°43'55"	E	46.06
L66	N	06°32'31"	E	91.76
L67	N	18°43'38"	W	47.97
L68	N	15°33'39"	E	26.50
L69	N	46°20'54"	E	105.26
L70	N	36°17'20"	E	48.88
L71	N	77°28'45"	E	87.89
L72	N	68°51'17"	E	118.39
L73	N	55°39'11"	E	88.24
L74	N	71°41'19"	E	52.67
L75	N	50°57'48"	E	55.80
L76	N	57°38'42"	E	71.40
L77	N	31°54'29"	E	48.14
L78	N	53°44'26"	E	76.52
L79	N	27°50'30"	E	57.85
L80	N	49°36'41"	E	83.69
L81	N	21°12'13"	E	92.25
L82	N	41°31'57"	E	42.44
L83	N	73°02'58"	E	59.53
L84	N	58°51'47"	E	71.49
L85	S	76°43'59"	E	33.83
L86	S	45°53'59"	E	50.79
L87	N	76°57'53"	E	109.99
L88	N	88°11'42"	E	37.22
L89	S	81°04'30"	E	34.56
L90	N	77°11'28"	E	54.22
L91	S	78°30'31"	E	48.62
L92	N	87°35'48"	E	22.03
L93	N	69°09'47"	E	23.42
L94	N	31°24'12"	E	32.11
L95	N	75°28'04"	E	54.34
L96	N	59°00'18"	E	98.47

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L97	N 83°40'39"	E	63.69
L98	N 54°13'58"	E	78.23
L99	N 27°24'01"	E	24.72
L100	N 70°34'18"	E	28.01
L101	S 55°24'33"	E	24.09
L102	S 21°54'37"	E	42.09

to a point where monument marked "REF No. 7" bears N.7°13'31"W. 59.31 varas. Said monument is set on the North side of the Canadian River and has Coordinate on the Texas Coordinate System of 1927 - North Zone of Y=254,039.03 varas and X=775,801.12 varas.

Thence continuing downstream along the Right or Southerly Bank of the Canadian River with meanders of the Gradient Boundary as follow: (All distances are grid varas).

L103	S 54°01'27"	E	40.17
L104	S 86°06'01"	E	16.67
L105	N 66°51'10"	E	23.45
L106	N 00°24'52"	E	18.67
L107	N 26°20'49"	E	45.74
L108	S 61°51'47"	E	53.99
L109	N 72°13'24"	E	39.73
L110	N 01°53'48"	E	51.35
L111	N 52°49'27"	E	78.83
L112	N 32°39'54"	E	44.95
L113	N 08°18'15"	E	30.50
L114	N 36°44'38"	E	105.22
L115	N 11°20'29"	E	84.49
L116	N 01°26'56"	E	79.18
L117	N 10°46'17"	E	88.82
L118	N 07°31'56"	E	50.89
L119	N 21°33'40"	E	65.72
L120	N 03°28'40"	E	90.87
L121	N 32°18'27"	E	75.65
L122	N 28°57'10"	E	88.08
L123	N 39°31'53"	E	54.64
L124	N 50°09'08"	E	85.77
L125	N 35°17'56"	E	25.85
L126	N 67°58'02"	E	91.23
L127	N 71°24'01"	E	97.01
L128	N 72°09'01"	E	50.98
L129	N 60°52'39"	E	34.49
L130	S 89°43'41"	E	106.83
L131	N 73°01'35"	E	112.21
L132	N 61°50'57"	E	51.39
L133	N 39°26'23"	E	56.26
L134	N 12°37'07"	E	40.05
L135	N 08°53'39"	W	31.17
L136	N 24°21'44"	E	134.09
L137	N 11°46'31"	E	63.91
L138	N 31°43'22"	E	69.64
L139	N 62°27'48"	E	34.01
L140	N 32°15'58"	E	60.29
L141	N 73°43'38"	E	68.86
L142	N 54°25'53"	E	75.79

