

"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
 COUNTIES Right Bank of Canadian River
 OF §
 HUTCHINSON AND §
 ROBERTS

See Hutchinson County Rolled Sketch ~~43~~ and Roberts County Rolled Sketch 3

FIELD NOTES of survey of Gradient Boundary along the Right Bank of a portion of the Canadian River made for Morrison Cattle Company by virtue of its Riparian ownership of adjoining H. & T. C.R.R. Co. Surveys 25 through 36 Block 46, Hutchinson and Roberts Counties, 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 about 20 miles N. 78°E. from Stinnett, the County Seat of Hutchinson County and about 29 miles N.58°W. from Miami, the County seat of Roberts County, 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 a fence corner post where existing fence traverses S.0°15'E. along or near the common line between H. & T.C.R.R. Co. Surveys 36 and 37 Block 46 bears S.0°15'E. 2.89 varas and monument marked "REF No. 22" bears S.81°46'16"W. 82.08 varas. Said monument is set on the North side of the Canadian River and has Coordinates on the Texas Coordinate System of 1927 - North Zone of Y=246,114.98 varas and X=759,810.82 varas.

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

L1	N	71°46'38"	E	17.20
L2	S	70°04'09"	E	18.16
L3	N	74°16'13"	E	41.38
L4	N	72°28'46"	E	44.40
L5	N	85°52'19"	E	50.79
L6	N	76°51'03"	E	24.16
L7	N	58°37'26"	E	39.83
L8	N	52°57'50"	E	29.42
L9	N	34°59'21"	E	26.90
L10	N	74°36'42"	E	15.83
L11	N	74°55'06"	E	22.49
L12	N	55°28'27"	E	35.26
L13	N	01°57'38"	E	27.33
L14	N	46°31'12"	E	14.20
L15	N	75°18'23"	E	20.95
L16	N	78°33'28"	E	30.46
L17	N	39°35'21"	E	25.47
L18	N	38°56'07"	E	23.19
L19	N	64°41'19"	E	46.02
L20	N	81°43'53"	E	58.78
L21	N	72°45'10"	E	37.94
L22	N	70°42'13"	E	33.44
L23	N	32°31'28"	E	50.26
L24	N	00°28'06"	W	58.41
L25	N	05°01'25"	E	28.92
L26	N	11°50'25"	E	38.75
L27	N	11°01'00"	E	40.85
L28	N	16°44'26"	E	71.29
L29	N	12°47'19"	E	64.29
L30	N	25°07'18"	E	43.10
L31	N	48°28'00"	E	32.12
L32	N	61°42'05"	E	38.45
L33	N	21°56'41"	E	47.43
L34	N	10°53'53"	W	57.08
L35	N	41°12'45"	E	16.99

File No. Sketch File 7

Roberts

County

Field notes of survey of Gradient Boundary along the right (more southerly) bank of Canadian River made for Morrison Cattle Company by virtue of its riparian ownership of adjoining H. & T. C. R. R. Co., Block 46, surveys 25-36-46 Hutchinson & Roberts Cos.

