

"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
 COUNTY Left Bank of Canadian
 OF § River
 HUTCHINSON §

See Hutchinson County Rolled
 Sketch ~~43~~ 43

FIELD NOTES of survey of Gradient Boundary along
 the Left Bank of a portion of the Canadian
 River made for Catharine C. Whittenburg
 Trusts by virtue of its Riparian ownership of
 adjoining H. & T. C.R.R. Co. Surveys 1 through

13 Block 47, H. & G.N.R.R. Co. Surveys 1 through 4 Block G, and H. &
 G.N.R.R. Co. Surveys 14 through 16 Block E, Hutchinson 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
 Hutchinson County, about 11 miles East from Stinnett, the County Seat
 and is described by metes and bounds as follows, to wit:

Beginning at a point in the Gradient Boundary on the Left or Northerly
 Bank of the Canadian River from which monument marked "REF No. 9" bears
 North 8.24 varas. Said monument has Coordinates on the Texas Coordinate
 System of 1927 - North Zone of Y=235,258.17 varas and X=741,007.99 varas
 and is set in an existing fence which is located along or near the
 common line of H. & T.C.R.R. Co. Surveys 13 and 14 Block 47.

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

L1	N 84°00'43"	E	32.24
L2	S 80°26'56"	E	62.34
L3	S 74°15'02"	E	93.07
L4	N 78°10'28"	E	35.29
L5	N 71°37'36"	E	53.72
L6	N 85°38'02"	E	18.39
L7	S 81°18'04"	E	45.30
L8	N 73°18'24"	E	36.20
L9	S 86°32'40"	E	23.79
L10	S 77°26'02"	E	43.67
L11	S 76°12'30"	E	68.66
L12	S 75°47'13"	E	26.07
L13	N 87°07'34"	E	50.23
L14	N 67°26'29"	E	40.98
L15	N 52°21'22"	E	23.46
L16	N 45°45'20"	E	49.61
L17	N 45°36'04"	E	91.16
L18	N 38°45'26"	E	42.69
L19	N 67°17'44"	E	42.50
L20	N 44°38'53"	E	19.10
L21	N 16°31'54"	E	57.98
L22	N 54°27'48"	E	17.19
L23	N 84°03'23"	E	25.61
L24	N 68°34'21"	E	28.73
L25	N 33°24'25"	E	14.15
L26	N 42°15'01"	E	25.35
L27	N 44°00'08"	E	51.15
L28	N 31°19'31"	E	23.16
L29	N 11°03'37"	E	31.26
L30	N 13°19'55"	E	21.49
L31	N 36°23'43"	E	35.25
L32	N 44°06'00"	E	66.85
L33	N 31°08'33"	E	20.48
L34	N 30°52'57"	E	81.97
L35	N 41°25'29"	E	37.97

By David Dewhurst, Commissioner
David Dewhurst, Commissioner
 Date Filed: February 17, 2000

File No. Sketch File 49

Hutchinson County
 Gradient Boundary Survey (along left (north) bank of Canadian River
 made for Catharine C. Whittenburg Trusts by virtue of riparian ownership
 of adjoining H.T.C.R.R. Co. G.L.C. 47, Sur. 1-13, 14-16, H & G.N.R.R. Co. B.L.K. G.
 Surveys 1-4, Sur. 1-4 H.T.S. K.R.R. Co. B.L.K. E, Sur. 14-16

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STATE OF TEXAS § Gradient Boundary
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L36	N	48°10'00"	E	5.00
L37	N	48°11'02"	E	20.58
L38	N	63°57'06"	E	50.24
L39	N	75°02'20"	E	53.80
L40	S	86°40'44"	E	25.32
L41	N	57°30'08"	E	44.50
L42	N	67°29'30"	E	57.76
L43	N	55°44'13"	E	43.04
L44	N	72°56'22"	E	89.25
L45	N	59°24'08"	E	96.29
L46	N	64°53'56"	E	86.79
L47	N	79°54'13"	E	38.31
L48	S	73°56'59"	E	24.74
L49	N	65°30'46"	E	33.23
L50	N	81°57'59"	E	53.52
L51	N	68°21'19"	E	46.68
L52	N	81°27'12"	E	40.76
L53	S	85°31'23"	E	99.17
L54	S	62°02'48"	E	18.05
L55	S	46°21'22"	E	42.58
L56	N	88°02'30"	E	29.00
L57	S	64°25'12"	E	11.16
L58	S	35°25'28"	E	8.88
L59	S	23°44'36"	E	32.38
L60	S	15°30'11"	E	24.15
L61	S	80°10'42"	E	22.35
L62	N	80°33'12"	E	17.42
L63	S	75°17'16"	E	38.56
L64	N	63°52'26"	E	52.31
L65	N	88°39'09"	E	45.45
L66	N	78°01'43"	E	38.16
L67	N	78°22'53"	E	57.45
L68	N	66°10'10"	E	61.13
L69	N	84°25'22"	E	61.06

to a point where monument marked "REF No. 3" bears N.5°49'46"W. 3.71 varas. Said monument has Coordinates on the Texas Coordinate System of 1927 - North Zone of Y=236,053.34 varas and X=743,461.90 varas.