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L143	N	81°15'17"	E	95.86
L144	N	58°30'43"	E	53.15
L145	N	24°26'20"	E	55.84
L146	N	53°27'31"	E	72.22
L147	N	82°55'21"	E	56.20
L148	S	74°52'14"	E	38.61
L149	S	86°11'44"	E	66.53
L150	N	82°13'30"	E	127.64
L151	N	51°02'17"	E	77.57

to a point where monument marked "REF No. 23" bears set on the North side of the Canadian River bears N.32°34'40"W. 20.21 varas. Said monument has Coordinate on the Texas Coordinate System of 1927 - North Zone of Y=255,826.14 varas and X=777,817.34 varas.

Thence continuing downstream along the Right or Southerly Bank of the Canadian River with meanders of the Gradient Boundary as follow: (All distances are grid varas).

L152	N	60°51'58"	E	118.50
L153	N	55°24'28"	E	80.02
L154	N	66°59'14"	E	43.26
L155	N	59°03'33"	E	82.14
L156	N	89°52'49"	E	77.89
L157	N	58°32'44"	E	30.97
L158	N	13°19'38"	E	16.31
L159	N	56°29'43"	E	63.66
L160	S	69°46'08"	E	45.99
L161	N	53°08'31"	E	69.70
L162	N	62°06'46"	E	106.45
L163	N	14°05'12"	E	61.67
L164	N	49°23'11"	E	54.39
L165	N	36°44'30"	E	73.16
L166	S	82°53'40"	E	74.22
L167	N	86°34'30"	E	58.33
L168	N	88°28'42"	E	61.85
L169	N	82°50'54"	E	132.98
L170	N	85°09'46"	E	43.85
L171	S	79°16'25"	E	141.42
L172	S	60°12'54"	E	75.59
L173	S	71°33'23"	E	74.00
L174	N	83°54'54"	E	143.56
L175	S	86°08'44"	E	158.20
L176	S	74°27'02"	E	44.92
L177	S	32°42'21"	E	47.85
L178	S	12°46'22"	E	75.60

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L179	S	32°50'03"	E	46.26
L180	S	63°36'13"	E	61.23
L181	S	15°34'07"	E	42.64
L182	S	29°46'18"	E	51.76
L183	S	36°27'54"	E	42.53
L184	S	16°26'56"	E	80.06
L185	S	27°04'49"	E	42.05
L186	S	53°55'01"	E	43.23
L187	S	82°57'19"	E	38.04
L188	N	55°52'17"	E	58.81
L189	S	13°56'04"	E	75.46
L190	S	78°19'39"	E	18.25
L191	N	72°53'04"	E	42.88
L192	S	87°06'26"	E	74.73
L193	S	53°45'43"	E	52.31
L194	S	66°17'01"	E	72.80
L195	N	63°15'40"	E	35.38
L196	S	70°00'36"	E	42.87
L197	S	85°00'16"	E	46.31
L198	N	80°59'54"	E	56.38
L199	N	89°02'32"	E	93.13
L200	N	67°23'01"	E	39.43
L201	N	47°18'40"	E	49.32
L202	N	85°12'02"	E	37.49
L203	N	59°35'16"	E	110.49
L204	N	37°37'08"	E	32.99
L205	N	42°49'58"	E	85.82
L206	N	37°19'05"	E	75.74
L207	N	19°07'14"	E	29.76
L208	N	51°06'46"	E	82.46
L209	N	62°41'22"	E	83.04
L210	N	61°05'24"	E	36.12
L211	N	77°52'42"	E	82.27
L212	S	66°43'49"	E	69.26
L213	S	41°03'44"	E	69.94
L214	S	46°53'35"	E	62.91
L215	S	72°08'51"	E	42.65
L216	S	58°07'17"	E	82.36
L217	S	79°41'38"	E	42.67
L218	N	38°44'36"	E	25.27
L219	S	70°44'44"	E	83.87
L220	S	43°14'29"	E	46.38
L221	S	63°14'51"	E	26.47
L222	S	83°16'44"	E	33.10
L223	N	84°37'22"	E	56.73
L224	N	89°35'04"	E	26.55
L225	S	03°13'23"	W	67.00
L226	S	39°57'52"	E	32.08
L227	S	76°05'49"	E	46.45
L228	N	89°26'00"	E	40.55
L229	S	69°42'03"	E	70.09
L230	N	78°55'32"	E	44.00
L231	S	46°33'41"	E	109.61

