

Sketch File No. 73

Pecos County

Filed December 14 1940
Bascom Giles, Com'r

Catherine Fischer
File Clerk

Descriptive: Surveyor's Report
of Surveys in Blocks 49,
and 50 T & P Ry; and Blk.
183, M. H. Bownan; and Blk.
3, T & P Ry.

346

RECEIVED

DEC 14 1940

REFERRED TO MAP

Pecos Co
SKETCH FILE NO 73.

DELIVERED TO
GENERAL Land Office
IN PERSON BY MR ESTILL
AND MR. CHANDLER -
12-14-40
Chandler Survey

December 10th 1940

Hon. Bascom Giles
Commissioner of the General Land Office
Austin, Texas

Dear Mr. Giles:

Under authority of instructions contained in your letters of November 19th and 20th, 1940 directing, at the request of the landowners, a resurvey of the following described property located in Pecos County, Texas:

1. Section 30, Certificate 4641, Section 42, Certificate 4647, all in Block 49, Township 10, T & P Ry Co. Survey, Pecos County, Texas;
2. Section 46, Certificate 4745 and Sections 47 and 48, Certificate 4746, all in Block 50, Township 10, T & P Ry Co. Survey, Pecos County, Texas;
3. Section 25, Certificate 4735, Sections 35 and 36, Certificate 4740, Sections 37 and 38, Certificate 4741 and Section 39, Certificate 4742, all in Block 50, Township 10, T & P Ry Co. Survey, Pecos County, Texas;
4. Section 4, Certificate 1074, Abstract 7513, Block 183, W. J. Mitchell, Original Grantee; Section 5, Certificate 1398, Abstract 7517, Block 183, Green Jackson, Original Grantee; Section 6, Certificate 1865, Block 183, M. H. Bowman, Original Grantee; and Section 42, Certificate 1/490, Abstract 7516, Block 3, T & P Ry Co. Original Grantee, all in Pecos County, Texas;

I wish to state that I have made such a survey for and on behalf of the following named landowners: Messrs. Paul LeGros, Neal Tanquary, Malcolm W. Almond, and Mrs. Leila OdNeal.

This survey was made for the purpose of ascertaining the information requested, and the following report and accompanying map, together with corrected field notes, set forth the facts as disclosed by such survey.

SEE LETTERS TO CHADY CHANDLER
DATED NOV 19 AND 20 - 1940 LETTER BOOK NO 70
W.S.

I.

DATA FOR SURVEY

Working sketch compiled from certified copies of both original and corrected field notes for Sections in T P Blocks 48, 49 and 50, Township 10; T P Block 3; G H & S A Railroad Co. Blocks 10 and 11; H & T C Block 1, Blocks 122 and 183; and T C Railroad Co. Block 180.

Certified copy of Murray Harris' map of T P Blocks 48 and 49, Townships 8, 9 and 10, T P Blocks 50 and 51, Townships 7, 8, 9 and 10, and T P Block 3.

Photostatic copy of Murray Harris' field book for lines between Blocks 48 and 49, 49 and 50, Townships 8, 9 and 10 and line between Blocks 50 and 51, Townships 7, 8, 9 and 10, connecting line between the S. corner of the A. Ball Survey, No. 256, Reeves County, and the N. W. corner of Section 14, Block 51, Township 10, and lines of T P Block 3.

Certified copies of sketches, maps, connecting surveys and reports relative to the above mentioned blocks.

II.

METHOD OF SURVEY

All angles were measured with Gurley Light mountain transit with Vernier graduated to 1 min.; all angles measured were doubled for check and interpolation of fractional parts of a minute. All tangents were produced by double centering and distances measured along well "brushed out" lines with standard Chicago 50 vara steel tape. (Ties were made to all U. S. C. & G Geographic positions) in this area and Azimuths and distances were then computed between positions on the Lambert-Grid in order to determine the error of closure relative to the true azimuths and distances given between the geographic positions. From the resulting error of closure, I find that the traverses fall well within the limit of error required under the classification of third order traverse.

III.

BEARINGS

All bearings shown on accompanying map are relative to the true meridian, through U. S. C. & G. Station Bruce. No correction of bearings were made for the convergency of meridians at points East or West of this position. The area being treated as if it were a plane surface.

In order to determine the correct magnetic declination of this locality and date, I occupied both U. S. C. & G. positions, Bruce and Rice, and observed several readings at intervals between the true meridian and the magnetic meridian, and from the results I find the average mean declination in this locality, August 20, 1940, to be $11^{\circ} 50'$ E.

From the bearings and courses of lines given by Harris from identified rock mounds, I find that for an average of the N. & S. lines in T P blocks 49 and 50, Township 10, and T P Block 3 that a declination now of $11^{\circ} 55'$ E. will check the bearings to peaks, and the courses of lines between identified rock mounds, as called for by Harris. But on the S. line of the T P 80 mile reserve I find that it requires the use of a declination of $12^{\circ} 15'$ E to check the course of line, and bearings to peaks, as called for by Harris. I find this S. line of the T P 80 mile reserve to bear generally 25 minutes N. of E. and S. of W. although the course called for is East. This error is very likely due to an accumulated error due to the large extent of area surveyed.

