

ROBERT S. DOD
SPECIAL STATE SURVEYOR

1995

ALPINE, TEXAS,

Mar. 30 1911

Hon. J. T. Robison
Commissioner Gen. Land Office
Austin, Texas.

Dear Sir,

I am today forwarding you corrected fieldnotes of resurvey of Block 180 T.C. Ry. Co. Pecos Co.

You may remember that my original report was returned for correction so as to make the East line of Greene's Resurvey of Block 10 the west line of Block 180.

You kindly reconsidered the matter at my request and finally instructed me that this construction of Block 180 was the proper one. I consulted Mr. Beattie, the present owner of certain surveys in Blk. 180 for whom the survey was made, and he requested me to correct the field notes in accordance with your decision, making the east line of Blk. 10 the west line of survey 180.

This correction I have made in the accompanying fieldnotes, which I think you will find in accordance with your original instructions for the survey.

I have made a note on the Plat stating that the line shown there as the east line of Blk. 10 has been adopted as the west line of 180 under your instructions, and have added a final Report on the resurvey stating that the earlier report was returned for corrections which were duly made.

The field notes were rewritten.

I should have attended to this matter earlier - but have been so occupied with the other reports that I could not get to it until now.

Kindly let me know at your leisure whether any further corrections will be necessary.

Respectfully

R. S. Dod

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APR 8 1911

Referred to Map

counter 33683

Final Report on Resurvey of
Block 180, Pecos Co. Texas

Hon. J. T. Robison
Commissioner Gen. Land Office
Austin, Texas

Dear Sir,

My report on Resurvey of Block 180 having been returned with instructions to make the east boundary line of the Resurvey of Blk 10 G.H. & S.A. Ry. Co. the West line of Blk 180, I have carried out those instructions and made out field notes to correspond, and have noted the change on the Plat of survey.

The corners in Blk 10 being already set up and bearings given which which were noted and reported in the former report, it was only necessary to change the calls for west corners in Block 180 to the calls for east corners in Blk. 10, and make the necessary change in distance and area, which changes you will find in the accompanying corrected field notes.

Respectfully

Alpine
Mar. 30th 1911

R. S. Dod
State Sur

Report of a Resurvey
of
Block 180 T.C.Ry.Co.Pecos Co.Texas.
by R.S.Dod, State Sur.

Object of Survey. To locate Block 180 on the ground according to it's field notes, to determine its position relative to adjacent surveys and to ascertain the extent of conflict, if any, with these surveys.

Authority for the Survey. Appointment by the Commissioner of the General Land Office of Texas, at the request of the owner of certain surveys in Block 180.

Instructions for the work. To rerun the lines of Block 180 according to its original fieldnotes. To rerun adjacent surveys according to their field notes and report the facts showing mutual relations on the ground.

Data for the Survey. Working sketch of Blk.180 and surrounding surveys furnished by the Gen.Land Office.

Blue print from the Gen Land Office of Mr.Greens resurvey of Blk.10 GH&SARyCo.

Blue print from the Gen.Land Office of a line connecting N.W.cor.sur1 Blk.B.with S.W.cor.sur.210 in Blk.3 T&PRy.Co.run by Mr.Lea Co.Sur.of Pecos Co.

Copies of original and resurvey fieldnotes of certain surveys in Blks 10,3,A,B,& 121, from the Gen.Land Office.

Patents to certain surveys in Blk.180, from the owner.

Working sketch and fieldnotes compiled from the records of the Surveyors Offices in Brewster and Pecos Co.s, by Harold Marsh Asst.State Sur.

Method of survey. Transit with Solar attachment was used to establish course.

Double Stadia red readings were used to establish distance, as described in detail in former reports.

Instrument, Stadia wires and rods carefully tested in camp on the ground under the prevailing conditions of the work, on a 300 vara base laid out with Transit and Tape.

Note. Part of the work was run with one transit and one set of rods, other parts run by another transit and other rods, as a check on possible instrumental error.

Course.

The final determination of the course of lines run was reached after a number of readings and observations had been taken extending through the survey, the results only are given here.

Calls for course in the field notes.

