

File No. 2004-08-2435A

PIPER SURVEYING CO.

Complete Surveying Services For The Permian Basin

J. Stan Piper, Owner
L.S.L.S. Tx., P.L.S. Tx., N.M.
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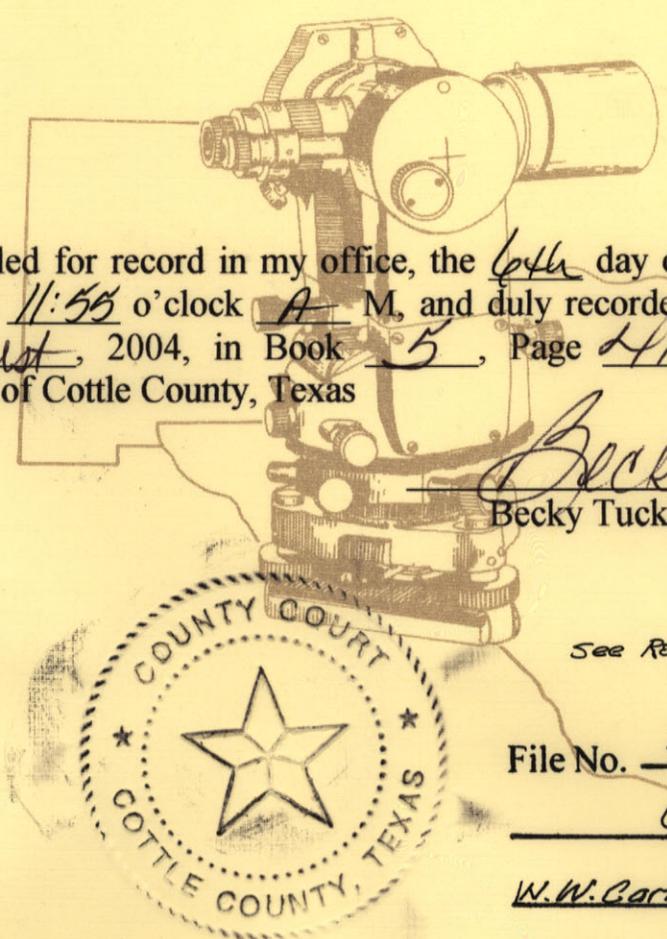
Post Office Box 60432
Midland, Texas 79711
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Surveyor Report on Retracement Survey of W. W. Carter, Abstract 1110, Cottle County, Texas

J. Stan Piper
Registered Professional Land Surveyor
Licensed State Land Surveyor

Filed for record in my office, the 6th day of August
2004, at 11:55 o'clock A M, and duly recorded the 6th day of
August, 2004, in Book 5, Page 416 of the Field Note
Records of Cottle County, Texas

Becky J. Tucker
Becky Tucker, Cottle County, Clerk



See Rolled sketch 15

File No. Sketch File 18
Cottle County

W.W. Carter, A-1110, Fan. P-4166

Date Filed: Sept. 3, 2004

Jerry Patterson, Commissioner

By Dougene Howard

PLAT- SEE COTTLE CO. RLQ SK. 15

SKETCH (counter # 82144)
filed in oversize (25.A.)

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June 15, 2004

Honorable Jerry Patterson
Land Commissioner of Texas
General Land Office
Stephen F. Austin Bldg., 1700 North Congress Avenue
Austin, Texas 78701-1495

Attention: C. Ben Thomson, Director of Surveying

Re: Surveyor Report on Retracement Survey of W. W. Carter Survey, Abstract 1110, Cottle County, Texas

Dear Mr. Thomson:

INTRODUCTION

The general location of this project is in the northeast part of Cottle County, on the north side of the Pease River, on the waters of South Goosebeck Creek. The center of the survey is some 23.5 miles N39°E of Paducah, the county seat of Cottle County, Texas. The farming community is known as the Tennessee Valley. It is some 2 miles south of the Cottle and Childress County Line and 2 ½ miles west of the Cottle and Hardeman County Line.

RECORDS RESEARCHED

The records researched included the General Land Office records and the Cottle County survey, abstract, and deed records. A working sketch of the patented and corrected field notes was prepared covering the area and adjacent surveys. A copy of this working sketch is supplied with this report for your use.

HISTORY OF THE ORIGINAL SURVEYS

The first survey in our area of interest located to the north and west was Block "H" Waco and Northwestern Railroad Company Survey in June of 1873. Corrected field notes were prepared by Mr. George Spiller in April of 1888, which the odd numbered and many of the even numbered surveys in our area of interest are patented on his notes. In Mr. Spillers survey he calls for passing calls and set stones at several survey corners including the northwest and southeast corners of Section 416 of said block. Mr. W. O. Jones, Jr., in his subdivision survey of the

Cottle Co. Sketch File 18

COUNTER 82131

southeast quarter of Section 416, July 15, 1938, calls to begin at a set stone in the center of road the southeast corner of said section.

The second group of surveys in our area located to the west and south was originally surveyed by E. P. Earle in January and May of 1874. This included the Anthony Jones Survey of 1280 Acres, G. F. Bridgeman Survey and four B. B. B. & C. Railroad Company Surveys. Few, if any, tangible monuments are called for in these field notes. They call to begin at corners of the Block "H" and appear to be only tacked or extended to Block "H" location. Mr. Earle's calls to pass the southeast corner of Survey 446 at 77 varas on the North boundary line of said G.F. Bridgeman Survey. This passing call could increase the east and west distances of these surveys if excess exist in Block "H".

E. P. Earle also surveyed the third group of surveys in our area of interest located to the south in June of 1874. They include the Columbus Tap Railroad Company Surveys 1 through 22. These notes call for some monuments and passing calls. They also include several distance calls to the corners in Block "H", even when adjacent surveys of his January and May surveys existed. It appears that he attempted to extend the lines of Block H southerly to locate these surveys.

The fourth group of surveys in our area of interest is the H. Vandervorker Survey of one section and the Abner L. Clements Survey of two thirds of a league and a labor. Both call to begin 3800 varas east of the southeast corner the Anthony Jones Survey, an unmarked corner. No passing calls, witnesses, or tangible monuments are included, even where the Clements Survey crosses the Pease River. These surveys are located in the south and east part of our area of interest.

The fifth survey in our area of interest is the S. N. Jones Survey of 80 acres by T. J. Crews in July of 1890. It calls to begin 2191 varas south and 407 $\frac{1}{4}$ varas east of the Southeast corner of Section 416, Block H, which Spiller had monumented with a set stone in 1888 according to his corrected field notes. T. J. Crews calls for monuments at each of his corners.