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to a point where monument marked "REF No. 13" bears S.17°29'37"E. 7.48 varas. Said monument has Coordinates on Texas Coordinate System of 1927 - North Zone of Y=255,627.19 varas and X=781,882.53 varas.

Thence continuing downstream along the Right or Southerly Bank of the Canadian River with the meanders of the Gradient Boundary as follows: (All distances are grid varas).

L232	S	89°38'19"	E	24.96
L233	N	79°53'01"	E	178.61
L234	N	62°10'26"	E	34.23
L235	N	16°13'24"	E	41.74
L236	N	44°01'26"	E	46.23
L237	S	86°43'06"	E	56.63
L238	N	79°54'13"	E	31.27
L239	N	44°52'24"	E	24.01
L240	N	40°02'04"	E	58.23
L241	S	30°29'04"	E	55.35
L242	S	68°43'52"	E	41.21
L243	S	88°38'42"	E	52.61
L244	N	78°31'31"	E	69.05
L245	S	86°14'13"	E	56.69
L246	N	73°05'19"	E	38.02
L247	N	40°18'44"	E	65.05
L248	N	21°21'28"	E	106.68
L249	N	17°54'03"	E	59.62
L250	N	36°37'54"	E	32.36
L251	N	22°01'18"	E	77.11
L252	N	02°55'05"	W	36.28
L253	N	11°22'04"	W	38.59
L254	N	29°45'58"	W	16.49
L255	N	20°25'29"	E	23.84
L256	S	72°43'17"	E	45.76
L257	N	69°37'47"	E	33.50
L258	N	24°37'26"	E	21.16
L259	N	20°18'35"	W	30.46
L260	N	03°36'55"	E	34.18
L261	N	52°11'55"	E	119.55
L262	N	45°56'59"	E	49.18
L263	N	46°42'13"	E	85.71
L264	N	45°00'35"	E	86.70
L265	N	75°11'51"	E	37.43
L266	S	78°46'09"	E	48.38
L267	S	89°53'11"	E	51.75
L268	S	86°14'46"	E	52.04
L269	N	84°05'14"	E	21.76
L270	N	51°59'04"	E	48.49
L271	N	62°45'40"	E	17.35
L272	N	39°55'11"	E	38.67
L273	N	40°11'50"	E	54.20
L274	N	45°26'24"	E	45.42
L275	N	24°31'55"	E	35.59
L276	N	26°27'49"	E	51.30
L277	N	25°16'57"	E	59.86
L278	N	15°09'19"	E	33.96
L279	N	34°02'57"	E	45.61
L280	N	60°03'43"	E	37.46
L281	N	68°23'47"	E	74.60
L282	S	86°43'47"	E	49.86
L283	S	85°27'49"	E	61.37