Block 10,	Original	11° E,	date	1875,	Resurvey	10° 10' E,	date	1889,
"	121,	"		11° 30' E,	"			1881,
"	A & B,	"		11° E,	"			1880,
"	3,	"		11° 30' E,	"			1873, Resurvey 11° 09' E, date 1886,
"	180,	"		11° 30' E,	"			1883,

Observed var.	Original brg.S.W.1, Blk.10	Aug. 1910,	10° 40' E
"	" Resurvey lines & brgs	" " "	10° 40' E
"	" Blk.121	none found,	
"	" Orig, brg, N.W.1, Blk.B	Aug. 1910,	10° 40' E
"	" Resur. Blk. 3, N.W.210	" " "	11° 16' E

True meridian by solar, average needle reading 11° 20' E

" " " north Star " " 11° 20' E

Variation adopted from evidence on the ground, for the lines of this survey 11° 40' E,

History of survey.

Starting Point.

Block 180 calls to begin at the N.W. corner of survey 310 in Block 10 GH&SARRCo. this call is dated Ap. 1883, six years before the resurvey of block 10 by Mr. Green.

To find the position of the original N.W. corner sur 310, I went to the original S.W. cor. sur. 1, which Mr. Green states that he found and identified on his resurvey. I found a rock mound which fitted the original call for Mitre Peak and the resurvey calls for Mitre Pk. and a cliff. But the call for the corner in Block 9 would require an increase in northing of the Blk 9 cor, of about six varas. The needle reading for the original call was 10° 40' E, for the resurvey calls 11° 26' E,

The only other corner marked in the original field notes is N.E. 114. This corner Mr. Green states he found and identified on his resurvey of Blk 10.

I looked for this corner and finding the Adobe house called for in the resurvey, ran out estimated distance for corner at 10° 10' as called for, and stopped about 60 varas west and south of a small rock pile under a fence.

The original calls for two "Conco" bushes as bearings, but we were unable to find out what a Conco bush was. Some 28 varas north west of this rock pile stood an "All-thorn" bush old and dead, but not marked as described by Mr. Green, who states that he found both bushes.

The original calls for an earth mound and pits, but the grass has been waded off, roots and all, all over that part of the country and the surface shows erosion to a depth of 10" to a foot, so any earth mound would have disappeared before this date.

A little north and west of this rock pile we located a point which satisfied the resurvey calls for the Adobe House and Mountain Peak, at a variation of 10°40'E.

We then went to the resurvey corner ~~114~~ N.W. 137, easily identified by a rock mound and bearings.

This corner was absolutely definite, and Mr. Green's field notes show that it was put in after he had identified the original corner of 114, as Mr. Green's resurvey showed great care and accuracy I considered this corner, put in while the original was known, to be a more accurate starting point than the neighborhood of the unidentified original earth mound called for at N.W. 114.

Hence we made this our starting point for location of N.W. 310.

My instructions stated that the resurvey from the original corner of 114 ~~xxxxxxx~~ east, was to be put in course and distance and I followed the same plan.

From N.W. 137 we ran east 3820 varas, and north 1900 varas reaching the resurvey corner ~~114~~ N.W. 200, bearings O.K.

Thence east	1905	varas	to	resur.cor.	N.E.200,	bearings	O.K.	var.	10°40'
"	"	1907	"	"	N.E.201,	"	"	"	"
"	"	1907	"	"	N.E.228,	"	"	"	"
Thence"	1905	"	"	"	N.E.227,	"	"	"	"
"	"	1909	"	"	N.W.310,	"	"	"	"

Total Easting 13353 varas, an excess in resurvey measurement of 53 vars.

We therefore placed the S.W. corner of sur. 5 in Blk 180, 13300 varas east and 1900 varas north of the ~~114~~ corner of 137 in Blk. 10, and 53 varas west of the resurvey corner N.W. 310 in Blk. 10.

From this point we ran north for the west line of Blk. 180,

North	1900	varas	and	put	in	N.W.cor.5,	resur.cor.311.	N9	1/2
								E	53
								N	19 1/2
"	1900	"	"	"	N.W.cor.6,	"	"	E	52.2
"	1900	"	"	"	N.W.cor.11,"	"	"	E	53
"	1900	"	"	"	N.W.cor.12,"	"	"	E	54
"	1900	"	"	"	N.W.cor.15,"	"	"	E	58
"	1900	"	"	"	N.W.cor.16,"	"	"	E	62.3
"	1900	"	"	"	N.W.cor.19,	no	corner	found.	

Returning to the N.W. corner sur. 11, as above established, we ran east one mile for N.E. 11, and east 526 varas for east line of Blk 180 as called for in field notes and patents.

Before continuing the east line of Blk 180, we had to locate west lines of Block 121 and Block A, to determine conflict.

Blocks A, B, C, & D, were put in by the same Surveyor at the same time, C begins on B, D begins on C, A was put in later than B and shows on map to begin on sur. 80 in B.