The sixth survey in our area of interest is the W. W. Hall survey, which is adjacent to the north boundary line of the said W. W. Carter Survey. Mr. G. W. Darby surveyed the said Hall Survey in October 28, 1890 to contain 160 acres, which was corrected to 158 acres. He calls to begin and adjoin the S. N. Jones Survey. He also calls to adjoin Sections 2 and 4, G. C. & S. F. RR. Co. Survey and the J. C. Lemons 160 acre tract. At each of the six corners, he calls for a rock without any witnesses or markings.

The seventh group of surveys in our area interest includes the W. W. Carter Survey. It encompasses approximately 20 pre-emption survey by E. T. Flynt on various dates from April through October of 1891. It is interesting that he shows 10 different chain carriers of which each was a homesteader for which Mr. Flynt conducted a survey for during this period. It appears that he located or began the surveys from the set stone at the southeast corner of Section 416, Block "H" which Mr. Spiller had monumented in 1888. He calls for a stone at most of his corners, passing calls for several creeks and roads, and witness trees at several corners. He also calls to adjoin several Block "H" sections, G. F. Bridgeman Survey, Anthony Jones Survey, H. Vandervorker Survey, and the W. W. Hall Survey. It appears from his field notes that he established the location of the G. F. Bridgeman Survey, Anthony Jones Survey, and the H. Vandervorker Survey based on their record calls relative to the southeast corner of said Section 416.

The eighth survey in our area of interest is the J. C. Lemons Survey of 160 Acres by A. A. Neff in April of 1893. Mr. Lemmon had a claim on this tract prior to October 28, 1890, which Mr. Darby, in the field notes of the S. N. Jones Survey called, to adjoin. The distances called along the north sides (428 and 642 varas) and the south line (1050 varas) when added differ by 20 varas. In the field notes the west and east lines called distances agrees at 835 varas. When the north distances are added together it totals 1070 varas and multiplied by 835 varas an area of 158.3 acres is calculated. According to the warranty deeds since 1922 (*Hattie Lemons to Z. J. Pelly Volume 34, Page 323 Deed Records of Cottle County, Texas.*) this survey contains 181.9 acres. No addition description is included and no resurvey could be found of record.

SURVEYING ON THE GROUND

This survey was performed utilizing real time kinematics and the Global Positioning System based on the published coordinates of U. S. C. & G. S. station "SOMMER" in NAD 1983/93. Collecting and submitting two GPS rinex files to the NGS OPUS processor for reduction checked this location. The processed values checked within 4 centimeters to the published horizontal value. This survey is reported in bearings, distances, and coordinates based on State Plane Coordinates System, 1983 NAD, North Central Zone in varas values. Most of the stones called by E. T. Flynt have been destroyed or obliterated by public roads. One stone was found at the southwest corner of the L. C. Brown Survey, at a very old fence corner, and Mr. Spiller's set stone position was re-established at the southeast corner of Section 416, Block "H". I also set spikes or nails at the intersection of public roads or fence lines with center of public roads and checked the relative location of the occupied boundaries to the constructed boundaries on this survey. These fences and roads appear to have been constructed shortly after the original pre-emption surveys by the original homesteaders, which, in this case, were the chain carriers on the survey. See accompanying map for the relative locations. A coordinate list is attached for all the points found, set, calculated, and tied for your use.

ESTABLISHMENT OF MERIDIAN

The inverse bearing and distance from the stone at the southwest corner of the L. C. Brown Survey to the northeast corner of the J. C. Winston Survey located 159.8 varas east of southeast corner of Section 416, as called by W. O. Jones in survey of Mrs. R. A. Harbison Survey on December 6, 1927, in the center of a graded road intersection is $N17^{\circ}18'55''E$ and a distance of 6218.94 varas. Utilizing the called distance of 1587 varas easterly from the southwest corner of the L. C. Brown Survey to establish the meridian yields a grid meridian is a grid bearing of $N2^{\circ}31'50''E$ or a true bearing of $N1^{\circ}40'48''E$ based on a meridian through station "SOMMER" (theta angle = $-0^{\circ}51'02''$). The bearing shown on Roll Sketch 13 along the east line of Anthony Jones Survey and the adjacent Block "H" sections is $S3^{\circ}04'26''W$ or $N3^{\circ}04'26''E$ reversed based on 1927 NAD State Plane Coordinate System, North Central Zone. This bearing rotated to 1983 NAD North Central Zone by the Corpswin program developed by the U. S. Corp of Engineers is $N2^{\circ}31'43''E$ or within $0^{\circ}00'07''E$ of the meridian as established above. The meridian established in this manner would result in a line described by E. T. Flynt as $N2^{\circ}W$ on the east boundary line of the W. C. Dillard or the west boundary line of the W. W. Hall Survey being a grid bearing of $N0^{\circ}31'50''E$ and a true bearing of $N0^{\circ}19'12''W$. The north boundary line of the W. W. Hall Survey, which is called by Flynt as being common with a south boundary line of W. R. Culpepper Survey as $N86^{\circ}56'E$ would be a true bearing of $N88^{\circ}36'48''E$.

CONSTRUCTION OF SURVEY BOUNDARIES

The H. Vandervorker Survey and Abner Clements Survey are occupied and have been surveyed with the northwest corner of the Vandervorker Survey being located 2 miles or 3800 varas south of the southeast corner of said Section 416. The original field notes call the southwest corner to be 3800 varas east of the southeast corner of the Anthony Jones Survey an unmarked corner. The difference in these locations is that the occupied and surveyed location is 54.7 varas east and 9.8 varas north of its theoretical field note location. Primarily this is because of the excess found in Block "H" between the Anthony Jones Survey and Section 416, Block H as located by Spiller. I believe the E. T. Flynt survey was the first to locate the H. Vandervorker Survey to the ground and that these lines have been accepted by the community and not been in questioned for 113 years. All of the adjacent surveys have been patented based on this position with deeds and occupations lines all in excess of 50 years based on this position. At this late date, to attempt to move the said surveys to their theoretical position would not benefit anyone and only cause problems.

The north and south distances between the stone at the southwest corner of said L. C. Brown Survey and the northeast corner of the J. T. Wilson Survey used to establish the meridian is 6013.03 varas. The calls of the pre-emption surveys add to 6016 varas or 2.97 varas greater than found distance. The shortage was disturbed equally by proration, through this system of surveys. The pre-emption surveys, located based on the above meridian with the prorated distances north and south and called distances east and west conform, closely to the occupied public roads and ancient fence lines.