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

L70	N	78°21'11"	E	33.64
L71	S	86°15'22"	E	37.17
L72	N	77°31'36"	E	37.85
L73	N	83°15'11"	E	94.72
L74	S	80°39'58"	E	22.44
L75	S	66°00'00"	E	11.90
L76	S	40°53'58"	E	6.40
L77	N	81°12'28"	E	13.37
L78	N	61°24'17"	E	15.02
L79	S	56°42'57"	E	35.52
L80	S	53°51'44"	E	49.41
L81	S	38°14'30"	E	64.08
L82	S	71°05'36"	E	19.56
L83	S	82°41'39"	E	66.94
L84	S	88°11'54"	E	60.76
L85	N	82°34'22"	E	39.58
L86	N	72°46'53"	E	23.90
L87	N	76°42'19"	E	54.20

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L88	N	64°28'20"	E	45.97
L89	S	88°07'28"	E	36.74
L90	N	63°34'56"	E	38.92
L91	N	72°44'03"	E	29.66
L92	N	52°01'33"	E	39.75
L93	N	68°54'15"	E	22.04
L94	S	77°35'21"	E	42.06
L95	S	66°39'16"	E	32.86
L96	S	28°29'38"	E	42.06
L97	S	53°03'25"	E	16.45
L98	S	76°43'35"	E	82.23
L99	N	82°01'40"	E	11.52
L100	S	52°45'40"	E	75.02
L101	S	65°30'08"	E	29.43
L102	S	29°50'36"	E	12.81
L103	S	48°19'56"	E	15.22
L104	N	75°33'57"	E	31.26
L105	S	75°45'46"	E	36.14
L106	N	71°37'44"	E	65.25
L107	N	73°58'22"	E	61.08
L108	S	80°26'00"	E	31.76
L109	N	60°42'29"	E	55.75
L110	N	61°50'20"	E	43.60
L111	N	77°57'35"	E	67.68
L112	N	76°22'44"	E	40.05
L113	N	62°05'59"	E	46.39
L114	N	89°59'42"	E	35.46
L115	S	86°30'31"	E	47.96
L116	S	76°04'46"	E	45.92
L117	N	86°50'35"	E	42.50
L118	S	87°21'14"	E	32.98
L119	N	77°04'39"	E	18.76
L120	S	81°22'04"	E	24.66
L121	S	60°01'13"	E	34.23
L122	S	54°35'09"	E	31.13
L123	S	69°12'09"	E	17.55
L124	N	58°16'58"	E	30.16
L125	N	07°57'58"	E	21.40
L126	N	34°28'02"	E	17.23
L127	S	87°37'24"	E	28.12
L128	S	78°18'39"	E	61.03
L129	S	53°03'25"	E	12.34
L130	S	20°34'31"	E	27.04
L131	S	36°39'04"	E	55.61

to a point where monument marked "REF No. 21" bears N.33°11'28"E. 2.20 varas. Said monument has Coordinates on the Texas Coordinate System of 1927 - North Zone of Y=235,922.61 varas and X=745,537.87 varas.

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

L132	S	75°38'51"	E	21.53
L133	S	72°34'54"	E	25.18
L134	S	60°55'50"	E	47.95
L135	S	70°33'42"	E	29.20
L136	S	40°09'26"	E	20.18
L137	S	69°58'34"	E	17.12
L138	N	74°05'02"	E	26.73