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L284	N	87°47'11"	E	40.93
L285	N	81°17'51"	E	66.01
L286	S	63°28'41"	E	83.54
L287	S	59°30'10"	E	43.70
L288	S	77°12'06"	E	175.46
L289	S	76°53'47"	E	106.07
L290	N	76°55'49"	E	145.21
L291	S	67°16'27"	E	52.05
L292	S	37°22'20"	E	107.13
L293	S	57°07'53"	E	49.97
L294	S	74°16'46"	E	105.28
L295	N	86°13'51"	E	44.40
L296	N	68°36'24"	E	88.90
L297	N	35°18'49"	E	27.57
L298	N	49°07'18"	E	37.77
L299	N	33°19'44"	E	39.59
L300	N	25°29'14"	E	47.74
L301	N	16°48'43"	E	66.27
L302	N	51°48'02"	E	94.56
L303	N	69°14'06"	E	30.29
L304	N	50°26'50"	E	64.42
L305	N	70°41'12"	E	75.92
L306	S	75°54'22"	E	124.38
L307	N	86°42'38"	E	33.79
L308	N	69°04'54"	E	30.99
L309	N	79°58'03"	E	36.87
L310	N	87°49'28"	E	75.75
L311	N	89°54'54"	E	89.75
L312	N	75°33'38"	E	32.99
L313	N	71°24'41"	E	44.11
L314	S	81°09'36"	E	68.97
L315	N	70°43'00"	E	25.54
L316	N	89°57'02"	E	61.87
L317	N	72°10'14"	E	60.45
L318	N	74°09'58"	E	64.43
L319	S	87°21'06"	E	62.19
L320	S	57°57'45"	E	44.69
L321	S	24°20'41"	E	87.22
L322	S	61°03'17"	E	25.31
L323	S	69°21'47"	E	31.10
L324	N	77°39'36"	E	31.00
L325	S	84°21'34"	E	53.26
L326	S	52°34'29"	E	73.62
L327	S	79°08'56"	E	21.79
L328	N	79°04'40"	E	26.86
L329	N	42°11'13"	E	8.83
L330	S	79°47'29"	E	33.17
L331	N	82°43'48"	E	40.56
L332	N	75°50'52"	E	59.41
L333	N	73°27'36"	E	106.61
L334	N	53°30'11"	E	35.10
L335	N	72°56'45"	E	88.96
L336	N	58°32'50"	E	45.16
L337	N	45°48'26"	E	23.67
L338	N	23°57'31"	E	16.08
L339	N	33°14'27"	E	50.96
L340	N	33°00'40"	E	76.30
L341	N	18°32'26"	E	62.78
L342	N	25°27'00"	E	22.23
L343	N	11°10'56"	E	45.80
L344	N	07°32'45"	E	53.12

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L345	N	13°35'47"	W	35.98
L346	N	38°56'47"	E	43.66
L347	N	65°33'14"	E	72.04
L348	N	27°39'55"	E	25.76
L349	N	05°00'00"	W	28.44
L350	N	11°01'52"	E	65.03
L351	N	11°39'07"	E	36.61
L352	N	33°22'38"	E	52.92
L353	N	83°36'38"	E	35.98
L354	S	63°19'52"	E	25.50
L355	S	32°19'53"	E	40.23
L356	S	59°15'33"	E	19.04
L357	S	55°21'09"	E	32.73
L358	S	83°07'50"	E	19.15
L359	N	65°11'41"	E	28.20
L360	N	23°26'02"	E	62.57
L361	N	40°58'07"	W	25.02
L362	N	81°08'54"	E	38.03
L363	N	57°12'56"	E	23.41
L364	N	45°24'56"	E	51.65
L365	N	58°08'38"	E	26.89
L366	N	76°05'57"	E	40.66
L367	N	85°35'24"	E	30.03
L368	N	60°57'58"	E	126.93
L369	N	68°23'01"	E	54.05
L370	N	84°43'24"	E	63.21
L371	S	71°25'19"	E	51.46
L372	N	89°08'41"	E	21.76
L373	N	64°26'11"	E	51.97
L374	N	75°16'01"	E	73.04
L375	N	69°49'24"	E	62.74
L376	N	39°12'34"	E	14.17
L377	N	58°19'18"	E	93.89
L378	N	40°06'04"	E	38.69
L379	N	31°51'35"	E	53.87
L380	N	41°57'20"	E	33.97
L381	N	62°54'13"	E	71.66
L382	N	47°02'36"	E	36.68
L383	N	13°46'47"	E	43.85
L384	N	50°01'29"	E	57.38
L385	N	52°03'02"	E	5.83
L386	N	65°00'33"	E	47.83
L387	N	49°59'42"	E	105.39
L388	N	58°19'13"	E	67.82
L389	N	68°11'39"	E	28.23
L390	N	85°59'02"	E	196.62
L391	S	68°34'24"	E	23.59
L392	S	40°51'46"	E	82.01
L393	S	69°38'40"	E	32.19
L394	N	89°43'52"	E	39.53
L395	N	50°38'06"	E	16.36
L396	N	12°11'03"	E	10.78
L397	N	08°14'11"	W	11.68
L398	S	89°02'41"	E	61.32