Date Filed: February 17, 2000

David Dewhurst, Commissioner

By Douglas Howard

FILED
 CAROL ANN HERBST
 COUNTY CLERK

COPY

93 JUL 29 PM 1:24

HUTCHINSON COUNTY, TEXAS
 BY C. Dewhurst DEPUTY

STATE OF TEXAS § Gradient Boundary
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L36	N	79°29'28"	E	22.81
L37	S	84°29'16"	E	25.88
L38	N	72°50'14"	E	42.18
L39	N	25°14'14"	E	52.77
L40	N	25°43'10"	E	53.86
L41	N	10°36'30"	E	52.47
L42	N	12°16'05"	E	78.33
L43	N	10°35'31"	E	41.55
L44	N	35°22'22"	E	43.50
L45	N	45°00'43"	E	21.24
L46	N	52°04'10"	E	18.57
L47	N	64°06'22"	E	60.76
L48	N	58°47'34"	E	46.97
L49	N	34°51'21"	E	86.00
L50	N	21°08'49"	E	54.04
L51	N	08°37'25"	W	47.85
L52	N	16°15'38"	W	43.82
L53	N	21°22'31"	E	40.97
L54	N	13°51'55"	E	30.38
L55	N	01°06'16"	E	63.96
L56	N	37°18'12"	W	25.88
L57	N	04°20'51"	W	27.02
L58	N	02°09'24"	E	17.17
L59	N	14°47'46"	E	34.85
L60	N	31°30'16"	E	38.58
L61	N	04°18'27"	E	29.67
L62	N	14°39'47"	E	41.88
L63	N	01°00'12"	W	47.04
L64	N	39°16'09"	W	50.44
L65	N	02°03'24"	E	13.66
L66	N	30°39'55"	E	13.21
L67	N	32°07'26"	E	17.15
L68	N	18°09'28"	E	60.09
L69	N	19°36'17"	E	56.86
L70	N	33°28'50"	E	99.23
L71	N	15°42'51"	E	68.31
L72	N	01°12'42"	W	69.39
L73	N	05°52'44"	E	30.43
L74	N	11°38'33"	E	18.64
L75	N	75°33'07"	E	28.95
L76	S	80°30'03"	E	23.73
L77	N	77°57'30"	E	92.66
L78	N	44°05'45"	E	49.82
L79	N	06°33'19"	W	52.79
L80	N	47°48'16"	W	54.20
L81	N	17°55'51"	E	27.09
L82	N	50°16'27"	E	21.42
L83	N	83°02'17"	E	78.68
L84	N	23°53'16"	E	54.61
L85	N	10°07'14"	E	56.94
L86	N	51°32'52"	W	48.24
L87	N	29°09'11"	E	16.56
L88	S	84°46'58"	E	18.88
L89	S	82°24'19"	E	23.09
L90	N	46°45'36"	E	31.03
L91	N	23°52'57"	E	45.69
L92	N	11°06'29"	W	62.36
L93	N	52°35'43"	W	39.27
L94	N	09°50'42"	W	20.97
L95	N	59°33'58"	E	11.93
L96	N	73°29'04"	E	37.40

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L97	N	63°57'08"	E	61.78
L98	N	35°44'40"	E	68.65
L99	N	32°53'16"	E	45.28
L100	N	19°28'45"	E	39.97
L101	N	30°28'50"	W	61.58
L102	N	12°08'36"	E	26.50
L103	N	29°52'24"	E	26.36
L104	S	84°11'18"	E	71.54
L105	N	81°43'43"	E	25.55
L106	N	65°46'37"	E	77.28
L107	N	52°24'11"	E	123.47
L108	N	78°52'57"	E	60.28
L109	N	65°53'01"	E	46.73
L110	N	26°11'19"	E	95.17
L111	N	58°06'32"	E	76.47
L112	N	54°52'32"	E	66.43
L113	N	36°14'56"	E	55.33
L114	N	13°16'49"	E	44.45
L115	N	23°26'24"	W	37.04
L116	N	48°31'58"	E	53.52
L117	N	56°58'20"	E	67.37
L118	N	41°28'17"	E	78.22
L119	N	36°02'51"	E	124.38
L120	N	22°49'39"	E	82.85
L121	N	38°43'36"	E	31.53
L122	N	52°52'39"	E	50.20
L123	N	59°52'35"	E	95.20
L124	N	86°58'25"	E	47.90
L125	N	75°25'13"	E	31.08
L126	N	72°08'37"	E	86.97
L127	N	59°46'38"	E	76.48
L128	N	61°21'13"	E	34.47
L129	N	58°16'45"	E	58.74
L130	N	28°41'10"	E	52.26
L131	N	05°29'44"	E	35.72
L132	N	06°45'14"	E	20.45
L133	N	36°27'47"	E	51.01
L134	N	46°29'30"	E	69.79
L135	N	59°32'06"	E	119.39
L136	N	72°36'28"	E	84.67
L137	N	81°24'00"	E	62.68
L138	N	65°35'34"	E	56.53
L139	N	59°59'24"	E	43.81
L140	N	63°19'51"	E	47.21
L141	N	60°07'32"	E	157.09
L142	N	27°39'00"	E	46.73
L143	N	27°02'38"	E	51.46
L144	N	22°28'47"	E	55.49
L145	N	31°34'31"	E	30.88
L146	N	41°09'25"	E	61.87
L147	N	66°22'04"	E	53.39
L148	N	55°39'56"	E	33.51
L149	S	87°45'57"	E	18.06
L150	N	59°45'46"	E	18.76
L151	N	49°38'27"	E	55.61
L152	N	54°03'37"	E	136.47

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to a point where monument marked "REF No. 8" bears N.38°34'58"W. 19.61 varas. Said monument has Coordinates on the Texas Coordinate System of 1927 - North Zone of Y=250,918.51 varas and X=763,867.77 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).