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L139	S	48°38'12"	E	32.24
L140	S	33°28'36"	E	20.52
L141	S	77°07'02"	E	10.68
L142	N	62°20'41"	E	20.49
L143	S	85°37'44"	E	11.81
L144	S	54°55'37"	E	12.32
L145	S	89°30'19"	E	25.81
L146	S	79°37'12"	E	98.19
L147	N	86°46'27"	E	40.45
L148	S	67°08'04"	E	16.68
L149	S	48°50'40"	E	24.73
L150	S	59°52'51"	E	31.42
L151	N	79°12'50"	E	36.47
L152	S	65°45'49"	E	80.54
L153	S	65°26'14"	E	56.70
L154	S	48°58'14"	E	35.97
L155	S	88°04'17"	E	33.34
L156	S	50°49'15"	E	13.39
L157	S	10°09'06"	E	19.06
L158	S	52°38'21"	E	13.24
L159	N	66°10'54"	E	24.09
L160	S	69°02'16"	E	29.06
L161	N	44°28'37"	E	119.90
L162	N	39°51'38"	E	32.07
L163	N	65°46'56"	E	42.71
L164	N	64°13'27"	E	22.47
L165	N	89°11'59"	E	23.51
L166	N	51°48'15"	E	15.74
L167	N	17°13'43"	E	20.14
L168	N	44°53'53"	E	80.95
L169	N	27°30'48"	E	30.01
L170	N	55°38'24"	E	54.08
L171	N	59°47'49"	E	52.42
L172	N	65°45'42"	E	52.99
L173	N	52°53'54"	E	57.28
L174	N	75°59'10"	E	37.28
L175	N	47°58'32"	E	54.09
L176	N	72°09'05"	E	36.78
L177	N	37°37'01"	E	55.23
L178	N	30°02'59"	E	48.29
L179	N	34°02'15"	E	91.91
L180	N	75°41'09"	E	29.06
L181	N	12°57'01"	E	25.84
L182	N	01°56'50"	W	49.22
L183	N	13°58'43"	E	34.99
L184	N	36°45'50"	E	30.93
L185	N	70°30'54"	E	45.79
L186	S	76°02'14"	E	67.81
L187	N	82°41'12"	E	30.53
L188	N	67°15'46"	E	77.24
L189	N	88°10'54"	E	47.53
L190	N	38°38'33"	E	31.09
L191	N	03°40'16"	E	31.10
L192	N	58°01'10"	E	17.96
L193	S	64°07'15"	E	13.79
L194	S	25°36'08"	E	11.70
L195	S	83°40'32"	E	14.57
L196	N	48°28'31"	E	38.49
L197	N	25°22'22"	E	17.41
L198	N	57°28'59"	E	81.41
L199	N	66°30'01"	E	38.25

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L200	N	68°11'01"	E	23.20
L201	N	32°14'43"	E	19.28
L202	N	06°29'35"	W	37.40
L203	N	48°29'08"	E	22.59
L204	N	44°58'04"	E	49.79
L205	N	84°17'39"	E	28.58
L206	S	47°32'43"	E	13.29
L207	N	55°06'43"	E	18.81
L208	N	15°45'48"	E	21.18
L209	N	50°22'13"	E	32.88
L210	N	20°29'23"	E	95.54
L211	N	40°46'44"	E	24.20
L212	N	07°18'08"	W	17.49
L213	N	37°51'56"	W	21.55
L214	N	02°47'34"	W	21.85
L215	N	27°51'03"	E	24.89
L216	N	57°51'28"	W	22.59
L217	N	01°49'18"	W	13.98
L218	N	27°43'17"	E	26.98
L219	N	00°25'00"	E	13.13
L220	N	39°10'44"	W	23.25
L221	N	27°35'15"	W	28.97
L222	N	10°19'55"	E	17.35
L223	N	35°26'39"	E	35.76
L224	N	57°57'37"	E	26.80
L225	N	27°24'29"	E	33.56
L226	N	47°39'42"	E	33.97
L227	N	67°32'59"	E	25.23
L228	N	31°04'19"	E	26.82
L229	N	59°59'24"	E	24.60
L230	N	80°16'56"	E	34.10
L231	N	57°32'09"	E	18.57
L232	N	40°11'17"	E	31.44
L233	N	78°44'45"	E	35.33
L234	N	85°26'55"	E	53.62
L235	N	70°20'42"	E	20.56
L236	N	54°26'26"	E	30.94
L237	S	81°48'34"	E	25.25
L238	N	70°43'04"	E	23.87
L239	N	34°11'35"	E	20.01
L240	N	05°59'24"	E	19.51
L241	N	32°16'57"	E	19.29
L242	N	63°44'14"	E	9.06
L243	S	62°43'43"	E	19.51
L244	N	89°25'04"	E	40.84
L245	S	77°48'51"	E	26.33
L246	N	24°22'42"	E	18.32
L247	N	54°11'00"	E	10.46
L248	S	81°36'30"	E	22.52
L249	N	67°31'21"	E	34.94
L250	N	73°07'42"	E	21.84
L251	N	46°10'55"	E	116.01
L252	N	58°31'43"	E	34.55
L253	S	85°29'54"	E	19.61
L254	N	67°01'19"	E	20.00
L255	N	12°52'36"	E	9.57
L256	N	29°40'42"	W	24.62
L257	N	09°42'17"	E	11.94
L258	N	44°11'52"	E	14.67