to point where monument marked "REF No. 10" bears S.68°33'05"W. 22.23 varas. Said monument has Coordinates on Texas Coordinate System of 1927 - North Zone of Y=258,225.78 varas and X=788,589.39 varas.

Thence continuing downstream along the Right or Southerly Bank of the Canadian River with the meanders of the Gradient Boundary as follows: (All distances are grid varas)



STATE OF TEXAS § Gradient Boundary  
 COUNTY Right Bank of Canadian  
 OF River  
 ROBERTS §

L399	S	73°51'36"	E	22.17
L400	N	77°21'52"	E	38.83
L401	N	64°56'50"	E	11.62
L402	N	29°31'57"	E	44.08
L403	N	15°22'35"	W	18.34
L404	N	45°42'20"	W	25.06
L405	N	46°31'19"	E	68.33
L406	N	58°21'00"	E	13.44
L407	N	33°56'55"	E	14.47
L408	N	09°44'55"	W	11.64
L409	N	13°35'15"	E	24.17
L410	N	16°22'54"	W	19.40
L411	N	14°05'09"	E	39.25
L412	N	50°34'09"	E	97.59
L413	N	41°01'37"	E	99.25
L414	N	23°11'21"	E	37.95
L415	N	08°25'56"	E	20.65
L416	N	53°09'54"	E	64.65
L417	N	39°58'57"	E	34.39
L418	N	19°51'22"	E	43.94
L419	N	13°42'09"	E	28.19
L420	N	42°27'01"	E	32.84
L421	N	69°41'17"	E	36.91
L422	N	54°47'07"	E	24.92
L423	N	76°34'08"	E	30.62
L424	S	71°31'21"	E	79.22
L425	N	71°12'32"	E	37.33
L426	N	48°03'35"	E	42.16
L427	N	33°20'52"	E	41.12
L428	N	77°01'17"	E	64.67
L429	N	66°58'27"	E	46.28
L430	N	63°49'36"	E	42.61
L431	N	81°53'38"	E	91.50
L432	N	71°36'18"	E	88.91
L433	N	89°30'34"	E	60.10
L434	N	80°14'03"	E	27.41
L435	N	68°26'48"	E	49.38
L436	N	89°42'59"	E	47.62
L437	S	70°47'17"	E	28.67
L438	S	78°31'44"	E	25.08
L439	N	64°42'19"	E	20.03
L440	S	84°50'40"	E	63.08
L441	S	78°21'01"	E	60.28
L442	S	68°45'51"	E	45.35
L443	S	80°23'28"	E	35.62
L444	S	88°45'46"	E	56.32
L445	S	75°33'16"	E	53.28
L446	S	75°26'52"	E	39.67
L447	S	46°17'23"	E	86.10
L448	S	70°20'44"	E	23.25
L449	S	88°20'30"	E	32.99
L450	N	57°10'42"	E	54.15
L451	N	49°43'52"	E	32.25
L452	N	30°53'19"	E	80.39
L453	N	27°15'12"	E	44.16
L454	N	43°50'25"	E	53.67

STATE OF TEXAS § Gradient Boundary  
 COUNTY Right Bank of Canadian  
 OF River  
 ROBERTS §