For the lines of the G H & S A Blocks 10 and 11, run and marked by J. A. Green, I find by using the bearings given to peaks and the courses of lines between identified rock mounds, that a declination now of $11^{\circ} 10'$ East will check the bearings to peaks and the courses of lines, as called for by Green. By referring to the U S C & G publication on Magnetic Declination, I find that in the year 1889 for this locality the declination was $10^{\circ} 50'$ East. Green stated in his notes that he used a declination of $10^{\circ} 10'$ East. Mr. Green very likely knew the correct declination at this date and for this locality, but inasmuch as, according to the

records, Mr. Green was, in part, retracing the lines of Edwards, he very likely used the declination of $10^{\circ} 10'$ East in order to follow and coincide with the work on the ground previously done by Edwards.

IV.

RETRACEMENT OF LINES - T. P. BLOCKS 49 and 50, Township 10.

The original field notes for the Sections in T. P. Blocks 49 and 50, Township 10, were returned in part by J. L. Peck and in part by W. C. Powell and dated July 1876.

The original notes returned by both Peck and Powell contained no calls to lasting marks or monuments and no calls to objects or marks by which their footsteps could be followed or their marks identified.

The original notes for sections in these Blocks filed by Peck and Powell for Sections bounding on the Block lines, were cancelled and corrected field notes signed by Murray Harris have been filed in lieu thereof.

I found and identified Harris' stone mound on the S. boundary of the T. P. 80-mile reserve, established for the common corner between Blocks 49 and 50, Township 10. This corner is 110 vrs. (call 110 vrs.) N. of old military road of which the dim outline is still discernible. This corner is also 413 vrs. (call 412 vrs.) W. of large stone mound on the side of old military road, a stone set in center marked "TP".

Thence from Harris' stone mound on the S. boundary line of said T. P. 80-mile reserve established for the common corner between Blocks 49 and 50, Township 10, I ran Easterly along the S. boundary of the T. P. 80 mile reserve and at 413 vrs. (call 412 vrs.) a large stone mound on the side of old military road, a stone set in center marked "TP", at 1907.8 vrs. to a stone mound * I find the bearings as given here to check and the position of stone mound good, relative to course and distance.

Thence continuing Easterly at 1908.6 vrs. a stone mound, I find the bearings as given here to check and the position of the stone mound good relative to course and distance.

Thence Easterly at proportional distance of 1909.4 vrs. no earth mound found, but at this point bearings as given check.

Thence Easterly at 1909.4 vrs. a stone mound; no bearings called for here; however, I find position of this stone mound good relative to course and distance.

Thence Easterly at 725 vrs. (call 730 vrs.) center of Cayonasta Creek at proportional distance of 1910.3 vrs. no trace of earth mound found, as called for, but bearings as given check at this point.

Thence Easterly at 1910.3 vrs. a stone mound, bearings given in Harris' field book check and position of this stone good relative to course and distance and identified as being Harris' stone mound on the S. Bdy. of T. P. 80-mile reserve for the common corner between Blocks 48 and 49, Township 10.

* By the calls to stone mounds given in Harris' notes,
* filed in the General Land Office, such as "1900 vrs. to a stake and stone mound marked B-49, 50 etc.", it could be so construed as to mean the stones were marked as described, but in the notes given in Harris' field book for the same call as given above, it specifically states that the stakes were marked.

Thence continuing Easterly along said S. line of said T. P. 80-mile reserve to check corners in Block 48, Township 10, and at 5725.4 vrs. I find a large stone mound on high ridge that is called for by Harris. Bearing as called for check and position good relative to course and distance.

Thence Easterly at 3819.3 vrs. a stone mound, bearings as called for check, and position good relative to course and distance.

Thence Easterly at 541. vrs. (call 540 vrs.) a large stone mound on top of high hill. The markings called for not found and no

bearings given; however, its position is good relative to course and distance and at 1909.6 vrs. a stone mound for the S. E. corner of Block 48, Township 10, and the S. E. corner of the T. P. 80-mile reserve; no bearings were given at this point, but the position of this stone mound is good relative to course and distance.

Thence Northerly at 971.6 vrs. (call 1024 vrs.) a stone mound for the most Northerly N. W. corner of Section 30 T P Block 3. The distance called for here by Harris of 1024 vrs. is the same distance as Harris found that Block 3 would overlap the S. boundary of the T. P. 80-mile reserve at the N. W. corner of said T. P. Block 3. It is most unlikely that Harris could run all of the lines of Block 3 and end with a perfect closure. Evidently, the call of 1024 vrs. was inserted to make a closure.

I then found and identified the N. W. corner of Section 27, T. P. Block 3, a stone set in ground marked NW-27 B-3, as called for by Harris, from which I then ran Westerly along the North line of said T. P. Block 3, and at 1914.4 vrs. a stone set in ground marked NW-28 B-3. Bearings as called for check.