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L259	N	81°41'57"	E	8.40
L260	S	55°31'35"	E	23.33
L261	S	76°10'13"	E	23.34
L262	N	42°13'07"	E	13.63
L263	N	11°58'43"	E	22.73
L264	N	53°04'52"	E	18.07
L265	N	65°28'27"	E	42.00
L266	N	48°28'08"	E	20.67
L267	N	34°52'04"	E	28.04
L268	N	49°27'40"	E	54.71
L269	N	38°10'01"	E	43.36
L270	N	45°59'50"	E	24.81
L271	N	61°46'47"	E	32.52
L272	N	59°58'55"	E	27.03
L273	N	38°50'45"	E	16.49
L274	N	13°46'24"	W	17.35
L275	N	37°47'25"	E	16.60
L276	N	62°45'15"	E	22.37
L277	N	61°19'06"	E	30.56
L278	S	88°40'47"	E	30.07
L279	N	86°56'19"	E	29.81
L280	N	57°49'09"	E	58.74
L281	N	65°20'26"	E	68.52
L282	N	46°20'42"	E	39.02
L283	N	65°49'54"	E	16.91
L284	S	77°40'41"	E	37.92
L285	S	82°13'55"	E	50.86
L286	N	87°44'11"	E	28.51
L287	S	70°38'24"	E	42.86
L288	N	84°37'13"	E	27.80
L289	S	55°47'00"	E	25.95
L290	S	15°21'51"	E	19.71
L291	S	72°11'45"	E	14.02
L292	N	82°34'06"	E	41.80
L293	S	60°05'36"	E	31.81
L294	S	37°22'52"	E	20.76
L295	S	01°20'37"	E	16.96
L296	S	80°38'19"	E	10.46
L297	S	79°50'31"	E	15.36
L298	S	60°40'59"	E	37.50
L299	S	82°21'47"	E	26.02
L300	N	15°09'06"	E	29.96
L301	N	61°16'33"	E	13.74
L302	S	60°39'02"	E	12.40
L303	S	43°37'30"	E	61.62
L304	S	40°51'43"	E	39.68
L305	S	59°40'40"	E	33.90
L306	N	79°35'15"	E	31.08
L307	S	53°15'00"	E	42.28
L308	S	53°38'14"	E	40.75
L309	S	80°11'56"	E	36.35
L310	N	43°39'40"	E	43.42
L311	N	79°07'19"	E	67.71
L312	N	50°40'51"	E	54.89
L313	N	61°19'38"	E	62.10
L314	N	23°08'54"	E	36.63
L315	N	04°52'01"	E	19.52
L316	N	27°27'09"	E	11.88
L317	N	72°50'28"	E	22.01
L318	N	76°19'28"	E	23.33

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L319	N	44°32'04"	E	23.32
L320	N	65°26'04"	E	44.39
L321	N	84°23'38"	E	57.52
L322	N	57°23'54"	E	41.64
L323	N	72°33'29"	E	55.69
L324	N	58°23'03"	E	46.17
L325	N	66°33'31"	E	31.14
L326	N	73°11'19"	E	26.27
L327	N	84°19'29"	E	25.43
L328	N	49°59'50"	E	34.51
L329	S	63°56'28"	E	11.50
L330	S	55°17'48"	E	25.72
L331	S	69°25'29"	E	35.49
L332	N	85°45'34"	E	9.80
L333	N	65°55'16"	E	13.48
L334	N	59°58'25"	E	43.46
L335	N	82°36'52"	E	17.56
L336	N	49°46'10"	E	59.22
L337	N	74°24'46"	E	41.97
L338	N	02°47'58"	E	41.89
L339	N	56°59'17"	E	11.07
L340	S	86°05'03"	E	14.70
L341	S	49°22'25"	E	30.12
L342	N	73°29'59"	E	24.35
L343	N	14°21'18"	W	37.20
L344	N	37°01'32"	E	18.34
L345	N	46°07'11"	E	28.06
L346	N	13°20'12"	E	37.77
L347	N	21°59'11"	E	30.73
L348	N	06°20'54"	W	31.23
L349	N	32°55'11"	E	16.47
L350	N	69°36'12"	E	12.46
L351	N	03°24'08"	W	51.01
L352	N	10°24'03"	E	41.01
L353	N	08°29'49"	W	36.29
L354	N	27°43'18"	E	22.72
L355	N	12°08'50"	W	51.22
L356	N	08°09'53"	E	28.42
L357	N	31°55'49"	W	46.25
L358	N	16°20'22"	E	33.05
L359	N	05°01'10"	W	42.68
L360	N	07°28'06"	E	33.01
L361	N	17°47'58"	W	89.62
L362	N	09°08'47"	W	45.98
L363	N	04°19'19"	W	46.04
L364	N	17°18'24"	E	77.66
L365	N	02°32'20"	E	66.87
L366	N	21°25'21"	E	49.90
L367	N	31°40'22"	E	37.11
L368	N	01°10'47"	W	44.09
L369	N	28°01'06"	W	34.35
L370	N	12°28'25"	E	61.88
L371	N	20°18'36"	E	38.61
L372	N	56°33'02"	E	24.30
L373	S	70°41'43"	E	19.52
L374	N	52°28'53"	E	12.40
L375	N	10°45'22"	E	29.79
L376	N	13°38'42"	E	28.68
L377	N	09°35'18"	W	42.05
L378	N	11°13'53"	W	75.61
L379	N	59°15'46"	W	39.63

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to a point where monument marked "REF. No. 19" bears S.52°04'29"E. 20.92 varas. Said monument has Coordinates on the Texas Coordinate System of 1927 - North Zone of Y=239,333.26 varas and X=750,673.45 varas.