L455	S	62°45'35"	E	59.37
L456	S	84°05'16"	E	24.41
L457	N	46°42'46"	E	17.44
L458	N	11°12'06"	E	24.19
L459	N	61°10'20"	E	60.50
L460	N	77°44'08"	E	57.75
L461	N	85°37'29"	E	52.43
L462	N	88°41'34"	E	50.83
L463	S	87°02'08"	E	25.56
L464	S	64°33'47"	E	54.38
L465	S	64°53'53"	E	73.53
L466	S	34°33'01"	E	61.59
L467	S	50°39'25"	E	57.86
L468	N	86°25'54"	E	40.70
L469	N	69°58'48"	E	61.93
L470	N	47°47'20"	E	34.17
L471	N	31°31'49"	E	32.32
L472	S	80°45'54"	E	26.94
L473	S	20°41'34"	E	44.47
L474	S	85°41'21"	E	16.90
L475	N	80°27'18"	E	13.17
L476	S	78°58'57"	E	71.80
L477	N	84°28'25"	E	61.98
L478	N	70°53'07"	E	29.05
L479	N	69°19'16"	E	42.99
L480	S	72°27'49"	E	17.73
L481	S	19°43'13"	E	49.32
L482	S	33°00'04"	W	80.02
L483	S	19°51'50"	E	11.96
L484	S	57°34'14"	E	38.61
L485	N	83°58'02"	E	17.39
L486	N	69°02'49"	E	33.33
L487	N	29°28'14"	E	32.32
L488	N	85°07'59"	E	44.84
L489	N	77°43'44"	E	16.85
L490	S	80°35'34"	E	69.16
L491	S	50°45'16"	E	27.16
L492	S	22°31'41"	E	54.82
L493	S	54°16'28"	E	44.10
L494	S	63°41'11"	E	100.31
L495	S	56°23'19"	E	71.01
L496	S	47°29'28"	E	67.90
L497	S	65°54'23"	E	48.08
L498	N	88°57'51"	E	76.59
L499	S	66°14'15"	E	33.25
L500	S	21°26'49"	E	50.73
L501	S	48°40'18"	E	79.92
L502	S	53°14'29"	E	73.35
L503	S	73°13'41"	E	66.08
L504	S	78°19'57"	E	66.90
L505	S	50°50'35"	E	74.11
L506	S	53°27'20"	E	53.72
L507	S	59°05'22"	E	102.63
L508	S	40°20'12"	E	74.92
L509	S	14°18'51"	E	24.38
L510	S	24°17'11"	W	67.58
L511	S	14°27'36"	W	30.49
L512	S	21°34'39"	E	37.25
L513	S	35°50'37"	E	90.55
L514	S	44°10'40"	E	89.83

STATE OF TEXAS	§	Gradient Boundary
COUNTY		Right Bank of Canadian
OF		River
ROBERTS	§	
L515	S 26°12'45"	E 46.84
L516	S 51°17'44"	E 102.00
L517	S 65°47'39"	E 48.73
L518	S 78°53'48"	E 68.98
L519	N 82°00'40"	E 76.11
L520	N 78°10'28"	E 30.38
L521	N 84°45'37"	E 31.44
L522	S 80°38'04"	E 32.57
L523	S 75°42'59"	E 33.81
L524	S 21°33'21"	E 60.62
L525	S 04°13'49"	W 41.78
L526	S 17°21'02"	E 49.33
L527	S 42°11'14"	E 37.10
L528	S 74°47'18"	E 12.88
L529	S 63°04'40"	E 40.43
L530	S 63°10'17"	E 40.09
L531	S 16°55'35"	E 54.52

to a point where 4" iron pipe post found marked "NECOR SEC 2" bears S.0°28'38"E. 25.82 varas.

Thence continuing downstream along the Right of Southerly Bank of the Canadian River with the meanders of the Gradient Boundary as follows: (All distances are grid varas).