Thence Westerly at 800 vrs. (call 799 vrs.) cross drain into Leon Holes at 1911.7 vrs. a stone set in ground on slope East to drain marked NW-29 B-3; bearings as called for check.

Thence Westerly at 854.3 vrs. (call 750 vrs. in notes filed in Gen. Land Office and 755 vrs. in Harris' field book) for the most Northerly N. W. corner of Section 30, Block 3. Again the call distance by Harris was very likely given to make a closure for it would be most unlikely for Harris to end with a perfect closure, however, no bearings were given at this stone mound for the most Northerly N. W. corner of Section 30, T. P. Block 3, but I find its position good relative to course and distance and by the intersection of lines of T P Block 3 and T P 80-mile reserve.

Thence Northerly from the stone mound at the most Northerly N. W. corner of Section 30, T P Block 3, at 939.2 vrs. a 1½" iron pipe marked GPCO in fence corner with stones scattered about. A fire protection

lane has been graded along the fence and possibly the stone mound was destroyed by grader. A bearing is given here to old stage stand, which I was unable to locate.

Thence continuing Northerly at 1908.8 vrs. a stone mound $1\frac{1}{2}$ " iron pipe driven in center, pipe marked GPCO; no bearings were given here, but I find the position of the stone mound good relative to course and distance.

Thence Northerly at 320 vrs. (call 320 vrs.) the dim outline of the old Presidio and Ft. Stockton road. At 1907.8 vrs. a $1\frac{1}{2}$ " iron pipe, marked GPCO and at 1910.9 vrs. point for proportional corner, no bearings were called for at this point.

Thence Northerly at 1188.4 vrs. (call 1182 vrs.) a large stone mound, large red stone in center marked 103-M. At 1200 vrs. center of old road; at 1910.9 vrs. a stone mound, large stone in center marked SE-24. Bearings as given here check.

Having thus retraced the S. boundary of the T P 80 mile reserve along the S. line of T P Blocks 48 and 49, Township 10, and checked on a well known and identified monument on the E. line of the T P 80 mile reserve, a large red stone marked 103-M, I then returned to the stone mound on the S. boundary of T P 80 mile reserve identified by me as being established by Harris for the common corner between Blocks 49 and 50, Township 10, from which I then ran Westerly along the S. line of the T P 80 mile reserve and at 1152.1 vrs. (call 1150 vrs.) a stone mound as called for by Harris for the N. W. corner of T. P. Block 3, and the N. W. corner of Survey 42, T P Block 3. (I note here that in the notes in Harris' field book a stone mound is called for, but in the notes of Harris, filed in the Gen. L. O. a large stake is called for). The bearing, as called for here, checks, and I find the stone mound to be 420 vrs. (call 420 vrs.) N. of old military road, the dim outline of which is still discernible, and at 1909.4 vrs. a stone mound; no bearings were called for at this point, but I find the position of this stone mound good relative

to course and distance.

Thence Westerly at 1910.1 vrs. a stone mound. No bearings are called for, but position good relative to course and distance.

Thence Westerly at 982.5 vrs. a stone mound called for by A.N. Lea for the corrected common corner between Section 6 and 10, Block 183; at 1909.4 vrs. a stone mound on high ridge, bearing given here checks; also position good relative to course and distance.

Thence Westerly at 1908.1 vrs. a stone mound, no bearing called for, but position good relative to course and distance.

Thence Westerly at 1908.3 vrs. a stone mound; here a call is given for Hackberry trees; at course and distance called for trees I find that an earthen dam has been constructed and most likely witness trees were cut down during construction of the dam, however, I find the position of this stone mound good relative to course and distance.

Thence Westerly at 1910.4 vrs. a stone mound on the edge of drain in valley. The ground here has been badly eroded and some of the stones have fallen into the drain. Bearings given here check, and the position is good relative to course and distance and identified as being Harris' stone mound on the S. line of the T P 80 mile reserve for the common corner between Blocks 50 and 51, Township 10.

Thence continuing on Westerly along the S. line of said T P 80 mile reserve at 982.9 vrs. a stone mound, stone marked NE-184, and called for by A. N. Lea for the corrected common corner between Survey 184 G H & S A Block 11 and Survey 1 Block 122.

I then returned to stone mound on the S. boundary of T P 80 mile reserve, identified by me as being Harris' common corner between Blocks 50 and 51, Township 10, from which I then ran Northerly between Blocks 50 and 51, Township 10, and at 1913.6 vrs. a stone mound; bearings as given here check and the position of the stone mound good relative to course and distance.

Thence Northerly at proportional distance of 1910.7 vrs; no trace of earth mound called for found, but bearings given check at this point.

Thence Northerly at proportional distance of 1910.7 vrs; no trace of earth mound called for found, but bearing, as given check at this point.

Thence Northerly at 1910.7 vrs. a stone mound; bearings as called for check and position good relative to course and distance.

Thence Northerly at 1912 vrs. a stone mound on level upland; bearings called for here check and position of stone mound good relative to course and distance.