The location of the J. C. Lemon Survey is based on the beginning call for the southwest corner of the S. N. Jones Survey and the call for the H. Vandervorker Survey at its southwest corner. This extended its north to south distances from its called 835 varas to 931.13 varas. The east boundary line is located 1070 varas easterly from the northwest of the H. Vandervorker Survey. The northeast corner calls to be in the south boundary line of the said Jones Survey and could not be extended to reach its southeast corner. This construction encloses 176.48 acres and leaves a 2.39 acre un-patented/vacant strip adjacent to its east boundary line.

When the W. M. Hall Survey was surveyed on the ground in October 1890, the probability of the rocks called in its field notes being found the following year by Mr. Flynt in his survey is likely. It is also a possibility that the chain carriers, which were local, knew the location of the Hall Survey. E. T. Flynt and G. W. Darby were both Hardeman Land District Surveyors and could have shared information on the location of the Hall Survey. The bearings called by Flynt on the lines called to be adjacent to the Hall Survey suggest that the Hall Survey may have been surveyed on a different declination than the adjacent surveys. The south and west line of the said Hall Survey as located by E. T. Flynt are at a right angle to each other and within 20 minutes of the cardinal directions as called in the Hall Survey. It appears that E. T. Flynt made a valid attempt to locate the Hall Survey as located on the ground during his survey. The alternative of his location at this late date is to locate it by its field note calls from the Jones survey as shown on the survey map. The solution to the Hall Survey construction is not essential for this survey, since it is not in conflict with the W. W. Carter Survey based on either construction. I believe that E. T. Flynt's construction is the correct construction based on the time and conditions when he performed it. It also conforms the ancient fence lines and public roads, which are recognized as its boundaries and encloses approximately the correct acreage.

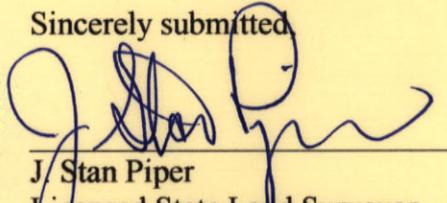
All of the adjacent pre-emption surveys of the W. W. Carter Survey by E. T. Flynt are patented on his original notes in 1893 through 1895. A notation was added on the back of the field notes of the W. W. Carter Survey "*Conflict with P4083 63 varas*" by C. W. Tate on June 28, 1893. On May 22, 1904 Hawkins added an additional note "*According to length of S. line of W. M. Hall preemption as shown in its patented f. n. the width of vacancy between the Lemons and J. J. Thomas ptd. Pre-emption this f.n. is supposed to cover is 802 varas while according to calls herein same is 781 varas. This survey also appears to conflict with said W. M. Hall, P 4083 ptd, to the extent of 63 varas. Correction Required.*" The erroneous assumptions made by Tate and Hawkins were (1) that the distance along the west boundary line of the J. C. Lemon Survey was correct, and (2) that the Hall Survey correctly reported it westerly south boundary line to the northwest corner of the Lemon Survey. The Lemon Survey is excessive by 96.13 varas in the north and south distances between the Jones Survey and the H. Vandervorker Survey. There is no conflict with P. 4083 in fact a possible vacancy could exist. From the inside corner of the J. J. Thomas Survey common to the southwest corner of W. M. Hall Survey a distance of 52 varas is called east to the northwest corner of the W. W. Carter Survey plus a distance of 781 varas on the north line of the Carter Survey adds to 833 varas which the Hall Survey calls to be 854 varas.

The location of the W. W. Carter Survey is validated by the ancient fence line along the east boundary within 2 varas the entire distance and the graded county roads on the south, west, and north sides corroborate its location within a few varas.

CONCLUSION

I have performed a very careful and diligent survey, based on careful research, making a complete search for the footsteps of the locative surveyors in this area. These footsteps were tied into the State Plane Coordinate System, with the best methods feasible. I studied the intent of the parties, which located surveys, the history of the each survey, and derived a construction that is logical, equitable, and legal. I have prepared a working sketch, a survey map, and this report showing the results of this survey. I hope this report and survey will meet with your approval. If you have any questions please, contact me.

Sincerely submitted



J Stan Piper
Licensed State Land Surveyor
Registered Professional Land Surveyor No. 1974
P.O. Box 60432
Midland, Texas 79711-0432

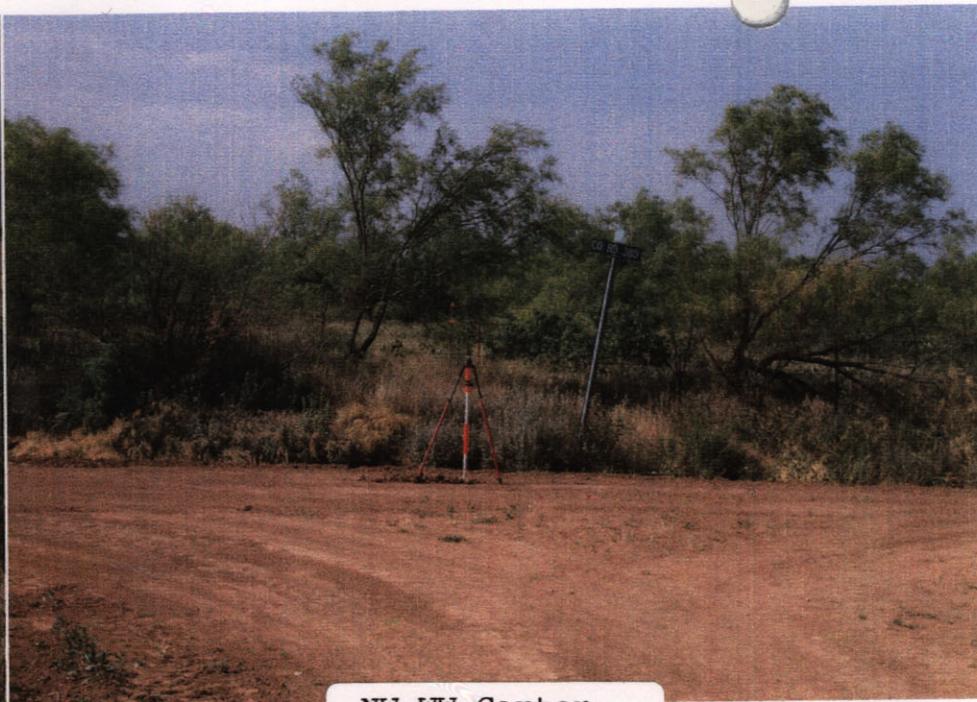
Attachments:

- (1) Exhibit "A", Accompanying Survey Map
- (2) Exhibit "B", Photograph of Monuments,
- (3) Exhibit "C", Accompanying Working Patented Field Notes Sketch
- (4) Coordinate List in Texas State Plane Coordinates 1983/93 North Central Zone in Varas Values

COTTLE CO. SKETCH FILE 18



SE Corner 446
Looking East

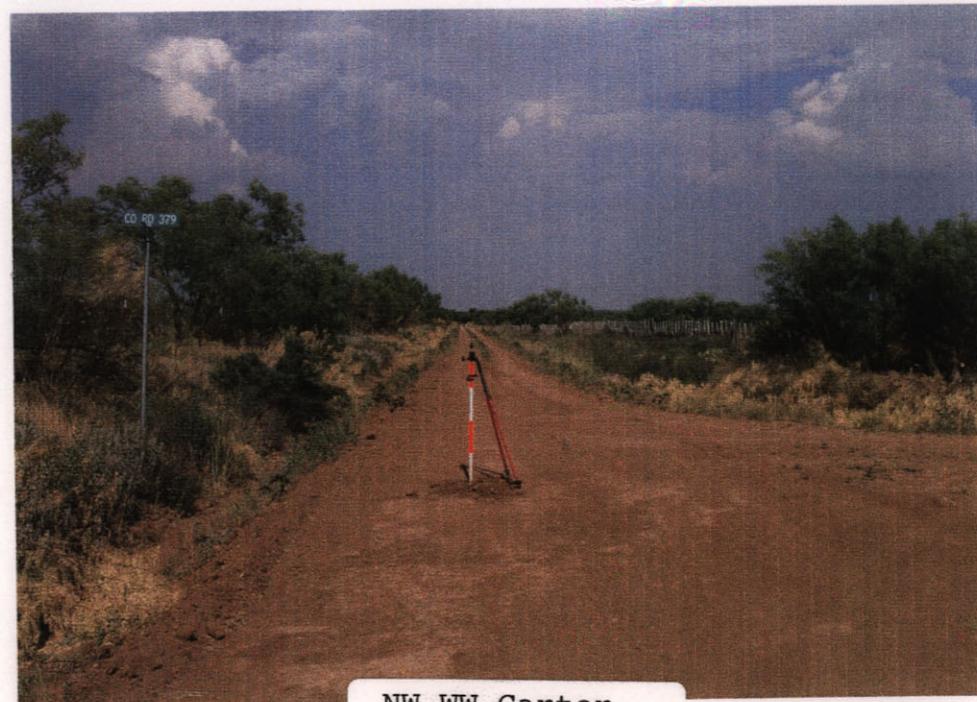


NW WW Carter
Looking North

PIPER SURVEYING COMPANY
P.O. BOX 60432
MIDLAND, TEXAS 79711
550-7810

EXHIBIT "B"
Photograph of Monuments

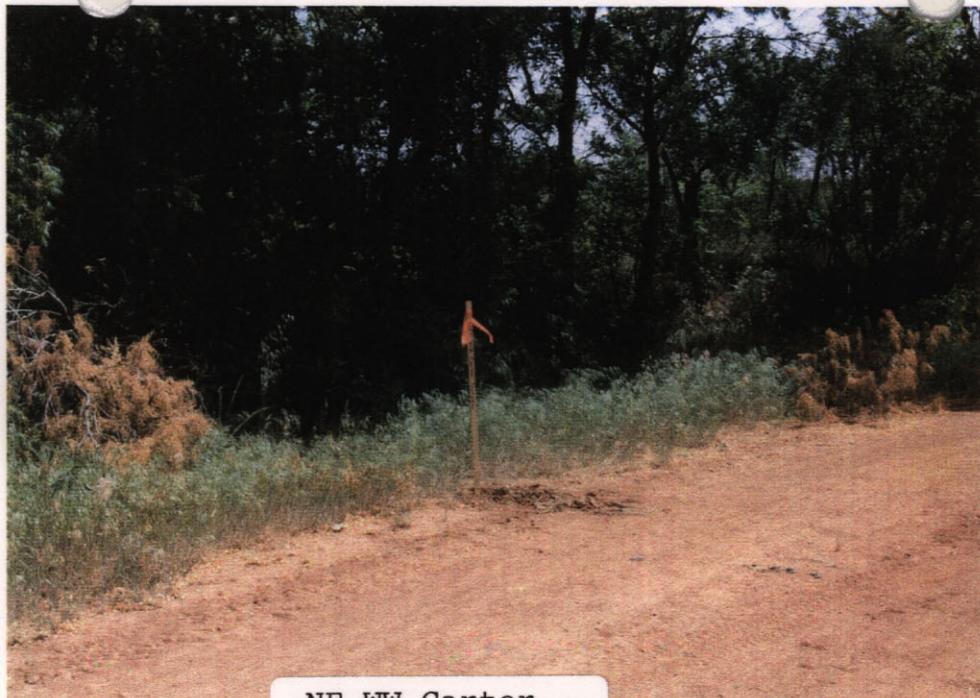
Page 1 of 2



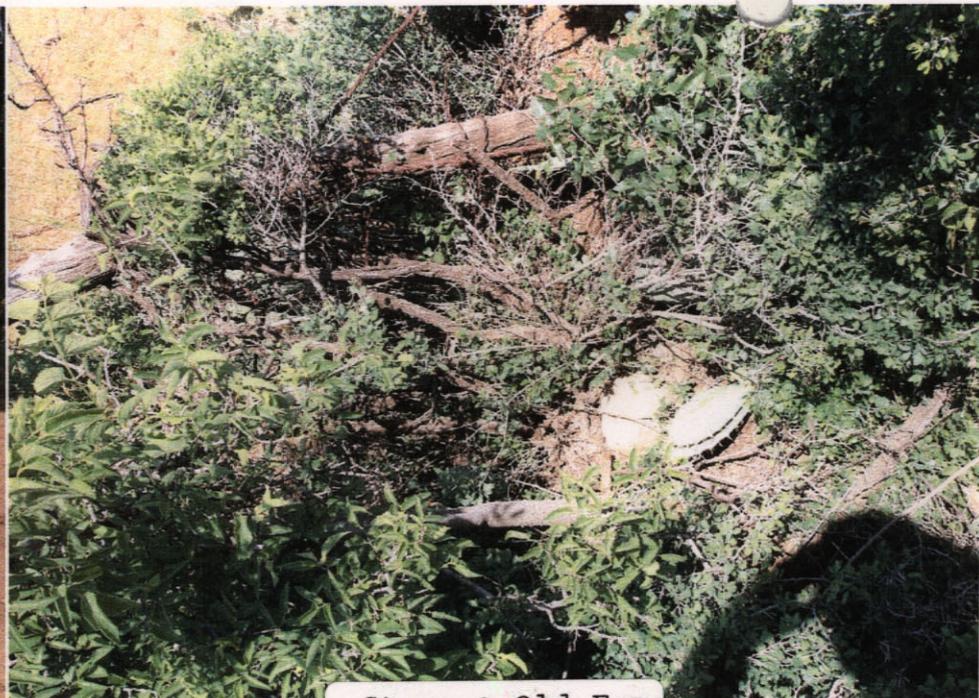
NW WW Carter
Looking East

COUNTER 82439

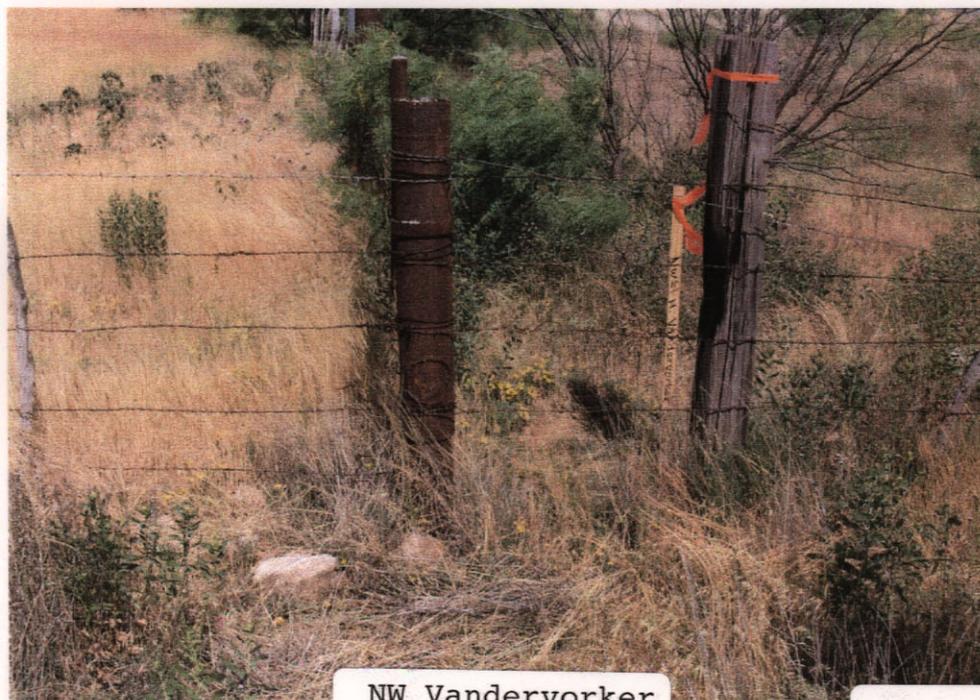
COTILE CO. SKETCH FILE 18



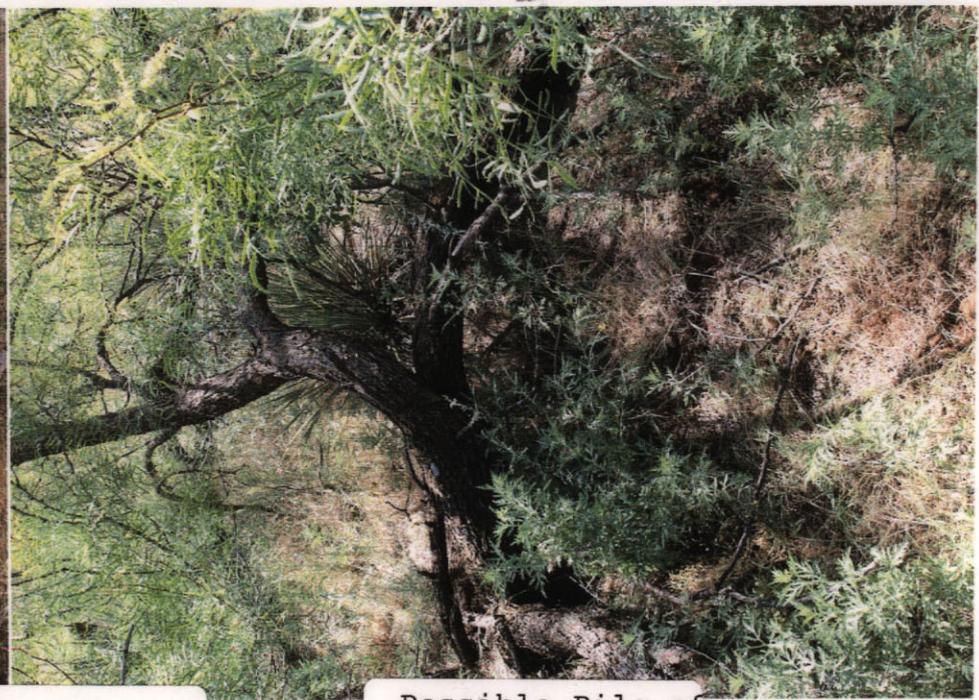
NE WW Carter
Looking South



Stone & Old Fence
Corner SW Brown



NW Vandervorker
Looking East



Possible Pile of
Stones not accep

Exhibit "B" 2/2

COUNTER 82940

Point	Northing	Easting	Elevation	Description
1	2,703,231.785	539,010.554	1,706.500	Base point
2	2,703,456.021	538,885.965	1,674.877	pk@cl104 sw math
3	2,703,320.933	538,879.759	1,687.720	pk@cl104 se harw
4	2,704,407.156	538,929.837	1,665.272	cl104s & co rd e
5	2,706,711.486	539,102.901	1,686.040	cl int 104&1033
6	2,706,139.000	539,077.958	1,666.694	pk@cl104 nw thom
7	2,705,140.910	539,034.760	1,663.950	pk@cl104 se brid
8	2,704,386.486	539,400.442	1,663.069	spk@rd nw brown
9	2,704,355.636	540,048.245	1,640.635	spk@rd ne brown
10	2,703,708.874	540,019.934	1,659.643	spk@rd sw baker
11	2,702,989.521	539,340.084	1,675.675	stn@fnc cor sw
12	2,703,673.246	540,802.515	1,677.756	spk@rd se baker
13	2,703,242.338	540,781.644	1,677.814	spk@rd sw vander
14	2,702,515.869	540,746.987	1,694.014	Zip&cnc 6's fcc
15	2,703,151.198	542,668.736	1,650.402	spk@rd se vander
16	2,705,140.845	540,861.028	1,640.192	rm 1.4n fcc nw v
17	2,704,869.426	540,069.901	1,639.122	60d@rd sw carter
18	2,706,006.706	540,120.297	1,654.331	spk@rd nw carter
19	2,705,999.416	540,876.274	1,632.120	pt cl road nl ca
20	2,705,950.503	540,899.522	1,636.530	pt@fnc ebl carte
21	2,706,058.492	541,345.078	1,637.337	spk rd_n&fnc_e
22	2,706,728.812	541,370.986	1,651.405	pk@cl104 nw jone
23	2,706,727.242	541,091.988	1,649.133	pk@cl104 se culp
24	2,706,718.997	540,077.191	1,655.027	pk@cl104 ene dil
25	2,708,053.284	541,151.306	1,694.288	spk@road int