L532	S 16°55'44"	E 7.08
L533	S 36°25'17"	E 17.34
L534	S 53°51'12"	E 45.23
L535	S 70°41'50"	E 59.27
L536	N 87°51'51"	E 26.98
L537	N 66°23'34"	E 43.06
L538	N 36°58'15"	E 41.46
L539	N 80°35'32"	E 24.96
L540	S 64°28'59"	E 42.95
L541	N 85°59'04"	E 97.90
L542	S 80°54'57"	E 63.96
L543	N 89°52'26"	E 88.31
L544	N 83°33'12"	E 45.62
L545	S 69°10'39"	E 42.90
L546	N 84°26'45"	E 44.33
L547	N 56°20'15"	E 26.51
L548	N 66°35'39"	E 49.33
L549	N 82°53'03"	E 68.28
L550	S 88°57'12"	E 78.82
L551	N 72°03'11"	E 29.45
L552	N 62°50'23"	E 33.00
L553	N 85°15'38"	E 42.01
L554	S 38°07'53"	E 45.88
L555	S 55°29'02"	E 25.63

to a point for the end of this portion of the Gradient Boundary from which fence corner post where existing fence traverses S.0°28'38"E. along or near the East line of H. & T.C.R.R. Co. Survey 1, Block 46 bears S.0°28'38"E. 124.64 varas and monument marked "REF No. 17" bears S.0°28'00"W. 19.94 varas. Said monument has Coordinates on the Texas Coordinate System of 1927 - North Zone of Y=257,577.92 varas and X=794,247.24 varas.

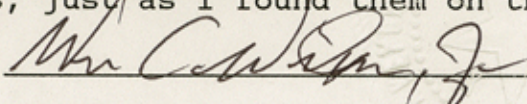
STATE OF TEXAS § Gradient Boundary  
COUNTY Right Bank of Canadian  
OF River  
ROBERTS §

CONTROL: N.G.S. (U.S.C. & G.S.) Triangulation Stations BEE, BULGE, LOOP, MOORE, ROBERTS NORTH BASE. Data for Station ROBERTS NORTH BASE, Y=247,232.44 varas, X=769,691.23 varas, Theta Angle = +0°16'12", Scale factor = 0.9999442, Elevation factor = 0.99986709 (all at ROBERTS NORTH BASE). All courses, distances and Coordinates refer to the Texas Coordinate System of 1927 - North Zone.

FIELD SURVEY PERSONNEL: Wm. C. Wilson, Jr., A. K. "Bud" McMahan, Gerald McMahan, Ronald Johnson.

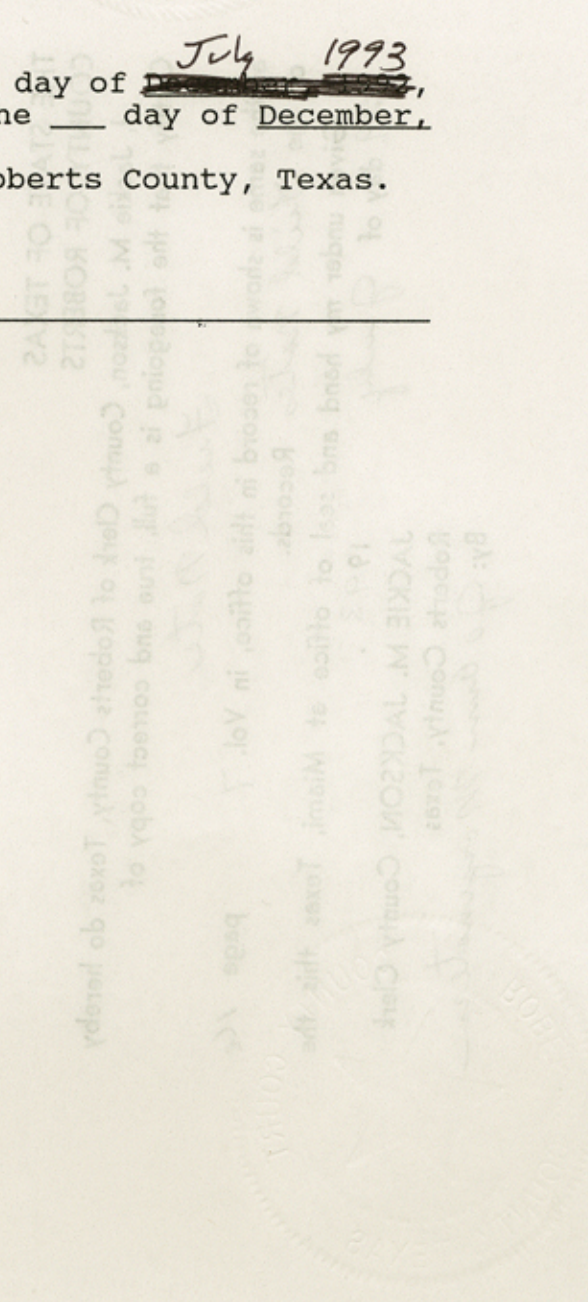
SURVEYED: September 8 to October 22, 1992.

