

1

Final Report on Resurvey of Block 341 T.C.Ry.Co.
Brewster and Presidio Counties ,Texas

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

Dear Sir,

I would respectfully submit the following final Report on Resurvey of Block 341 T.C.Ry.Co.

Preliminary surveys were made and Reports of the facts as found on the ground ,sent to the Gen.Land Office and instructions issued for the final resurvey of the sections in the Block.

It does not seem necessary to repeat the details of these runs already reported but merely to recall the principal facts necessary to the understanding of the final resurvey as found in this report and accompanying Plat and fieldnotes.

The Object of the ~~XXX~~ Resurvey.

This was to determine the true position of surveys in this block and their relation to the Rio Grande and adjacent blocks of land.

The Authority for the Resurvey ,was appointment as Special State Surveyor for this work and instructions for the Resurvey by the Hon. Commissioner of the Gen.Land Office of Texas.

The Method of Survey,has already been reported in detail,viz.Solar observation for courses and meridian,double Stadia readings for distance.

The Data for the work.

Working sketch of Block 341 from the Gen.Land Office,giving field notes of surveys,bearings of original corners,and meanders of the Rio Grande.

Field notes from County Surveyors Office Records in Presidio and Brewster Counties.

Field notes of Resurvey of Block 17 ,approved by the Gen.Land Office.

Field notes of Resurvey of Block G 12 under instructions from the Gen.Land Office.

Original field notes of survey 1 Block 16,from surveyors records of Brewster Co.

County Map of Brewster Co.from Gen.Land Office.

U.S.Topographic Map, Terlingua Sheet,covering the Block from the mouth of the Grand Canyon to a point on the Rio Grande several miles west of survey 33 in this block.

History of Resurvey.

Examination of Field notes showed that showed original bearings and marks called for at the S.E.corner of survey 32,at the S.E.& S.W.corners of survey 46,and a call for the line of Survey 1 in Block 16 which has an original bearing on the Grand canyon,easily identified.

The field notes showed that the river surveys in Block 341 were the earlier and that the other surveys were built up from them .

Actual survey located and identified the S.E.corner sur 32 by its bearing and relation to the river meanders which are peculiar.Details given in former report.

Also identified the S.W.and S.E.corners of sur.46,by their bearings, and the run from one to the other,as already reported.These corners are at the "shut up",the head of the Grand Canyon.It was stated to us that Mr. J.T.Gane placed these two rock mounds for the original surveyor of Blk.341 and went on down the Canyon in a boat,making a survey as he went.

The corner of sur.56 was found from the call for sur 1 Blk 16,the latter calling for a stake on the bank of the River N 30° E 75 varas from the west edge of the Canyon.

This gave four original corners along the River which would control the river surveys from S.E.32 to mouth of the Canyon.

A careful resurvey of the river showed that from S.W.33 to S.E.39 the meanders of the original survey fit the River,and the peculiar bends of the river showed that these lines must have been actually run,and made the River a natural object identified on the ground and controlling these surveys.This was reported and we were instructed to put these surveys in as called for ~~275~~ 950 varas wide and running north the distance called for from the river on their east lines and closing on the point of beginning. This was done and corners marked at S.E.36 near the Custom House at Lajitas, S.W.37 on the River,S.W.39 on the river and N.W.39 in a field near Lajitas.

The survey of the river further showed that from sur.39 and sur 46,the original meanders of the River would not close and could not be made to fit the actual course of the river on the ground,and that the actual distance east and west between these points was less than the easting called for in

the field notes by 654 varas. This being reported we were instructed to ~~xxx~~ to prorate this shortage among the surveys affected, giving each survey a width of 841 varas. This we did as shown in the field notes of the Resurvey, and giving each survey its distance north called for on the east line.

Survey 46 showed an actual distance between original corners, of 958.3 and was given northing as called for. The identification of these river corners was reported in detail in former report.

A survey was made along the Block line of ~~xxxxx~~ Block 17, then west ~~xxx~~ across block 341 to N.W. 39. As a check, a line was run from the N.W. cor 70 at N.E. corner 60 Blk G 12, south to the line of Blk 17, and west from S.W. 65 to S.W. 33, and a line from S.W. 98 to N.W. 39 and on to a point on the river due west and connected with the meander line already run. The details of these runs and calculations based on them were also reported.