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

L380	N 44°45'12"	W	50.99
L381	N 09°49'04"	W	15.90
L382	N 00°50'08"	E	28.60
L383	N 53°07'01"	W	33.68
L384	N 17°14'07"	W	13.28
L385	N 00°49'34"	E	84.57
L386	N 20°03'27"	E	102.24
L387	N 15°48'40"	E	60.86
L388	N 37°58'28"	E	36.11
L389	N 00°50'49"	E	44.62
L390	N 30°54'14"	E	36.30
L391	N 11°17'50"	E	31.21
L392	N 22°32'07"	E	30.08
L393	N 06°42'15"	W	24.68
L394	N 25°41'37"	E	10.59
L395	N 73°28'24"	E	23.87
L396	N 43°47'31"	E	29.51
L397	N 26°16'49"	E	50.56
L398	N 06°40'43"	W	28.38
L399	N 15°51'59"	E	61.83
L400	N 23°57'36"	E	50.73
L401	N 59°09'58"	E	16.01
L402	N 23°05'02"	E	35.53
L403	N 40°13'58"	E	44.18
L404	N 07°45'20"	W	33.73
L405	N 13°21'22"	E	37.47
L406	N 43°35'35"	E	34.24
L407	N 04°25'50"	E	35.66
L408	N 37°00'51"	E	30.49
L409	N 61°54'05"	E	42.40
L410	N 29°04'12"	E	23.71
L411	N 04°19'13"	E	24.73
L412	N 32°53'44"	E	33.84
L413	N 13°00'03"	W	39.89
L414	N 04°44'16"	E	37.65
L415	N 01°28'51"	W	31.57
L416	N 23°14'27"	E	42.38
L417	N 53°05'02"	W	26.42
L418	N 09°36'29"	W	10.18
L419	N 67°19'17"	E	22.82
L420	N 22°10'24"	E	14.48
L421	N 08°45'02"	W	21.44
L422	N 14°11'42"	E	41.62
L423	N 39°58'40"	E	126.79
L424	N 51°00'05"	E	30.92
L425	N 59°15'50"	E	54.68
L426	N 26°57'56"	E	37.26
L427	N 67°27'30"	E	34.90
L428	N 21°27'24"	E	31.43
L429	N 44°57'19"	E	50.30
L430	N 60°58'19"	E	31.25
L431	N 35°33'04"	E	33.00
L432	N 59°23'44"	E	28.49

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L433	N	40°05'50"	E	34.81
L434	N	75°52'22"	E	31.89
L435	N	77°50'23"	E	40.00
L436	S	77°25'37"	E	61.64
L437	S	84°49'11"	E	61.16
L438	N	64°08'48"	E	40.00
L439	N	61°04'32"	E	33.60
L440	N	36°17'30"	E	62.99
L441	N	56°17'04"	E	64.11
L442	N	03°17'28"	W	16.55
L443	N	61°12'19"	E	64.15
L444	N	54°05'23"	E	59.37
L445	N	45°23'07"	E	57.07
L446	N	61°31'48"	E	56.84
L447	N	69°16'13"	E	74.07
L448	N	49°36'37"	E	53.73
L449	N	85°41'33"	E	24.59
L450	N	63°18'10"	E	32.66
L451	N	74°06'04"	E	23.66
L452	N	54°54'10"	E	48.87
L453	N	27°34'46"	E	27.18
L454	N	53°35'26"	E	62.22
L455	N	29°57'35"	E	50.09
L456	N	71°39'50"	E	56.01
L457	N	12°33'29"	E	27.22
L458	N	63°31'41"	E	18.81
L459	N	75°52'04"	E	24.19
L460	N	39°01'57"	E	30.55
L461	N	59°16'50"	E	59.84
L462	N	85°25'35"	E	35.26
L463	N	50°02'22"	E	38.77
L464	N	75°06'26"	E	35.14
L465	S	61°11'38"	E	35.94
L466	N	75°02'31"	E	33.82
L467	S	78°53'18"	E	78.15
L468	S	77°11'11"	E	95.04
L469	S	58°48'43"	E	18.98
L470	N	52°04'39"	E	25.72
L471	S	84°19'57"	E	45.72
L472	S	73°33'50"	E	35.98
L473	N	62°01'48"	E	34.05
L474	N	54°14'21"	E	76.68
L475	N	75°34'07"	E	38.38
L476	N	59°01'25"	E	122.22
L477	N	35°47'58"	E	22.20
L478	N	09°21'29"	E	36.99
L479	N	57°07'55"	E	15.39
L480	S	88°13'48"	E	8.52
L481	S	79°35'59"	E	16.72
L482	N	50°13'48"	E	44.62
L483	N	64°24'13"	E	66.13
L484	N	47°59'56"	E	42.50
L485	N	18°29'50"	E	22.88
L486	N	09°56'14"	W	21.23
L487	N	31°07'25"	E	62.72
L488	N	51°07'36"	E	43.97
L489	N	76°42'26"	E	83.90
L490	N	84°50'59"	E	58.66
L491	N	49°36'11"	E	54.95
L492	N	76°49'42"	E	26.52
L493	S	61°36'40"	E	29.96
L494	N	66°06'51"	E	42.62