26	2,708,926.617	541,191.049	1,690.343	spk@road int
27	2,708,933.502	541,031.325	1,698.978	spk@road int
28	2,709,882.648	541,073.178	1,699.259	60d nai@road
29	2,709,017.935	539,130.756	1,685.871	pk@cl1033& co rd
30	2,708,145.327	539,090.673	1,685.870	pk@cl1033& co rd
31	2,707,111.612	539,043.255	1,689.352	spk in co rd
32	2,703,303.214	539,353.937	7.500	pol
33	2,703,315.194	538,879.037	0.000	SE SB HARWELL
34	2,703,409.838	536,981.365	0.000	sw pv tanner sur
35	2,705,383.787	535,103.307	0.000	ne 478 blk h
36	2,707,286.620	535,187.338	0.000	ne 477 blk h
37	2,709,188.950	535,271.347	0.000	ne476 blk h
38	2,708,972.138	540,161.054	0.000	nw winston surve
39	2,709,017.659	539,131.059	0.000	nw thos carter s
40	2,708,142.943	539,092.401	0.000	nw je macon
41	2,707,268.226	539,053.742	0.000	sw je mason surv
42	2,707,116.172	539,047.022	0.000	INSIDE COR DILLR
43	2,707,112.774	539,123.948	0.000	INSIDE COR DILLR
44	2,706,137.482	539,080.844	0.000	sw wc dillard su
45	2,705,269.757	539,042.495	0.000	sw jj thomas
46	2,705,137.702	539,036.659	0.000	SE BRIDGE
47	2,704,405.028	539,004.278	0.000	sw lj vansant su
48	2,704,408.427	538,927.353	0.000	nw fred mathison
49	2,703,459.817	538,885.429	0.000	sw fred mathison
50	2,703,438.846	539,359.942	0.000	nne wp grogan su
51	2,704,387.456	539,401.866	0.000	ne fred mathison
52	2,702,961.043	539,984.457	0.000	ene wp grogan su
53	2,704,358.978	540,046.239	0.000	ne lc brown surv
54	2,703,708.934	540,017.510	0.000	sw jf raser surv
55	2,705,223.707	540,084.456	0.000	se jj thomas sur
56	2,703,674.495	540,796.750	0.000	se jf raser surv

Point	Northing	Easting	Elevation	Description
57	2,702,517.990	540,745.638	0.000	se john baker su
58	2,704,830.795	540,847.853	0.000	ne jf raser surv
59	2,704,865.234	540,068.613	0.000	nw jf raser surv
60	2,705,139.342	540,861.490	0.000	nw h vandervorke
61	2,706,001.327	540,899.585	0.000	ne ww carter sur
62	2,706,008.554	540,119.142	0.000	nw ww carter sur
63	2,708,051.901	541,152.391	0.000	se jt winton sur
64	2,707,177.184	541,113.732	0.000	se jas d winston
65	2,706,724.850	541,093.741	0.000	se culpepper sur
66	2,707,258.424	539,275.527	0.000	nw wr culpepper
67	2,706,753.168	539,253.197	0.000	sw wr culpepper
68	2,706,716.742	540,077.394	0.000	ne wc dillard su
69	2,706,093.694	540,071.624	0.000	se wc dillard su