Thence Northerly at 1910.1 vrs. a stone mound on level table land; bearings, as called for here check, and position of stone mound good relative to course and distance.

Thence Northerly at 1856.5 vrs. pass large stone mound, large stone in center marked N-7-W. At 1910.4 vrs. a stone mound; bearings as called for here check and position good relative to course and distance, identified as Harris' stone mound for the most southerly N. W. corner of Block 50, Township 10. This corner should be on the S. boundary of H & T C RR Block 1, a senior survey. I then found and identified the corner by J. A. Green for the N. E. corner of Survey 20 H & T C Block 1, a large stone marked NE-20. I find the bearings as given here by Green to check, using the proper declination.

Thence from stone marked NE-20 I ran Southerly along the East line of H & T C Block 1 and Survey 20, and at 1905.7 vrs. a large stone mound, a large red stone in center marked SE-20; bearings as given here check and stone mound identified as being Green's S.E. corner of Survey 20, H & T C Block 1, from which I then ran Westerly along the S. line of said H & T C Block 1 and at 961.5 vrs. pass 35.5 vrs. South of a large mound of small stones, identified as being set by Harris for the N. W. corner of Survey 9, T P Block 50, Township 10, and at proportional

distance of 1905.9 vrs. no trace of earth mound called for found; but bearings, as given by Green, check.

Thence Westerly at proportional distance of 1905.9 vrs. no trace of earth mound called for found; but bearings as given by Green check.

Thence Westerly at 966.6 vrs. pass 53.9 vrs. S. of stone mound identified as being established by Harris for the Southerly N.W. corner of T P Block 50, Township 10, at 967.8 vrs. a large stone mound, large stone in center marked N-7-W. At proportional distance of 1905.9 vrs. no trace of earth mound called for found, but bearings, as called for by Green check at this point.

Thence Westerly at 1905.9 vrs. a stone mound rock marked SE-16, old marks and newly marked SE-16 B-1, the bearings called for here by Green check and this stone mound identified as being Green's S. E. corner of Survey 16, H & T C Block 1. Thus I find that Harris has overrun the S. line of H & T C Block 1, and H & T C Block 1 being a senior survey, I fixed the point for the most southerly N. W. corner of T. P. Block 50, Township 10, on Green's S. line of H & T C Block 1. I then returned to large mound of small stones identified as being established by Harris for the N. W. corner of Survey 9, T P Block 50, Township 10, from which I then ran Northerly at 470 vrs. (call 470 vrs.). The dim outline of old Fort Stockton and Leon Holes Road, and at mean proportional distance of 1908.1 vrs. no trace of earth mound called for found, but bearings called for by Harris check at this point.

Thence I ran Easterly and at 953 vrs. large red stone marked NE-20, 32 vrs. S. here I find that the most Northerly W. line of Block 50 as run and marked by Harris overlaps the East line of the Senior Survey H & T C Block 1 as run and marked by Green. I then established a point on the East line of H & T C Block 1, as marked by Green, 32 vrs. Northerly along said line from Green's stone, marked N. E. 20 for the most Northerly N. W. corner of T. P. Block 50, Township 10, and the N. W. corner of Survey 4, T P Block 50, Township 10.

Thence from the point, for the most Northerly N. W. cor. of Block 50 Township 10, I ran Easterly between Townships 9 and 10, Block 50, no corners being looked for as according to the records, this line was not marked by Harris; and at 6750.4 vrs. a large stone mound on S.E. Slope of ridge; bearings as called for check and stone mound identified as being established by Harris for the common corner between T. P. Blocks 49 and 50, Townships 9 and 10.

Thence I ran Southerly between Blocks 49 and 50, Township 10 and at proportional distance of 1909 vrs., no trace of earth mound called for found, but bearings given check at this point.

Thence Southerly at proportional distance of 1909 vrs., no trace of earth mound called for found, but bearings given check at this point.

Thence Southerly at proportional distance of 1909 vrs. no trace of earth mound called for found, but bearings called for check at this point.

Thence Southerly at 1909 vrs. a stone mound on dagger ridge, bearings given here check, and position of stone mound good relative to course and distance and topography shown in sketched in Harris' field book.

Thence Southerly at 1907.7 vrs. a stone mound at foot of ridge. All peaks out of sight; no bearings called for, but position of stone mound good relative to course and distance and to topography shown sketched in Harris' field book.

Thence Southerly 1910.1 vrs. a stone mound in flat between ridges. Bearings as called for here check and position of stone mound good relative to course and distance and to topography shown sketched in Harris' field book.

Thence Southerly at 1909.8 vrs. a stone mound; bearings as called for check and position of stone mound good relative to course and distance and to topography shown sketched in Harris' field book.