The field notes show three marked corners on the north lines of these Blocks. One at N.E. 49 in B, "an earth mound in a swage (?) drain, course S 62°W by a dagger". We went to the place where this corner should be measured from corners on the east, but could find no trace of it. There was a drain some 50 to 75 varas wide, cut up by drift and wash in places, and another drain south and east branching from the first. There was a fence running east and west across the first drain but no sign of the fences having found or marked any corner. Near this point, 5 miles and 46 varas west of old corner on the east, there was a short fence running south, but no sign or mark of any corner. The description of this corner is vague and indefinite and we could find no trace of it on the ground.

Another marked corner called for in the field notes is the N.W. cor. 1 in Block B. We went to a rock mound on a rocky ridge shown to us as having been known for years and recognized as the old rock mound set for the N.W.

cor. Sur 1 Blk. B.

The fieldnotes call for a 'rock mound on a rocky ridge', and this is the only rocky ridge for miles.

The field notes call for a monument on Rd. Mnt. which bears N 51° W 280 varas. The relative position of ridge, mountain, monument and corner are shown in sketch of survey. The reading from this rock mound to the monument was N 51° W. 277.5 varas, at a var. of 10° 40' E.

To further identify this corner we ran 1900 varas east where the third marked corner is called for. The call here is to the Monument N 86° W, and Antelope Mt. N 36° E, At 1900 varas we found a small rock mound under a fence, a little north of an east line at 10° 40' E.

The reading on the Monument was definite, but Antelope is a long flat-topped hill and even taking the north end gave no definite point of sight. This made it impossible to locate this corner exactly from its calls but as near as we could read them they placed the corner a little north and east of the small rock pile, but the bearings were sufficiently plain to show that the corner had been made near there and to confirm the corner west a mile as the N.W. corner sur 1 in Blk. B.

Finding no marked corners in the field notes of Blk. 121 and no trace of survey on the ground we consulted the original surveyor of the block, and learned that he had made a few rock mounds 'way east in 121' and had not taken any bearings, and he thought the rock mounds were 'likely gone!'

The intention shown on sketch and County map is evidently to make the south line of 121 the same as the North line of Blks A. B. C. & D. It calls to begin on D, which begins on C and that on B, and takes course and distance.

In the absence of any marks on the ground, the south line of 121 was run by course and distance west from the N.W. cor 1 in B, with the north line of A & B.

Running west (at 10° 40' E) from this N.W. cor sur 1 in Blk. B, we had 13 miles to run to reach the west line of A & 121, This was run by the transit, checked by the needle, and allowance made for curvature in that distance.

Running west at 5732 varas a stake and mound north of our line. At 7636 varas a rock mound south of line, At 9546 varas a fence, here should have been the corner in a "swage drain", not found as above noted. At 11439 varas a rock mound 20 varas north of our line. At 13344 varas a rock mound 21 varas north.

At 9 miles, or 17100 varas should be the N.E. cor. Blk. A, here we found a rock mound north 1 vara and west 51 varas. There is a fence running along from 20 to 40 varas north in places, and again pretty close to this line.

In the next mile we crossed this fence but it came back to us at two miles where it was on the line. At a point eleven miles from our starting point, by our measurement, we found a house 54 varas west and some 50 varas north of line and a well N.W. from the house.

The next mile ran with the fence to S.W. 35 in 121. by course and distance West from this point, at 942 varas we reached the line marked by course and distance from the west, as the east line of Blk. 180, On west at 1468 varas we reach the east line of sur 11 Blk. 180, at a point 275 varas south of its N.E. corner. On west 432 varas, 1900 in all, we reach the west line 121, and A at a point 1468 varas east of west line sur 11, in 180.

Near the point 432 varas west, and 275 varas south of N.E. cor 11, we found a large, old rock mound, 7 varas east and 28 varas north. There was a large cedar stake in it and the mound looked as though it had been made with some care. We thought it might be the original S.W. corner of Blk. 121, but on consulting the original surveyor, he said that he did not put that corner in, and did not know anything about the mound above described. We could get no information as to this corner.

As Blocks A & 121 are older than Blk. 180, we marked the intersection of the survey lines of Blk 180 with the west boundary lines of A & 121 as the eastern limit of 180.

We put in the N.E. cor. 11, in 180, 1468 varas east of its N.W. corner.

~~XXXXXXXXXXXXXXXXXXXX~~ We found an old rock mound 315 varas east on this line produced.

