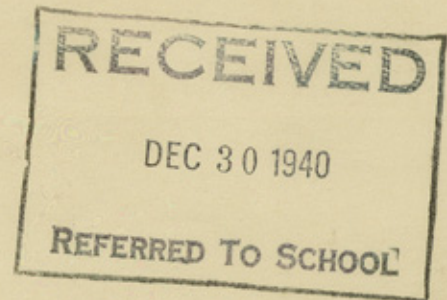


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R. W. BAKER, C. E.  
509 PETROLEUM BUILDING  
P. O. BOX NO. 708  
BIG SPRING, TEXAS

Dec. 26, 1940



Hon. Bascom Giles, Commissioner,  
The General Land Office,  
Austin, Texas.

Dear Sir:

Enclosed herewith are corrected Field Notes for Sections #32-34-40-46-Block #31-Tsp. 1-South, T. & P. R. R. Surveys, and Sections # 82-100-108-~~110~~-Block #29- W. & N. W. Surveys, Howard County, Texas.

Inasmuch as the survey of the above listed Sections in T. & P., Blk-31-T-1-S., made necessary a resurvey of practically the entire South half of the Block, and since the resulting construction deviates considerably from the original Field Notes, a brief report of the survey together with a copy of the plat showing, in red underline, the traverses actually run on the ground, is herewith submitted for your consideration.

Inasmuch as Mrs. Roberts owns all of Sections # 31-32-33-34-39-40-41-42-44-45-46, none of the School Sections of which, with the exception of Section # 44, have been patented, a construction has been adopted which conforms in every respect with previously Patented Sections # 26-28-30 on the North and as closely as is possible with Sections #36-38-48 and # 44 on the East and Southwest at the same time providing for common corners for all sections.

Since there is a considerable excess in a North and South direction in this Block, it is obvious that such a construction places the same proportionate excess in the T. & P. as in the adjoining school sections. Accordingly, Corrected Field Notes for Sections # 31-33-39-41-45 have been prepared and will be forwarded by Mrs. Roberts with an application for the purchase of this excess as provided by Section # 4 of House Bill # 9. With respect to the surveys in Block # 29, W. & N. W. It was found necessary, in order to reestablish all corners correctly, to survey all adjoining sections as indicated on the plat.

In every line measured a small amount of excess was found. For the most part these differences from the Field Notes of the G. M. Williams resurvey of 1905 were small. In every case, however, they were checked by careful closures the angular error of which was held to a maximum of thirty seconds and the linear error to 1/3000. Among other differences it will be noted that the lines of the Williams resurvey, as determined by the position of undisturbed monuments on the ground, lack two minutes of being at right angles to each other as indicated by Field Notes. You will also note that the bearing of the North and South lines differs from that given by Williams by one minute. This is probably due to the fact that Williams point of origin was at some distance. The bearings used in this survey, are, however, true for the local area. They were determined by observation on Polaris at the S. W. Corner of Section # 100 and they were carried throughout this Survey. As a result, the bearings of the West line of Blk-31-1-S., and the South line of Sections # 28-29-30 differ from those shown on my plat of



1934-35, by forty seven minutes, the former having been adopted for that job from previous surveys of record. This survey was begun at the original S. E. Corner of Section # 48-B-31-1-S., and the line between Block 31-T-1-S. and Block 29, W. & N. W. run westward as far as the N. W. Corner of Section # 102, Block 29 which was found in place. Such original corners of both surveys as remained in place between the S. E. of # 48-B-31-1-S., and the N. W. of # 82-Block 29, W. & N. W. were found to be on line between those two points. Likewise between the N. W. of # 82 and N. W. of # 102, Block 29, such corners as remained in place were found to be on a line between those two points, an angle of six minutes being made at the N. W. of # 82.

From the N. W. of # 101 the W. line of # 101-108-129 was then run to the S. W. of # 129, Williams Corners being found at the latter point and at the S. W. of # 101.

From the S. W. of # 101 a line was then run to the S. W. of # 97, Williams Corner being found at the latter point and at the S. W. of # 100 at which point Polaris was observed and the bearings of all lines adjusted to conform. A marked set stone was also found in place at S. E. of # 99 and while it was found to be correct it is not thought to be a Williams Corner as Field Notes do not call for a marked stone at that point.