Thence continuing Southerly in line with above stone mounds at 1868.2 vrs. intersect the S. boundary line of the T. P. 80-mile reserve, Harris' stone mound for common corners between Blocks 49 and 50, Township 10, 70.7 vrs. West. The notes in Harris' field book state "Thence S. 1900 vrs. connect on stake and stone mound, stake marked B-49 B-50, Tie 39 vrs. East and 21 vrs. S." The tie referred to 39 vrs. East and 21 vrs. S. was evidently Harris closing error, as the beginning point of this line originated 24 miles Northerly at the common corners of Townships 7 and 8, Blocks 49 and 50, and due to the distance run there would be an accumulation of error, however, the corners should connect, thus causing a deflection in the block line and a shortage in the distance of Sections 48 and 43, Block 50 and 49.

I then returned to stone mound on the S. boundary of the T P 80 mile reserve previously identified by me as being the common corner established by Harris between Blocks 48 and 49, Township 10, from which I then ran Northerly between Blocks 48 and 49 and at proportional distance of 1909.3 vrs. No trace of earth mound called for found, but bearings, as given, check at this point.

Thence Northerly at 1404 vrs. (call 1403 vrs.) the dim outline of the old Ft. Davis and Ft. Stockton road, a pile of small stones on each side of road found, as called for. Stones now scattered. At proportional distance of 1909.3 vrs. no trace of earth mound called for found, but bearings as called for check at this point.

Thence Northerly at 1909.3 vrs. a stone mound on a lime stone ridge with cedar post cemented in center; bearings, as called for check, and position of stone mound good relative to course and distance.

Thence Northerly at 1908.2 vrs. a stone mound on the East edge of Cayonasta Valley. Bearings as called for check and position of stone mound good relative to course and distance.

Thence Northerly at proportional distance of 1908.8 vrs. no trace of earth mound as called for found, but bearing called for, check at this point.

Thence Northerly at 905.8 vrs. (call 907 vrs.) cross main drain in Cayonasta Valley on Cayonasta Creek, at proportional distance of 1908.8 vrs. no trace of earth mound as called for found, but bearings called for, check at this point. Also the position of the line relative to crossing and bend in Cayonasta Creek shown sketched in Harris field book is good.

Thence Northerly at a proportional distance of 1908.8 vrs. no trace of earth mound, as called for, found, but bearings given check at this point.

Thence Northerly at 1908.8 vrs. a stone mound, large stone set in center; bearings given here check and position of stone mound good relative to course and distance. Identified as being the Harris common corner for Blocks 48 and 49, Townships 9 and 10.

Thence I ran Westerly along the line between Townships 9 and 10, Block 49, no corners being looked for, as according to the records, this line was not marked by Harris, and at 11,438.1 vrs. a large stone mound on S. E. slope of ridge previously identified by me as being Harris' common corner between Blocks 49 and 50, Townships 9 and 10.

In summary it can be stated that the lines of Blocks 49 and 50, Township 10, as run by Harris, are well marked and corners identified by calls to both artificial and natural monuments. Those corners on the block lines not marked with permanent, lasting markers, such as earth mounds, can be established on the line between the identified corners at distances proportional to the distances between the identified corners. For those lines in the blocks not marked by Harris, i.e. the lines between Townships 9 and 10, Blocks 49 and 50, corners can be established on the line adjoining the block corners, found and identified at distances proportional to the distances found between the two identified block corners.

In checking the various bearings to peaks called for by Harris, I find that there are some discrepancies in the recorded bearings and the bearings as observed, but this type error is not uncommon, the cause of which can be very easily understood while in the field observing the bearings. I also find that there are a few discrepancies between the notes as recorded in Harris' field book and the transcribed notes of Harris filed in the GLO, such as the bearings being recorded in the opposite quadrant, transpositions, etc.

The subdivision of Blocks 49 and 50, Township 10 into Sections since the boundary lines of the blocks have been established is simply a matter of proportioning the distances between original and proportional corners on the block lines. This method of proportioning, together with courses and distances for all sections in the blocks, is shown on the accompanying map.

Permanent, concrete monuments, carefully set and witnessed, to natural and artificial objects for the section corners established by me, are shown on the accompanying map in accordance with the symbol shown in the legend. The original corners on the block lines, identified as being those of Harris, were not disturbed by establishing new monuments in conjunction with them, but left in their natural unaltered state.

V.

RE: BLOCK 122

By inspection of the original field notes signed by L.W.Durrell, I find that, although there are various calls for rock mounds, there are no calls to either artificial or natural objects by which the rock mounds called for, if found, could be identified.

I find corrected field notes for sections, viz. 1, 12 and 13, this block, have been signed by A. N. Lea.

Since it is evident that Block 122, on its North, South and West boundaries is bounded by senior blocks, viz. T P Blocks 50 and 51,

Township 10, G H & S A RR Co. Blocks 10 and 11, these senior surveys should, therefore, be given first preference. By inspection of the field notes of G H & S A RR Co. Blocks 10 and 11, I find the original field notes were written by L. E. Edwards, who apparently, according to the records, established a few corners of the sections in these blocks on the ground.