70	2,706,009.002	540,070.840	0.000	inside corner th
71	2,708,879.776	542,540.266	1,649.114	60D@CLRD NE HARB
72	2,706,695.795	542,442.415	1,653.133	PK@CL104 EBL HAR
73	2,706,092.723	540,069.428	1,659.343	60D@FNC &CORD W
74	2,704,788.769	542,750.913	1,624.052	END ABANDON FNC
75	2,704,981.624	542,333.859	1,627.766	USCGS BM Z436
76	2,705,149.754	542,368.816	1,631.222	6'N FNC COR
77	2,705,092.216	541,975.778	1,635.687	FNC COR W&N
78	2,704,830.788	540,847.845	1,627.139	5/8IR&2AC SE COR
79	2,704,865.228	540,068.621	1,639.046	5/8IR&2AC SW CAR
80	2,706,008.544	540,119.128	1,653.695	5/8IR&2AC NW CAR
81	2,706,001.299	540,899.574	1,630.445	5/8IR&2AC NE CAR
82	2,705,139.359	540,861.475	1,640.400	5/8IR&AC E1&S3FC
83	2,708,933.673	541,031.405	1,690.343	POS STN SE416 BH
84	2,708,933.718	541,031.469	1,698.738	5/8IR&2AW@RD INT
85	2,706,743.810	540,934.623	1,690.343	PI
86	2,706,725.829	541,341.476	1,690.343	CALC NW SN JONES
87	2,706,696.027	542,015.818	1,690.343	CALC NE SN JONES
88	2,706,021.685	541,986.015	1,690.343	CALC SE SN JONES
89	2,706,051.487	541,311.673	1,690.343	CALC SE SN JONES
90	2,706,782.212	540,065.722	1,690.343	CALC NW WM HALL
91	2,706,072.905	540,034.374	1,690.343	CALC SW WM HALL
92	2,706,035.199	540,887.540	1,690.343	CALC SSE WM HALL
93	2,706,070.164	540,889.086	1,690.343	CALC L C WM HALL
94	2,705,072.784	542,367.491	0.000	SE RA HARBISON
95	2,705,091.460	541,944.903	0.000	SSW RA HARBISON
96	2,705,055.453	542,759.638	0.000	NE H VANDERVORKE
97	2,703,157.305	542,675.748	0.000	SE H VANDERVORKE
98	2,703,241.194	540,777.601	0.000	SW H VANDERVORKE
99	2,705,092.099	541,930.445	0.000	SE JC LEMONS
100	2,706,022.324	541,971.557	0.000	NE JC LEMONS
101	2,706,069.567	540,902.601	0.000	NW JC LEMONS
102	2,709,524.912	527,663.621	0.000	NE546 THOMSON MA
103	2,707,622.723	527,575.655	0.000	NE547 THOMSON MA
104	2,709,104.746	537,178.090	0.000	NE447 THOMSON MA
105	2,707,202.416	537,094.081	0.000	SE447 THOMSON MA
106	2,703,401.433	536,926.225	0.000	NE1BBB&C THOMSON
107	2,701,503.282	536,842.400	0.000	SE1BBB&C THOMSON
108	2,701,587.487	534,935.657	0.000	SE1BBB&C THOMSON
109	2,703,485.637	535,019.482	0.000	SE478 THOMSON MA
110	2,706,736.755	541,094.268	0.000	WSW RA HGRBISON
111	2,704,352.946	536,968.245	0.000	NW PV TANNER
112	2,708,066.914	539,089.041	0.000	E/4C SEC 446 H