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L495	S	83°43'02"	E	29.57
L496	S	77°13'02"	E	36.30
L497	N	67°17'32"	E	65.60
L498	S	75°01'42"	E	34.36
L499	S	70°35'40"	E	41.34
L500	S	82°37'49"	E	53.91
L501	S	66°49'53"	E	77.30
L502	S	56°08'36"	E	45.47
L503	S	71°29'56"	E	37.91
L504	S	40°45'32"	E	48.53
L505	S	68°24'26"	E	41.23
L506	S	44°46'12"	E	31.24
L507	S	56°59'32"	E	67.31
L508	S	60°35'14"	E	36.23
L509	S	41°22'27"	E	49.31
L510	S	58°30'56"	E	37.49
L511	S	09°56'34"	E	34.29
L512	S	63°38'59"	E	30.38
L513	S	35°13'25"	E	35.10
L514	S	71°34'08"	E	12.42
L515	N	78°11'43"	E	24.66
L516	S	82°20'54"	E	20.67
L517	S	58°15'46"	E	72.85
L518	S	46°25'04"	E	41.41
L519	S	86°19'18"	E	29.89
L520	N	47°35'54"	E	62.99
L521	N	42°52'18"	E	50.18
L522	N	63°41'40"	E	71.63
L523	S	89°18'49"	E	58.33
L524	N	37°13'37"	E	44.00
L525	N	52°02'46"	E	34.66
L526	N	38°29'52"	E	63.15
L526-A	N	30°36'32"	E	30.73
L527	N	47°52'09"	E	10.26
L528	N	20°30'22"	E	48.73
L529	N	41°10'25"	E	39.69
L530	N	60°44'24"	E	43.48
L531	N	31°27'02"	E	36.38
L532	N	45°36'33"	E	53.76
L533	N	38°27'04"	E	51.25
L534	N	17°16'45"	E	44.16
L535	N	32°39'43"	E	59.39
L536	N	60°10'35"	E	50.26
L537	N	23°30'57"	E	48.21
L538	N	64°44'39"	E	18.04
L539	N	71°16'18"	E	49.98
L540	N	64°53'18"	E	73.16
L541	N	88°52'26"	E	28.01
L542	N	58°07'16"	E	48.65
L543	N	35°22'12"	E	19.81
L544	N	72°18'37"	E	18.81
L545	S	62°16'34"	E	22.84
L546	N	59°58'57"	E	53.53
L547	N	72°28'44"	E	42.07
L548	N	76°49'06"	E	46.36
L549	N	25°45'54"	E	22.57
L550	N	22°06'22"	E	40.30
L551	N	31°08'33"	E	53.68
L552	N	19°53'55"	E	39.17
L553	N	03°07'57"	W	71.51
L554	N	10°49'12"	E	25.70

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L555	N	37°50'52"	E	29.19
L556	N	15°20'31"	E	32.98
L557	N	33°03'53"	E	33.91
L558	N	11°19'34"	E	39.06
L559	N	51°17'51"	E	29.04
L560	N	13°54'18"	E	24.72
L561	N	09°12'09"	W	24.89
L562	N	31°14'25"	E	32.26
L563	N	36°18'38"	E	60.48
L564	N	82°02'05"	E	29.45
L565	N	13°58'58"	E	40.93
L566	N	23°18'12"	E	45.26
L567	N	36°16'12"	E	60.03
L568	N	52°12'38"	E	42.78
L569	N	26°13'47"	E	41.85
L570	N	59°41'35"	E	13.24
L571	S	77°41'38"	E	11.26
L572	N	22°56'48"	E	73.14
L573	N	30°53'44"	E	34.22
L574	N	68°20'48"	E	41.03
L575	N	37°50'16"	E	57.91
L576	N	24°18'13"	E	45.84
L577	N	71°22'56"	E	138.07

to a point from which monument marked "REF No. 1" bears N.21°15'48"W. 19.75 varas. Said monument has Coordinates on the Texas Coordinate System of 1927 - North Zone of Y=243,381.48 varas and X=756,049.71 varas.