L153	N 48°24'39"	E	96.58
L154	N 71°10'33"	E	49.89
L155	N 85°57'04"	E	22.37
L156	N 82°27'28"	E	38.32
L157	N 29°04'37"	E	61.28
L158	N 62°14'48"	E	17.22
L159	N 71°31'10"	E	41.34
L160	N 50°32'59"	E	89.61
L161	N 60°56'27"	E	85.33
L162	N 79°45'53"	E	79.41
L163	N 89°31'35"	E	159.00
L164	N 67°26'04"	E	94.58
L165	S 68°14'40"	E	31.83
L166	S 88°31'10"	E	27.46
L167	N 88°56'02"	E	46.32
L168	S 82°03'55"	E	70.78
L169	N 73°38'04"	E	61.72
L170	N 45°31'56"	E	38.03
L171	N 24°52'02"	E	73.94
L172	N 05°58'51"	E	45.42
L173	N 28°44'27"	E	27.31
L174	N 46°39'42"	E	40.29
L175	N 27°34'40"	E	61.57
L176	N 41°46'42"	E	37.30
L177	N 73°30'26"	E	32.03
L178	S 81°59'59"	E	38.36
L179	N 72°56'44"	E	47.89
L180	S 82°57'12"	E	60.76
L181	N 64°49'07"	E	72.02
L182	N 67°36'43"	E	78.22
L183	N 50°23'48"	E	69.48
L184	N 80°49'04"	E	34.05
L185	N 70°18'32"	E	67.20
L186	N 80°36'25"	E	50.41
L187	N 81°52'19"	E	33.16
L188	S 75°57'43"	E	69.59
L189	N 87°27'39"	E	81.60
L190	N 79°51'26"	E	94.76
L191	S 88°28'35"	E	98.85
L192	N 61°48'28"	E	44.34
L193	N 65°37'49"	E	65.80
L194	N 52°56'45"	E	71.79
L195	N 78°44'18"	E	28.55
L196	S 63°59'49"	E	20.85
L197	N 65°34'40"	E	47.04
L198	N 18°26'19"	W	32.42
L199	N 53°42'39"	E	50.99
L200	N 32°42'19"	E	61.22
L201	N 49°25'11"	E	103.13
L202	N 70°41'29"	E	33.86
L203	N 77°36'46"	E	49.89
L204	N 89°07'38"	E	161.15
L205	S 65°41'32"	E	51.43

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L206	S	79°59'29"	E	98.80
L207	N	69°31'12"	E	48.07
L208	N	19°49'11"	E	32.95
L209	N	57°15'00"	E	29.17
L210	N	52°40'48"	E	79.65
L211	N	49°51'17"	E	68.47
L212	N	67°38'21"	E	25.49
L213	S	85°35'38"	E	36.04
L214	N	37°29'25"	E	61.38
L215	N	02°34'21"	E	20.87
L216	N	43°14'18"	E	76.19
L217	N	32°47'33"	E	37.65
L218	N	83°58'57"	E	50.96
L219	S	50°36'30"	E	28.32
L220	N	63°23'07"	E	68.03
L221	N	83°32'19"	E	137.20
L222	N	69°20'44"	E	35.20
L223	S	88°23'27"	E	94.87
L224	N	85°00'29"	E	117.22
L225	N	70°36'30"	E	123.50
L226	N	73°10'28"	E	90.84
L227	N	77°43'36"	E	159.08
L228	S	75°36'48"	E	55.79
L229	S	38°14'14"	E	44.31
L230	N	83°29'49"	E	49.82
L231	N	37°19'49"	E	68.96
L232	N	50°48'42"	E	50.08
L233	N	44°22'53"	E	41.25
L234	N	50°39'32"	E	35.84
L235	N	84°38'33"	E	44.91
L236	N	45°54'35"	E	51.10
L237	N	39°56'15"	E	28.77

to a point where monument marked "REF No. 15" bears S.8°18'36"W. 32.52 varas. Said monument has Coordinates on Texas Coordinate System of 1927 - North Zone of Y=252,512.61 varas and X=768,267.47 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).

L238	S	89°30'58"	E	47.90
L239	N	70°41'54"	E	37.32
L240	N	31°30'26"	E	71.52
L241	N	31°57'13"	E	52.88
L242	N	74°33'39"	E	54.48
L243	N	64°35'01"	E	46.37
L244	N	79°33'42"	E	70.21
L245	S	86°41'33"	E	66.10
L246	S	77°43'41"	E	82.28
L247	S	60°18'39"	E	29.41
L248	S	81°18'30"	E	48.37