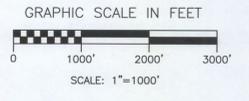
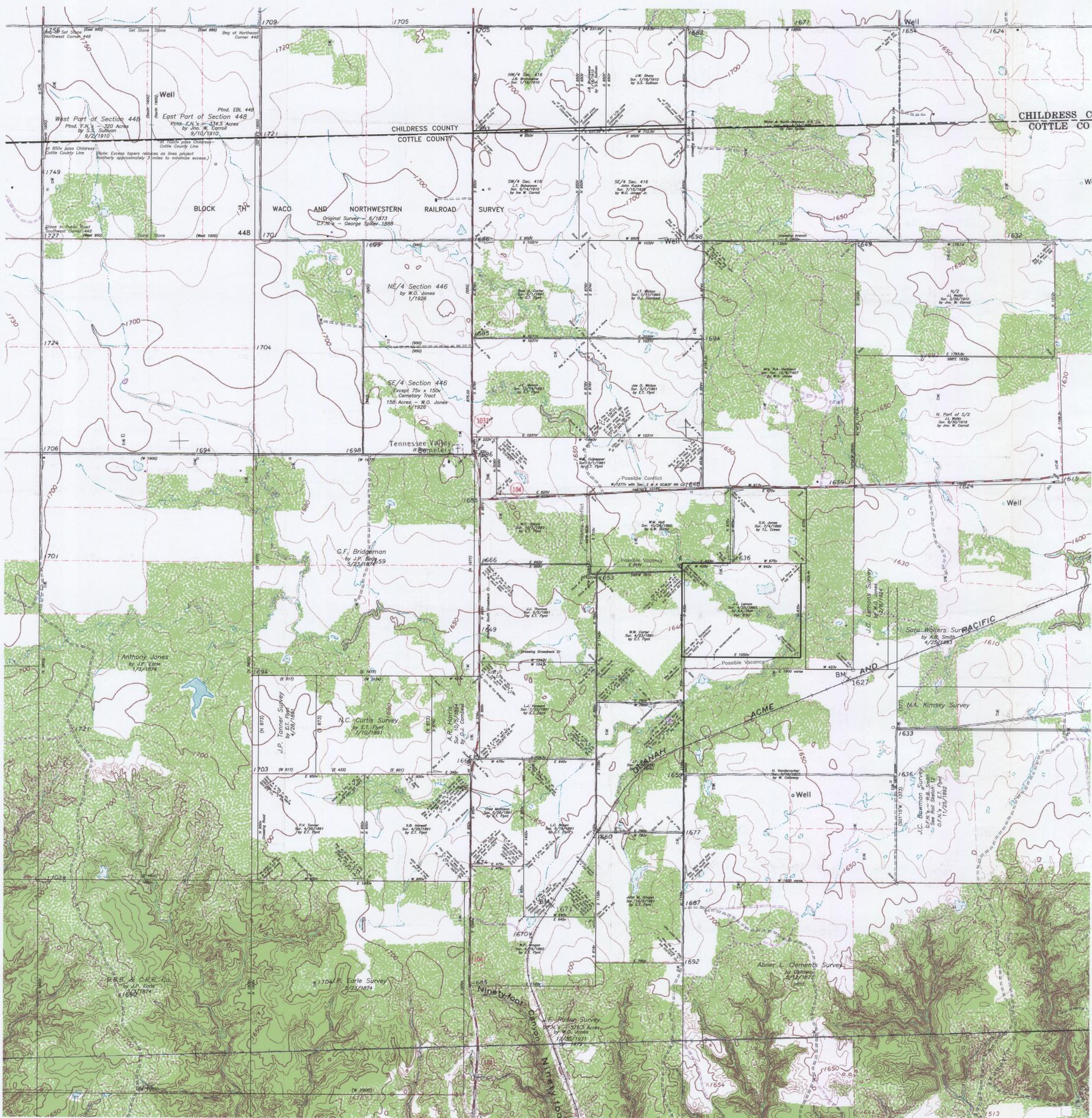
Point	Northing	Easting	Elevation	Description
113	2,704,266.706	538,921.089	0.000	NE SB HARWELL SR
114	2,705,227.341	537,006.859	0.000	SW GF BRIDGEMAN
115	2,704,309.826	537,944.663	0.000	NE PV TANNER
116	2,703,358.314	537,902.633	0.000	SE PV TANNER
117	2,705,203.911	537,537.402	0.000	NE JP RANNER
118	2,705,157.052	538,598.508	0.000	NE.NC CURTIS SRY
119	2,704,329.516	537,498.788	0.000	SE JP TANNER SRV
120	2,704,282.657	538,559.894	0.000	SE NC CURTIS

COTTLE CO. SKETCH FILE 18

COONTER 82413

WORKING SKETCH OF THE W.W. CARTER
SURVEY, ABSTRACT 1110, P-4166,
COTTLE COUNTY, TEXAS

(Located 23.5 Miles - N39°E from Paducah, Texas)