From the latter corner a line was then run North to establish the S. E. of # 82 and extended to a closure at the N. E. of # 82.

From the S. E. of # 100 a line was then run South to establish the S. E. of # 110 and a tie made to the S. E. Corner of # 127.

From the S. W. of # 100 a line was then run North to the N. W. of # 100 and a closure at N. E. of # 80, and from the S. W. of # 100 a line was run South to the S. E. of # 108.

From the S. E. of # 110 a closing line was then run West to the S. W. of # 108 and from the S. E. of # 82 a closing line was run West to the N. W. of # 100. From the S. E. of # 82 a tie was also made to Williams Corner at N. W. of # 97, which completed all work in Block 29-W. & N. W.

With respect to the Surveys in Block 31-Tsp-1-South the first thing done was to reestablish all Patent Corners on the South line of Sections # 28-29-30 as surveyed by me in 1934, and those of Section # 25-26 as surveyed by V. V. Strahan in 1939, all of the above corners except the S. W. of # 28 having been destroyed by the activities of fence builders. Particularly necessary being the S. W. Corner of # 26 which would also be the N. E. Corner of Section # 34 of this Survey.

It was also necessary to find or reestablish as correctly as possible the corners of previously patented Sections # 36-38-48 in order that the S. E. of # 34 and N. E. of # 46 be brought into agreement with them.

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To this end a line was run from the S. E. of # 48 North to the N. E. of # 25. Old stone mounds being found at the N. E. of # 48, N. E. of # 37, and N. E. of # 36, which, from references were identified and accepted either as original or Patent Corners of the respective sections.

From the N. E. of # 48 a line was then run West to the N. W. of # 48 at which point both the S. E. of # 38 and N. W. of # 48 were found as shown on the plat. From the N. E. of # 37 a line was then run West to the S. W. of # 36 at which point nothing was found but a scattered pile of stones which was, however, accepted as the S. E. of # 36.

Inasmuch as the Survey of Section # 26 is tied to old stone mounds at the N. E. & S. E. of # 25, and inasmuch as there are three old stone mounds at the N. E. of # 25, it became necessary, in order to know which stone mound the Patent Field Notes of Section # 26 referred to, to pick up the North line of # 26, as defined by the three stone mounds at the N. W., the N. 1/2 mile corner and N. E. Corner of the Section, and run it Eastward to an intersection at the N. E. of # 25. This was done and was found to agree with the old stone mound in fence corner previously accepted as the N. E. of # 25.

In this connection your attention is called to the fact that from the most Southeasterly of the three stone mounds at the N. E. of # 25 a bearing on Signal Mountain, and a bearing and distance to a cedar Bush is obtained which closely agrees with the Original Field Notes. This old stone mound, which in fact consists of four or five small pieces of sandstone loosely embedded on the West slope of a sandy hill, is so far out of line with recognized property lines and fences which have been in existence for some forty years, that it is not now, nor ever has been, insofar as I am able to ascertain, been considered as the N. E. of # 25. Moreover, the cedar bush referred is comparatively a young shrub with no evidences of stump or limb growth to warrant the assumption that it was four inches in diameter in 1876.

From the N. E. and N. W. Corners of # 26 lines parallel with the East line of Section # 25 were then run Southward and the S. E. and S. W. Corners of Section # 26 established.

From the S. W. of # 26 a line was then run Westward to the S. W. Corner of Section # 30-Blk-31-1-S. and from that point Southward to a closure on the previously found original S. W. Corner of Section # 43.

From the previously found or established Corners on the South line of the Block straight lines were then run to the previously established corners along the South line of Sections # 30-29-28-27, all corners being set in by traverse from the corners on the South line of the Block, closures being made Eastward and Westward on all Section lines.

If any changes or corrections are found necessary, please communicate with me direct, otherwise please prepare such statements as Mrs. Roberts may request.

Yours very truly,

R. W. Baker, Licensed State Land Surveyor.

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Sketch File No. 14

HOWARD County  
Report by R.W. Baker  
See Rolled Sk. No 10

Filed 12-30 19340  
Bascom Giles Com'r

French  
File Clerk

Descriptive: Surveys in Blk.  
31, Tsp 1-S, T. & P. R.R. Co. and  
Blk. 29 W. & N.W.