In the year 1889 J. A. Green found and identified, according to the records some of the corners established by Edwards, from which he ran and marked the lines of G H & S A blocks 10 and 11. Since Mr. Green would have access to much more information regarding the original marks left by Edwards at the time he ran the lines than I would have now and since Mr. Green's work seems to be very carefully executed, it is my opinion that the lines of Blocks 10 and 11, as run and marked by Mr. Green, are acceptable, since, according to the records, he did find and identify original marks left by Edwards from which he ran and marked the block lines in such a manner that would be in agreement and in accordance with the general plan called for in the original notes.

Having previously retraced T P Blocks 50 and 51, Township 10, I then proceeded to retrace the East line of G H & S A Block 11, and the most Northerly N. line of G H & S A Block 10, as run and marked by J. A. Green in accordance with the corrected field notes, which are of record.

I then returned to the corrected corner of Section 1, Block 122, and Section 184, G H & S A Block 11 on the S. boundary of T P Block 51, Township 10, marked NE-184, previously identified by me as being the corner called for by A. N. Lea in the corrected notes for the above mentioned sections, from which I then ran Southerly along the East line of G H & S A Block 11 and at 1065.8 vrs. a stone mound on the side of ridge large rock in center marked NE-183, as called for by J. A. Green. I find the bearings to peaks as called for here by Green check.

Thence Southerly at 283.5 vrs. a stone mound called for by A. N. Lea for the corrected S. W. corner of Section 1, Block 122, no markings were found,

but bearings called for by Lea check (by calling course of line South) and at 1908.9 vrs. a stone mound on the side of ridge, large rock marked NE-138; bearings as called for by Green check.

Thence Southerly at 1908.1 vrs. a stone mound, rock marked NE-137, the bearings, as called for by Green, check.

Thence Southerly at 1911.4 vrs. a stone mound, rock marked NE-92; Green's bearings, as called for, check.

Thence Southerly at 1909.9 vrs. a stone mound, rock marked NE-91; Green's bearings, as called for, check.

Thence Southerly at 1909.8 vrs. a stone mound on side of drain; mound partially covered by sediment from drain. No marked rock found, but bearings as given by Green check and position of stone mound good relative to course and distance.

Thence Southerly at 284.4 vrs. (call 284 vrs.) a stone mound on the S. side of drain rock marked NW-212; bearings as called for by Green check and position of stone mound good relative to course and distance and identified as Green's corner for the most Northerly NW corner of G H & S A Block 10.

Thence Easterly along the most Northerly North line of G H & S A Block 10 and at 1909.4 vrs. evidence of rock mound being destroyed by construction of road.

Thence Easterly at 1909.4 vrs. a stone mound, rock marked NE-213. Bearings as called for by Green check.

Thence Easterly at 1907.8 vrs. a stone mound on the North side of a rocky ridge, rock marked NE-214. Bearings as called for by Green check, identified as Green's corner for the most Northerly N. E. corner of G H & S A Block 10.

Thence I continued on Easterly on a projected line through last corner identified as Green's and at a mean proportional distance of 1909 vrs. I established a point for the S. E. corner of Block 122.

I find the lines of G H & S A Blocks 10 and 11, as run by Mr. Green well marked and identified by marked rocks and bearings to natural objects. I find Mr. Green's work to be well done with the exception of occasional errors in recording bearings. However, this type of error is not uncommon and can be easily accounted for when on the ground reading the bearings.

Since the most Northerly N. E. corner of Block 122 was not found and identified by me when I retraced the S. boundary of the T. P. 80 mile reserve, and since Sections 9 and 10, Block 183 have been patented on A. N. Lea's notes, I returned to the stone mound on the S. B. of T P 80-mile reserve, previously identified by me as being Lea's corrected corner, for the N. W. corner of Section 6 and the N. E. corner of Section 10, Block 183, from which I then ran Southerly and at 1496.9 vrs. a stone mound called for by A. N. Lea, the S. W. corner of Section 6 and the N. W. corner of Section 5, Block 183; bearings, as called for here by Lea, check by calling course between rock mounds South.

Thence continuing Southerly at 9560.5 vrs. the point established by me for the S. E. corner of Block 122. I then returned to Lea's corrected corner on the East boundary of G H & S A Block 11, for the S. W. corner of Section 1, Block 122, from which I then ran Easterly; no corner called for found for Section 1, 12 and 13, Block 122, and at 7639.8 vrs. a stone mound, previously identified as Lea's corrected corner for the S. W. corner of Section 6 and the N. W. corner of 5, Block 183.