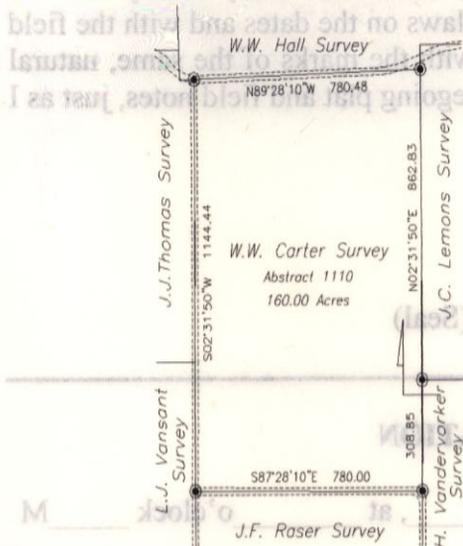


Prepared for:
BRAD FENTER
707 LAPLAND ROAD
BOWIE, TEXAS 76230
(940)476-2453

PIPER SURVEYING COMPANY
P.O. BOX 60432, MIDLAND, TEXAS 79711
(432)550-7810, FAX (432)550-0312

Drawing File: Cottle.Dwg	Drawn by: Gene M. Rodriguez
Scale: 1"=300' Vertical	Checked by: J. Stan Piper
Date: 6/7/04	Field Book:

PLAT OF SURVEY



Φ W.W. Carter Survey
 THE STATE OF TEXAS Φ
 Φ File: P-4166
 COUNTY OF COTTLE Φ
 Φ Abstract: 1110

See Accompanying Roll Sketch and Report

CORRECTED FIELD NOTES of W. W. Carter Survey, containing 160.00 Acres of Land, made for Brad Fenter by virtue of his ownership, said land is situated in Cottle County, about 23.5 miles N39°E from Paducah, the county seat, and described by metes and bounds as follows, to-wit:

BEGINNING at (N= 2,705,139.34 varas, E= 540,861.49 varas) a 5/8" iron rod with a 2" aluminum cap marked "PLS 1974" set at the Northwest corner of the H. Vandervorker Survey, Abstract No. 359, on the East side of a fence post being 0.4 varas East and 1.1 varas South of a fence corner with several stones on its North side, from whence a 5/8" iron rod with a 2" aluminum cap marked "PLS 1974" set in position of George Spiller's set stone at the common South corner of the Corrected Field Notes of Sections 415 and 416, Block "H", Waco and Northwestern Railroad Company Survey as witnessed by W. O. Jones, Jr. in subdivision survey for patent of the Southeast quarter of said Section 416 on July 15, 1938, bears N02°33'54"E, a distance of 3798.18 varas;

THENCE N02°31'50"E with the West boundary line of the J. C. Lemons Survey, Abstract No. 1072 at 812 varas pass 2.2 varas West of a point in N-S fence line, continuing for a total distance of 862.83 varas to a 5/8" iron rod with a 2" aluminum cap marked "PLS 1974" set in a public road at the most Westerly Northwest corner of said Lemons Survey and the Northeast corner of this survey;

THENCE N89°28'10"W with the South boundary line of the W. W. Hall Survey as located by E. T. Flynt in his survey of said W. W. Carter Survey within a graded county road at 23.2 varas pass 2.1 vara North of point in the center of said graded road, continuing for a total distance of 780.48 varas to a 5/8" iron rod with a 2" aluminum cap marked "PLS 1974" set in the intersection of graded county roads at the Northwest corner of said W. W. Carter Survey, also being the most Easterly Northeast corner of the J. J. Thomas Survey, Abstract 1090, from whence a 3/8" spike set in the center of said road intersection bears S32°E a distance of 2.18 varas and a stake and lath set in fence bears N2°32'E a distance of 9.0 varas;

THENCE S02°31'50"W with the East boundary line of said J. J. Thomas Survey, within a graded county road, at 785.61 varas pass the Southeast corner of the said Thomas Survey and the Northeast corner of the L. J. Vansant Survey, Abstract 1163, continuing with the East boundary line of said Vansant Survey for a total distance of 1144.44 varas to a 5/8" iron rod with a 2" aluminum cap marked "PLS 1974" set at the Northwest corner of the J. F. Raser Survey, Abstract 1145, being the Southwest corner of this survey, from whence a 60d nail set in the centerline of said road intersection bears N17°E, a distance of 4.39 varas and a stake and lath set in fence line bears N87°32'W, a distance of 6.26 varas;

THENCE S87°28'10"E with the North boundary line of said Raser Survey within a graded county road, a distance of 780.00 varas to a 5/8" iron rod with a 2" aluminum cap marked "PLS 1974" set at the Northeast corner of said Raser Survey being the Southeast corner of this survey;

THENCE N02°31'50"E with the West boundary line of said Vandervorker Survey, a distance of 308.85 varas to the Place of Beginning.

Bearings, distances, and coordinates are grid based on the Texas State Plane Coordinate System, North Central Zone, 1983(1993) North American Datum, survey is based on U.S.C.&G.S. station "SOMMER-1967" with published coordinates convert to vara values of N= 2,703,231.79, E= 539010.55 and a theta angle of -0°51'01.9"

Surveyed on May 22 and 24, 2004.
 Field Survey Personnel: J. Stan Piper,
 PLS 1974,
 Astech Z-12 RTK/GPS

I, J. Stan Piper, Licensed State Land Surveyor of Ector County, Texas do hereby certify that the foregoing survey was made by me on the ground, according to the laws on the dates and with the field personnel aforesaid, and that the limits, corners, and boundaries with the marks of the same, natural and artificial, are true and correct described and set forth in the foregoing plat and field notes, just as I found them on the ground.

J. Stan Piper
Licensed State Land Surveyor

(Seal)

COUNTY RECORDING INFORMATION

FILED for record on the _____ day of _____ 20____, at _____ o'clock _____ M

RECORDED on the _____ day of _____ 20____, at _____ o'clock _____ M

In Book _____, Page _____ of the Field Note Records of Cottle County, Texas.

Return to:

PIPER SURVEYING CO.
P. O. BOX 252
Gardendale, TX 79758

BY: _____
Becky Tucker, County Clerk

DO NOT WRITE BELOW THIS LINE
FOR GENERAL LAND OFFICE USE ONLY

THESE 88°28'10"E with the North boundary line of said Raser Survey within a graded county road, a distance of 780.00 vars to a 2" aluminum cap marked "PLS 1974" set at the Northeast corner of said Raser Survey being the Southeast corner of this survey;

THESE N02°31'50"E with the West boundary line of said Vandervoort Survey, a distance of 308.82 vars to the Place of Beginning

Bearings, distances, and coordinates are grid based on the Texas State Plane Coordinate System, North Central Zone, 1983(1993) North American Datum, survey is based on U.S.C.&G.S. station "SOMMER-1967" with published coordinates convert to vars values of N=2,703,231.79, E=239010.22 and a theta angle of -0°21'01.9"

Surveyed on May 22 and 24, 2004
Field Survey Personnel: J. Stan Piper
PLS 1974
Atech 2-12 RTKGPS