This run showed that there was an excess of 167.3 varas in easting between the S.E. cor 46 and the S.E. cor 56, which facts being reported we were instructed to distribute this between surveys affected, which was done.

It being impossible to meander the actual river in the canyon without a boat, the meanders of the river could not be taken at the time of the survey but a line was projected from one corner to the other of each survey as shown in the field notes. A comparison of ~~xxxxxxxxxxxx~~ these lines with the original field notes shows a practical agreement, and they also agree closely in all but one point (south of sur 53) with the river as traced on the Topographic Map (The position of the River on the Topographic Map, I understand, was found by locating points with the Plane Table.) These facts were reported.

We were instructed to make the field notes for surveys 47 to 56 from the original field notes, extending the easting to cover the excess shown by our resurvey, which was done.

The lines and corners of Block 17 are definitely fixed on the ground by monuments of a resurvey made for the owners of the individual surveys and approved by the General Land Office.

The surveys in Block 341 adjacent to Blk. 17 call for lines and corners in Blk. 17. A survey showed, as already reported that Blk 17 was further east on the ground than its position relative to surveys in 341 as shown on the Map. This being reported we were instructed to hold to the calls for the line of Blk. 17 and increase distance where necessary to reach it. Consequently the surveys built up from Sur. 56 on the river along Blk. 17 are given the excess resulting from the increase in easting to reach lines of Blk. 17.

The square surveys in Block 341 built up from these surveys bordering on Blk. 17 are shown on the map and have calls in their field notes for the South line and corners on the south line of survey G 12.

A resurvey of G 12 had just been completed and a line run from these resurvey corners to the river showed that G 12 was 577 varas west of the position relative to these river surveys as shown on the County map. This being reported in detail we were instructed that the calls for corners on south line of G 12 should hold and surveys were made in accordance with that instruction as shown on Plat and in field notes accompanying this report.

A small excess in northing was also found between the River corner ~~xxx~~ at S.E. 46 and the south line G 12.

These facts being reported we were instructed to put in the square surveys by course and distance according to their calls from south line G 12 and to fill in the irregular surveys between them and the river as closely according to their calls and connections as facts would permit. This was done a plat of the work forwarded to the Gen. Land Office, approved and returned and the location of surveys thus reached adopted in this final survey.

Certain surveys in this Block lie on the Mesa de Anguilla which borders the Grand Canyon. This Mesa is bordered by a lime bluff almost perpendicular and from 1200 to 1600 feet high. Access to the Mesa can be had at only two points and these trails are passable only for a man on foot or a burro.

The east edge of this Mesa runs from the mouth of the Canyon to a point near the S.E. cor sur 76, thence in an irregular line to a point near the S.W. corner 93, thence to the S.W. cor 46 on the river at the head of the canyon, and then down the canyon.

We went up on the Mesa and found it absolutely dry, impossible at any point to reach the river, and the surface exceedingly rough and broken. It would have taken some time to have carried the lines of survey across this Mesa and water feed and provisions would have had to be packed up for the work, and the land was practically valueless. This being reported we were instructed that it would not be necessary to run the lines across the Mesa, as corners on the other surveys were sufficient to enable one to trace the Mesa lines in accordance with the balance of this resurvey if it were at any time necessary. The field notes of the Mesa surveys were easily figured from the lines run around it. Which was done.

The above recapitulation of facts developed in the work of resurvey together with the reports already forwarded will, I think, give all the

data necessary for a full presentment of the conditions on which this re-
survey is based.

Respectfully

State sur.

Alpine, Mar. 24 1911

Received of Mr. C. M. ...

of 24 of March

Description: for 2 M. ... of 1/2 ...

Alpine, Mar. 24 1911

T. H. Miller, County

Recorder

for

...

...

...

C²

Counter 12112

Counter 15714

C 3

1571/15715

County 15715

Sketch File No. S-A-1

(South) Brewster County

R. S. Dod's Report.

Re. Surrey Blk. 34, T. C. Ry. Co.

Dated, March 24, 1911.

J. H. Walker, Comm.

Filed July 29, 1911.
File Clerk

Descriptive: In S.W. Corner of Map
of 5 1/2 of County.

See Sk. File No. A. for sketch

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