From N.E. 11, we ran south, at 275 varas marked the N.W. cor 4 in A. on at 1900 varas the S.E. cor. 11, from which a rock mound bears N 89° 40' E 382 varas

On south, at 275 varas S.W. cor 4 in A, inside a fence, 54 steps east from fence corner where it turns south. On south, at 1900 varas the S.E. cor 6 in 180. Here there is a rock mound under the fence, 29 steps west and 5 steps south.

On south at 1900 varas the S.E. cor. 5 in 180, about 1 vara east of a fence corner, and 492 varas west of the N.E. resurvey corner of sur 310 in Blk. 10. This gave a closing in easting. 53 varas on west of 310.

432 varas cut off by A,
7 varas excess in resurvey line.
492 actual measurement 492.

Returning to the N.E.cor 11, we ran north, at 1625 varas marked N.W.cor 38 #121 on 275 varas, 1900 varas in all, the N.E.cor 12.

Thence north at 1625 varas the N.W.cor.37 in 121, on 1900 varas, thence east 432 varas to the N.E.cor 15 in 180.

Thence east, at ~~432~~ 1468. varas turned south and ran 275 varas to N.E.37 in 121. Returning to line ran on east 432 varas, 1900 varas east of N.E.15 and marked S.E.cor 17 in east line Blk 180. From this corner ran north 737 varas and reach a point 25 varas east of the N.W.cor.sur.210 in Blk.3, T&PRyCo.as called for by the resurvey of that block. We found a rock mound, showing age, and the stumps of two catclaws standing course and distance called for. These stumps had been cut about ten inches from the ground, and were some 4" to 5" in dia. One had been cut recently the other some years ago. The field notes also call for two mountain peaks which fit this rock mound. Given the rock mound and the four bearings fitting, we considered this corner as absolutely identified. The needle reading on these bearings gave $11^{\circ}16'E$.

In order to further determine the relation of Blks 3 & 121 as above related, we returned to the point marked for the N.E.cor 37 which is 1012 vrs south and 462 west of N.W.210 in 3, and ran south, at 891 varas cross a fence 14 posts from the corner where it turns south, on at 1900 varas we are ~~2~~ 1 vrs south of a fence and find a rock mound for N.E.38, $N 69^{\circ}40'W 53$ varas.

Thence east along a fence, 1900 varas to the N.E.cor 35 in 121, north of the point reached on run west from N.W.1 in B, as above described.

On this line at a point 1597 varas east of our N.E.38, we found a rock mound.

In addition to the above closures we had a number of readings from various points in the survey, on Glass Peak. Mr. Green had used this peak as a bearing all along the line we ran through Blk 10, and as his work was carefully done and checked nicely on bearings, it gave us a base from the N.W.cor 200 to N, E. 310. We also had readings on this Pk. from N.W.15, S.E.17, S.E.38, S.E.5 and elsewhere. These triangles confirmed the rod and transit work. The calls are given on sketch and in field notes.

The extreme heat during the day and remarkably cool nights gave an excessive diurnal movement of the needle. The reading on a transit line north would run from $10^{\circ}48'$ in the early morning to $10^{\circ}30'$ at 2 o'clock swinging back $10^{\circ}40'$ to $45'$ in the late evening. The average reading would be about $10^{\circ}40'E$. We took our latitude at three points and also computed it from Alpine and made several solar readings and two observations of the north Star during the work. This gave the reading of true meridian as $11^{\circ}23'$ to $24'E$. This is very surprising in view of the fact that the true meridian at Alpine reads $10^{\circ}33'$ to $10^{\circ}37'E$. We were very careful as to adjustment of instrument and repeated the readings with the two transits.

Acreage.

If we are right in placing the west line of 180 53 varas west of the resurvey work in Blk.10, and making the west line of 121 & A the east line of Blk.180, then there is a conflict between 180 and Blks 121 & A, of 958 varas in westing, measured from original cor. in B.

This will wipe out surveys 1, 2, 3, 4, 7, and part of sur. 8, in 180, and cut into sur. 5, 6, 11, 12, and 15, reducing them as follows,

Sur. 5	will contain	494	acres
Sur. 6	"	494	"
Sur. 11	"	494	"
Sur. 12	"	494	"
Sur. 15	"	515	"
Sur. s 16, 17, 18, 19, 20,	"	640	"
Sur. 8	"	92.5	"

Respectfully submitted

Alpine Texas
Aug. 22 1910

R. L. Dod
R. L. Dod

100
PECOS COUNTY
SKETCH FILE NO 289

FILED JULY 17-1911.

(NOTE ATTACH TO MAP
OF SAME NUMBER.)

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