The distances between Sections 1, 12 and 13, Block 122, and Section 10, Block 183, along the S. boundary line of T P 80 mile reserve were given the proportional distance between Lea's identified corrected corner for the N. W. corner of Survey 1, Block 122, and the N. E. corner of Survey 10, and the N. W. corner of Survey 6, Block 183. The S. line of Section 10, Block 183, will be controlled by its call distance. S. of the identified corner of Lea's for the S. W. corner of Section 6 Block 183, and the same distance S. of the S. E. corner of Survey 13, Block 122, as established at the intersection of lines between Lea's corrected S.W. corner of Survey 1, Block 122 and the S. W. corner of Survey 6, Block 183, and a line between proportioned N.W. corner of Section 10, Block 183, on

the S. boundary of T P 80 mile reserve and Green's N. E. corner of Section 214, G H & S A Block 10. The S. lines Sections 1, 12 and 13, Block 122, were established by the line run from Lea's corner for S. W. corner of survey 1, Block 122, to Lea's corner for the S. W. corner of Survey 6, Block 183. For the remaining surveys in Block 122, the N. and S. distances were obtained by proportioning the distance between the S. lines of surveys 1, 12 and 13, as established and the most Northerly N. line of G H & S A RR Co. Block 10, as run and marked by Green. The N. and S. distance of Section 9 Block 183, being the remaining proportional distance after deducting the call distance of $213\text{-}\frac{3}{4}$ vrs. The East and West distance along the S. line of Surveys 9 and 10, Block 183, and the surveys in Block 122 were proportioned between the E. line of G H & S A Block 11, as run and marked by Green and a line run from Lea's S. W. corner of Section 6, Block 183, to the point established by me for the S. E. corner of Block 122.

This method of establishing the East line of Block 122 and subsequent subdivision thereof was used in order to coincide and conform with method previously used by A. N. Lea for correcting surveys of this block along the S. boundary of the T P 80 mile reserve, and to coincide and conform with Surveys 9 and 10 Block 183, which sections have been previously patented on Lea's corrected field notes.

VI.

RE: BLOCK 183

This block was apparently intended to cover the remaining scrap lands between senior blocks, viz.: T P Block 50, Township 10, on the North; Block 122 on the W & T C R R Co. Block 180 on the S. and T P Block 3 on the East. The lines of T P Block 50 and Block 122 having been retraced and established by me, I then proceeded to examine the original notes of T P Block 3. The original field notes of T P Block 3 are dated July 1, 1873, and signed by L. E. Edwards. These notes contain no calls for permanent corners or calls to natural or artificial objects by which the footsteps of Edwards could be followed. The only call by Edwards by which this Block can be located is the beginning point of Section 1,

which call is "Beginning at a stake which is S. 70 deg. E. 57000 vrs. from the S. corner of A. Ball Survey 256." Evidently when the original notes of Block 3 were returned to the General Land Office by Edwards, it was apparently found the location of Block 3 as called for by Edwards would overlap the S. boundary of the T P 80 mile reserve, as defined under the Special Act of 1873. And since Block 3 was located in accordance with Section 8 of this Act, which provided that the T P RR Co. could locate 1,000 certificates of 640 acres each on any domain of the State, subject to location not included within the reservations and since Block 3 was evidently a part of the 1,000 certificates not to be located within the reserve, one whole tier of Sections in Block 3, namely, 1 to 22, inclusive, were abandoned, the certificates of which were returned to Edwards September 22, 1873, for relocation.

Corrected field notes signed by Murray Harris for Sections in Block 3, bounded on the block lines, have been filed and the original notes of Edwards for these sections have been cancelled.

According to the notes in Harris' field book, he went to the S. corner of the A. Ball Survey No. 256, and apparently having computed the latitude and departure from the course and distance given by Edwards, he elected to run East from the S. corner of the Ball Survey No. 256, and tie to point on the W. line of T P Block 51, Township 10, which line he had previously run. He then calculated the distance for the beginning point of Block 3 from his nearest corner on the S. boundary of the T P 80 mile reserve, previously established. The results of Harris' calculations are noted on the fly leaf of his field book. Accordingly, his calculations showed that the beginning point of Block 3 would be 755 vrs. East and 2924 vrs. N. from the rock mound on the S. boundary of the T P 80 mile reserve previously established by him for the common corner between surveys 47 and 48, Block 50, Township 10. He then deducted 1900 vrs., the distance for the tier of sections abandoned, and from the remainder found that the N. line of Block 3, according to his calculations, would still overlap the S. line of the T P 80 mile reserve, as established by him, by 1024 vrs.,

thus leaving 876 vrs. for the distance of survey 42, Block 3.

I then returned to the rock mound on the S. boundary of T P 80 mile reserve previously identified by me as being Harris' corner for the beginning point and N. W. corner of T. P. Block 3. I find this stone mound to be 757.3 vrs. East of stone mound the common corner between Surveys 47 and 48, Block 50, Township 10, and as previously stated, the notes in Harris' field book call this distance to be 755 vrs. while in his notes filed in the General Land Office, the call is 750 vrs.

Thence from the stone mound identified by me as being the stone mound called for in the notes in Harris' field book for the N. W. corner and beginning point of Block 3, I then ran Southerly along the West boundary of said Block 3, and at 420 vrs. (call 420 vrs.) the dim outline of old military road and at 880.3 vrs. (call 876 vrs.) a stone mound. I find the bearings, as called for, to check and position of stone mound good relative to course and distance and call to old military road.