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

L578	N	75°50'48"	E	40.58
L579	N	61°55'40"	E	63.15
L580	N	69°43'54"	E	60.01
L581	N	69°16'39"	E	59.45
L582	S	79°51'14"	E	38.98
L583	N	75°50'45"	E	25.93
L584	N	36°07'48"	E	33.04
L585	N	77°27'58"	E	45.53
L586	S	82°28'49"	E	27.69
L587	S	56°39'47"	E	23.36
L588	S	03°09'05"	E	21.57
L589	N	80°17'38"	E	12.01
L590	N	21°51'47"	E	28.64
L591	N	75°03'49"	E	15.18
L592	S	55°42'30"	E	12.75
L593	N	49°53'45"	E	69.34
L594	N	68°06'32"	E	13.86
L595	S	78°09'25"	E	34.88
L596	N	79°54'00"	E	25.90
L597	N	60°56'24"	E	50.02
L598	N	77°19'54"	E	49.11
L599	N	55°57'56"	E	26.05
L600	S	69°03'19"	E	40.12
L601	N	76°11'58"	E	87.25
L602	N	45°03'20"	E	52.03
L603	N	58°24'14"	E	108.13
L604	N	33°19'20"	E	34.52
L605	N	64°16'40"	E	11.79
L606	S	83°04'33"	E	82.76

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L607	N	30°21'09"	E	23.36
L608	N	58°25'45"	E	36.98
L609	N	88°32'52"	E	22.85
L610	N	31°52'59"	E	57.68
L611	N	37°23'54"	E	30.66
L612	N	58°01'08"	E	15.42
L613	S	85°26'23"	E	64.77
L614	N	72°01'26"	E	57.45
L615	N	75°43'16"	E	63.71
L616	N	81°44'17"	E	84.11
L617	S	87°56'55"	E	47.16
L618	N	45°03'05"	E	36.24
L619	N	52°55'10"	E	44.91
L620	N	41°45'08"	E	67.84
L621	N	37°53'36"	E	77.22
L622	N	23°46'50"	E	50.17
L623	N	61°02'09"	E	175.80
L624	N	25°20'08"	E	33.58
L625	N	47°38'01"	E	20.02
L626	S	77°53'39"	E	14.39
L627	S	63°30'49"	E	43.37
L628	N	62°52'48"	E	15.09
L629	N	17°41'26"	W	21.27
L630	N	60°22'42"	E	22.13
L631	S	61°02'08"	E	14.33
L632	N	60°02'51"	E	44.19
L633	N	44°55'22"	E	42.66
L634	N	36°06'01"	E	44.75
L635	N	57°16'49"	E	12.17
L636	N	53°35'58"	E	32.25
L637	N	12°54'37"	E	52.25
L638	N	45°49'14"	E	22.31
L639	N	59°55'31"	E	60.84
L640	N	43°09'33"	E	35.00
L641	N	58°23'41"	E	48.31
L642	N	80°50'08"	E	54.76
L643	S	56°22'20"	E	39.90
L644	S	81°15'37"	E	41.54
L645	N	63°04'30"	E	32.27
L646	N	41°36'00"	E	46.34
L647	N	21°04'21"	E	43.96
L648	N	12°45'49"	E	85.00
L649	N	12°53'31"	E	93.24
L650	N	22°38'11"	E	50.01
L651	N	15°05'11"	E	48.97
L652	N	21°45'19"	E	27.12
L653	N	42°13'12"	E	61.81
L654	N	06°18'32"	E	47.64
L655	N	31°01'06"	E	38.26
L656	N	36°23'24"	E	51.50
L657	N	47°49'38"	E	16.97
L658	N	72°29'16"	E	54.21
L659	N	65°33'30"	E	70.53
L660	N	48°38'37"	E	30.31
L661	N	72°48'34"	E	38.01
L662	S	68°03'24"	E	29.89
L663	N	65°57'03"	E	25.83
L664	S	84°50'07"	E	40.98
L665	N	62°53'42"	E	54.47
L666	N	69°30'54"	E	24.89
L667	N	83°54'06"	E	101.29

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L668	N	59°17'03"	E	53.01
L669	N	82°22'54"	E	53.73
L670	S	66°52'08"	E	74.45
L671	S	89°12'59"	E	36.54
L672	N	56°47'33"	E	77.17
L673	N	43°39'30"	E	34.48
L674	N	32°33'19"	E	27.56
L675	N	20°00'38"	E	52.38
L676	N	06°17'23"	W	116.02
L677	N	22°54'54"	W	36.43
L678	N	02°29'51"	W	28.31
L679	N	28°10'32"	E	30.76
L680	N	44°05'49"	W	29.64
L681	N	75°15'15"	W	17.85
L682	N	20°04'56"	W	32.50
L683	N	68°53'30"	E	13.92
L684	N	00°33'02"	W	37.89
L685	N	29°05'46"	E	131.44
L686	N	39°43'30"	E	76.30
L687	N	22°31'47"	E	52.15
L688	N	42°54'00"	E	30.06
L689	N	71°19'59"	E	31.83
L690	N	24°16'04"	E	73.49
L691	N	39°29'11"	E	50.35
L692	N	59°57'42"	E	41.39
L693	S	74°11'50"	E	36.45
L694	N	60°54'17"	E	33.28
L695	N	01°24'41"	W	13.31
L696	N	48°24'25"	W	44.41
L697	N	46°37'06"	E	64.00
L698	N	71°00'50"	E	50.17
L699	N	31°49'43"	E	61.19
L700	N	64°50'35"	E	10.46