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L249	N	69°58'30"	E	51.06
L250	S	83°44'02"	E	34.37
L251	N	74°02'52"	E	28.98
L252	N	50°39'36"	E	34.00
L253	N	34°59'53"	E	34.44
L254	N	61°10'20"	E	75.79
L255	N	40°23'54"	E	33.73
L256	N	33°06'13"	E	97.32
L257	N	14°32'50"	E	55.57
L258	N	43°48'02"	E	91.56
L259	N	40°47'18"	E	107.16
L260	N	63°05'39"	E	42.13
L261	S	60°31'57"	E	52.51
L262	S	36°56'59"	E	104.71
L263	S	65°00'12"	E	33.26
L264	N	88°16'24"	E	90.37
L265	N	89°38'55"	E	127.62
L266	S	78°56'29"	E	83.38
L267	S	79°06'46"	E	92.24
L268	N	80°41'35"	E	77.22
L269	S	44°03'58"	E	52.98
L270	S	40°13'30"	E	26.67
L271	S	69°35'42"	E	18.59
L272	N	70°54'03"	E	43.96
L273	N	89°02'59"	E	74.88
L274	N	78°50'09"	E	42.21
L275	N	53°54'16"	E	35.07
L276	N	59°17'02"	E	64.75
L277	N	55°22'04"	E	43.40
L278	N	88°40'29"	E	56.48
L279	N	68°48'52"	E	32.06
L280	S	77°18'12"	E	40.23
L281	S	48°27'27"	E	75.67
L282	S	57°41'26"	E	66.28
L283	S	69°08'44"	E	37.68
L284	N	76°26'24"	E	24.73
L285	S	64°43'25"	E	31.81
L286	S	87°23'12"	E	41.14
L287	N	85°12'53"	E	81.67
L288	S	78°40'09"	E	28.68
L289	N	86°03'15"	E	115.71
L290	S	79°27'10"	E	49.63
L291	S	62°02'40"	E	116.27
L292	S	39°25'10"	E	36.45
L293	S	19°37'00"	E	64.89
L294	S	52°34'50"	E	21.94
L295	N	76°25'37"	E	26.74
L296	S	39°20'02"	E	70.54
L297	S	72°28'26"	E	43.75
L298	N	70°07'32"	E	41.88
L299	S	89°14'09"	E	42.07
L300	N	88°50'41"	E	81.66

to a point for the end of this portion of said Gradient Boundary where fence corner post from which 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

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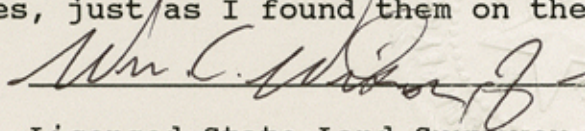
"REF No. 18" set in said fence bears S.2°33'19"E. 707.69 varas. Said monument has Coordinates on the Texas Coordinate System of 1927 - North Zone of Y=251,983.28 varas and X=771,353.83 varas.

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 ____ 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

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

County Clerk

ROBERTS
HUTCHINSON AND
OK
COUNTIES
STATE OF TEXAS
Graduate Boundary
River

1933 - North-South of Y=991,983.38 areas and X=511,951.83 areas. Field monument has coordinates on the Texas Coordinate System of MERK NO. 181 sec in said fence bears S 71° 31' 19" E 200.40 VARIES.

CONTRIBUTOR: H.C.S. (H.C.S. & S.S. 1) RELOCATION PRECISION BEE BOUNDARY
FIELD SURVEY INSTRUMENT: Wm. C. Wilson, Jr. A. K. Wilson Monument
the Texas coordinate system of 1933 - North-South
Elevation: 60.9996969 (271.25 ROBERTS NORTH
Area: Area Angle = 40.16173", Geoid Elevation = 0.00000015;
ROBERTS NORTH BEEB, A=215,515.44 (Area), X=500,001.13;
POB, MOORE, ROBERTS NORTH BEEB, DATA FOR RELOCATION

RECORDED: September 8 to October 25, 1993.
Gerald Monahan, Ronald Johnson

Wm. C. Wilson, Jr., licensed State Land Surveyor of the Green
County, Texas do hereby certify that the foregoing survey was made
by me on the ground according to law, and on the same with the
field survey performed, surveyed, duly qualified, and in the
presence of the jury and certified with the marks of the
and official, and truly and correctly described the same in
the foregoing field notes, just as I found them to be in
and official, and truly and correctly described the same in
the foregoing field notes, just as I found them to be in



RECEIVED
AUG 19 1993
GENERAL LAND OFFICE

RECEIVED
AUG - 4 1993
GENERAL LAND OFFICE

The Foregoing instrument is a full, true and correct
copy of the original on file in this office in Vol. 9
page 451, of the Field Note Records
Attest: July 29 1993
CAROL ANN HERBST, County Clerk
Hutchinson County, Texas
By: Carol Ann Herbst Deputy

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 7
of the *Field Note* 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: Johann Morgenstern