I, Wm. C. Wilson, Jr. Licensed State Land Surveyor of Tom Green County, Texas do hereby certify that the foregoing survey was made by me on the ground according to law, and on the date and with the field survey personnel aforesaid, duly qualified, and that the limits, corners and boundaries with the marks of the same, natural and artificial, are truly and correctly described and set forth in the foregoing field notes, just as I found them on the ground.

  
\_\_\_\_\_  
Licensed State Land Surveyor

Filed for record in my office, the 29 day of July 1993, at \_\_\_\_\_ o'clock \_\_ M, and duly recorded the \_\_\_ day of December, 1992 in Book \_\_\_\_\_ Page \_\_\_\_\_ of the Field Note Records of Roberts County, Texas.

\_\_\_\_\_  
County Clerk



**RECEIVED**  
 AUG - 4 1993  
 GENERAL LAND OFFICE

Page \_\_\_\_\_ of the Field Note Records of  
 Book \_\_\_\_\_ of the State of Texas

County Clerk

**THE STATE OF TEXAS  
 COUNTY OF ROBERTS**

I, Jackie M. Jackson, County Clerk of Roberts County, Texas do hereby  
 Certify that the foregoing is a full, true and correct copy of

*Field Notes*

as the same is shown of record in this office, in Vol. 7 page 16  
 of the *Field Notes* Records.

Given under my hand and seal of office at Miami, Texas this the  
 29 day of *July* 1993.

JACKIE M. JACKSON, County Clerk  
 Roberts County, Texas  
 By: *Jo Ann Morgenstern*

The foregoing field notes, just as I found  
 and certified, are truly and correctly  
 copies of the original field notes  
 and boundaries with the same as  
 found on the ground according to law,  
 and on the survey of the same with  
 the county, Texas do hereby certify that  
 the foregoing survey was made  
 by me, G. Wilson, Jr., Licensed State Land  
 Surveyor of the State of Texas.



Surveyed: September 3 to October 28, 1993.  
 FIELD SURVEY PERSONNEL: Mr. G. Wilson, Jr., A. K. "Bud" Kerkman,  
 Gerald Kerkman, Ronald Johnson.

the Texas Coordinate System of 1983 - North zone.  
 All courses, distances and coordinates refer to  
 elevation factor = 0.99986300 (all at Roberts North  
 zone). True angle = 0.78. 12. Scale factor = 0.999843.  
 Roberts North Base: Y=37,323.44 meters, X=7,797.66. 33  
 Loop: North Roberts North Base. Data for station  
 control: N.G.S. (N.T.S. 6.0.2.) Triangulation station BRN, BUNGE.

ROBERTS  
 COUNTY  
 STATE OF TEXAS  
 River  
 Grant Bank of Canadian