Thence continuing Southerly at 692.5 vrs. a stone mound called for by A. N. Lea for the corrected S. E. corner of Survey 6, Block 183. Lea's bearings, as given herecheck (by calling course of line South) and at proportional distance of 1908 vrs. no trace of earth mound called for by Harris found, but bearing as called for checks at this point.

Thence Southerly at 1908 vrs. a stone mound on S. slope of ridge, bearings called for here check and position of stone mound good relative to course, distance and topography.

Thence Southerly at 1910 vrs. a stone mound on slope to East of a broken lime stone surface. Bearing as given here checks and position of stone mound good relative to course and distance.

Thence Southerly at 1092 vrs. (call 1089 vrs.) cross drain in Cayonasta Valley at 1809 vrs. (call 1807 vrs.) cross main drain in Cayonasta Valley. At 1911.2 vrs. the proportional distance, no earth mound found, bearings as called for check at this point, 30" cedar tree

on S. bank of drain called for not found, apparently washed away by erosion in drain.

Thence Southerly at 1911.2 vrs. a stone mound on a lime stone ridge sloping to the West; bearings as called for here check and position of stone mound good relative to course and distance and topography.

Thence Southerly at 1911.3 vrs. a large stone mound in small valley; bearings given here check and position of stone mound good relative to course, distance and topography.

Thence Southerly at 1910.4 vrs. a large stone mound on the W. slope of rocky point near a drain. Here we find at courses and distances called for the stumps of a double catclaw 5 and 6" in diameter and a catclaw stump 5" in diameter. I also find the bearings as called for check and position of stone mound good relative to course and distance and topography.

Thus I find the W. line of the T P Block 3, as run by Harris, to be well marked and marks identified by calls to both natural and artificial objects. I then examined the original field notes of T C RR Co. Block 180, dated April 27, 1883, and signed by L. W. Durrell, and find them to have no calls to natural or artificial objects by which his footsteps could be followed. I find corrected field notes of surveys in this Block 180 to have been signed by R. S. Dod. I then returned to my point, which I established for the S. E. corner of Block 122, from which I then ran Southerly and at 1920.8 vrs. a stone mound in valley no marked rock found, but a catclaw 3" in diameter and another 3" in diameter were found at the courses and distances called for. This corner identified as being Green's corner for the N. E. corner of Survey 316, G H & S A Block 10.

Thence Southerly along the most northerly E. line of G H & S A Block 10, at 44.8 vrs. a stone mound identified as being set by Dod 62.2 vrs. W. of Green's line at 1908.3 vrs. a stone mound, rock marked NE-315; bearings as given here by Green check.

Thence Southerly at 36 vrs. a stone mound identified as being set by Dod 59.6 vrs. West of Green's line, I then examined Dod's report on T C RR Co. Block 180 and found that he actually established the W line of Block 180, W. of Green's Northerly East line of G H & S A Block 10, as found by me, but was later authorized by the General Land Office to recognize Green's line as marked. In Dod's notes filed in the General Land Office he calls for points on Green's line S. of Green's corners, but his rock mounds are still standing in the position in which he established them - W. of Green's line. Since the original field notes of Survey 20, Block 180, call to join senior Block 122, I returned to my point for the S. E. corner of Block 122 and projected the line along the most Northerly N. line of G H & S A Block 10, Easterly and at 3790.6 vrs. I intersected the W. line of T. P Block 3 as run and marked by Harris at a point for the S. E. corner of Block 183, 694 vrs. Southerly from a stone mound on lime stone ridge sloping to the West identified by me as being Harris' N. W. corner of Survey 168, T P Block 3.

The manner in which the distances were proportioned for Sections 9 and 10, Block 183, have been previously mentioned. The S. line of section 6 Block 183 is fixed by the stone mounds found at its S. W. and S. E. corners and identified as the corners called for by A. N. Lea in his corrected field notes for this section.

The N. and S. distances of Sections 1 to 5, inclusive, Block 183, along the W. line of T P Block 3 were proportioned between Lea's identified S. E. corner, Survey 6, Block 183, and the point established by me on the W. boundary line of T P Block 3 for the S. E. corner of Block 183.

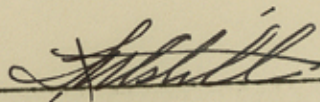
The N. and S. distances of Sections 1 to 5, inclusive, Block 183, along the East line of Block 122 were proportioned between Lea's S. W. corner of Survey 6, Block 183, and projected point established

by me for the S. E. corner of Block 122.

The map accompanying this report graphically illustrates the manner in which the blocks were constructed and the method of proportioning the distances between identified points for the interior sections. The map also shows original corners found and courses and distances for all sections in the blocks together with the amount of acreage. The location of the original corners and corners established by me for the sections are shown on the map in accordance with the symbol as reflected in the legend.

This report covering the survey truly represents a survey made by me on the ground and according to law. The limits, boundaries and corners with marks, both natural and artificial, are truly described in the report along with the accompanying plat and field notes just as I found them on the ground.

Very truly yours,



F. W. Estill, Licensed Land Surveyor,
Winkler County, Texas.