to a point for the end of this portion of said Gradient Boundary from which monument marked "REF No. 22" bears N.0°06'18"W. 3.79 varas. Said monument has Coordinates on the Texas Coordinate System of 1927 - North Zone of Y=246,114.98 varas and X=759,810.82 varas and is set in line with existing fence which traverses N.0°06'18"W. along or near the common line of H. & G.N.R.R. Co. Surveys 13 and 14 Block E.

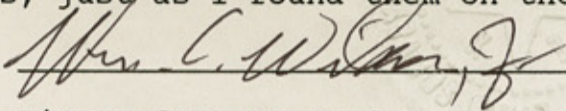
CONTROL: N.G.S. (U.S.C. & G.S.) Triangulation Stations BEE, BULGE, LOOP, MOORE, ROBERTS NORTH BASE. Data for Station ROBERTS NORTH BASE, Y=247,232.44 varas, X=769,691.23 varas, Theta Angle = +0°16'12", Scale factor = 0.9999442, Elevation factor = 0.99986709 (all at ROBERTS NORTH BASE). All courses, distances 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, and Ronald Johnson.

SURVEYED: September 8 to October 22, 1992.

STATE OF TEXAS § Gradient Boundary
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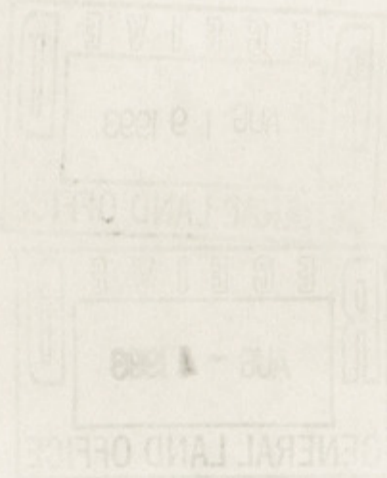
I, Wm. C. Wilson, Jr. Licensed State Land Surveyor of Tom Green County, Texas do hereby certify that the foregoing survey was made by me on the ground according to law, and on the date and with the field survey personnel aforesaid, duly qualified, and that the limits, corners and boundaries with the 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.



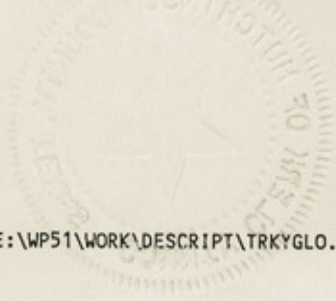
Licensed State Land Surveyor

Filed for record in my office, the ____ day of December, 1992,
at ____ o'clock __ M, and duly recorded the ____ day of December,
1992, in Book _____
Page _____ of the Field Note Records of Hutchinson County, Texas.

County Clerk



The foregoing instrument is a full, true and correct
copy of the original on file in this office in Vol. _____
of the _____
_____ 19____
CAROL ANN HERBST, County Clerk
Hutchinson County, Texas
Deputy _____

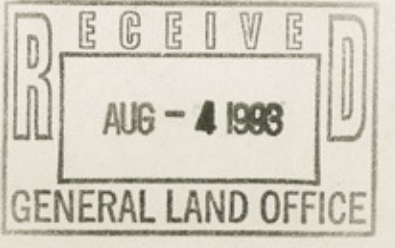
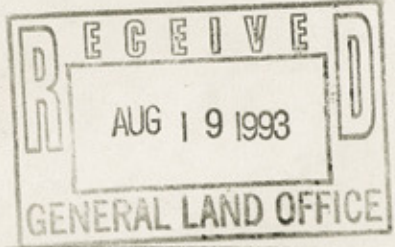


STATE OF TEXAS
COUNTY OF HUTCHINSON

... filed for record in my office, the ... day of December, 1993.
... of Clerk ... M, and duly recorded the ... day of December
... in book ... of the field note records of Hutchinson County, Texas.



County Clerk



The foregoing instrument is a full, true and correct copy of the original on file in this office in Vol. 9 page 454 of the Field Note Records
Attest: July 29 1993
CAROL ANN HERBST, County Clerk
Hutchinson County, Texas
By Winnell Litterell Deputy

