

Report of a Survey
made to determine the north line of Block 349,
the south line of Nolan Co. School land No. 3,
Block G 7 D. & W.R.R. Co. and adjacent lands,
in Presidio County Texas
by R.S. Dod
State Surveyor.

Object of the Survey.

To determine on the ground the position of the south line of Nolan Co. School land No. 3, Surveys 533 & 534 T.C. Ry. Co. Sur ~~44~~ 341 K.W.I. Co. Sur 461 & 462 G.C. & S.F. Ry. Co. Surveys 1, 2, & 3, D. & W.R.R. Co. Surveys 17, 19, 20, 21, 23, 26, 27, 28, & 29, Block 349 Tex. Mex. Ry. Co. and to ascertain the boundaries and area of any unsurveyed school land, if any, surrounded by these surveys.

Authority for the Survey.

A letter of instructions from the Hon. Commissioner of the General Land Office, dated May 11, 1917, issued to me as State Surveyor, at the request of Mrs. Lula Collie, of Marfa, Tex.

Data for the Survey.

A working sketch covering the lands in question.
A sketch drawn to scale of Topographic U.S. Map of the region.
A copy of sketch of these surveys by H.B. Tarver Dep. Sur. Presidio Co. showing connecting lines run, also field notes of these lines as run.

Field notes of the Lula Collie survey No. 1
Official Map of that part of Presidio County covering these lands.
U.S. Top. Map, Shafter, Terlingua, and Polvo sheets,
Plat and report of former survey made by me, of connection between Block 14 G.H. & S.A. Ry. Co. and sur. 503, 480, & 512.

Course.

There was considerable local attraction and variation in reading of the needle in the Bofecillos Mountains, considerable black sand was noticed in the drains, which would partly account for it. Extreme difference in front and back reading between same points 500 varas apart was $1^{\circ}30'$.

Along the river the needle was steady, and $11^{\circ}35'$ was found to apparently fit the old lines of river surveys as marked by old rock mounds. This agreed with Mr. Tarver's readings at several points, and was continued through the survey. The line was run by transit when the course had been established, but the variation was so constant that the needle was read at each station.

Distance was measured by double rod stadia method. Readings were made on prominent peaks and objects along the travers run, several readings on the same point from various stations, as a check. We had hoped to be able to check on the topographic work and monuments, but no monuments were seen on any of the mountains and the prominent points selected for our checks did not appear on the topographic map. The canyons in the Bofecillos country are almost perpendicular cuts, very deep and in solid rock, but few of them are shown on the map. The characteristic of the mountains are the steep slopes and high altitudes, many peaks being almost inaccessible, some sloping to an almost perfect cone. None of these features are given in the map except in a very general way so that we found it useless as a check, that is the Polvo sheet. The location of trails and ranches is incorrect as given on Polvo Sht.

Beginning Point.

On looking over the field notes of Block 349, it appears that no marked corners are called for in any of the surveys. The Block calls to begin at the N.E. cor sur 4 Blk G 8, and takes course and distance from this point, though it calls for and runs around the upper part of surveys 557, 558, which have a marked corner at N.E. 557 which can be identified as the original corner and old bearing.

Taking the N.E. 4 G. 8 as the beginning call, and looking over the field notes of Blk G 8, we find it was put in by J.T. Gano in Sep. 81, and calls for no marked corners of its own, but begins at the S.E. cor of sur 28, a pre-emption survey on the Rio Grande in the name of Jose M. Barilla. Survey 28 by its field notes calls to begin at a bunch of willows on the river from which a stake, the S.E. cor of preemption sur 27 bears N 52° W 5763 varas. On examining the river on the south line of the Barilla survey it was found to have eroded the east bank and moved considerably north east, cutting away all the valley up to the rock bluff so there was no hope of finding the bunch of willows. It seemed essential to determine the original location of this S.W. cor sur 28 as the whole position of the large Block 349 depended on it.

The river surveys above 28 are principally preemption surveys and call to start one on the other but no marked corners are given until you reach sur No. 9 which calls for a Ctwd. All these surveys were put in at the same time by the County Surveyor, in Dec 72. I found that some of the old residents had rock mounds on their lines which they claimed were original mounds.

At Polvo, Matteo Carasco, the original preemptor of survey 15, I believe, showed me a large old rock mound about 500 varas from the river, which he said was an old corner on his east line. He also showed me another old mound on the river bank which he said was his original S.E. corner. On testing the line between these two mounds I found it to run N 40° E at 11° 35' var. Carasco was absolutely certain as to these two mounds and impressed me as being reliable. I ran up the river from the upper mound N 50° W 100 and then N 23° W 2464, Here I was shown another old rock set in the ground supposed to be on the east line of sur 11 and a rock mound on the west line, but the distance from the Carasco corner N 50° W was 89 varas short. Running on N 50° W 1425 we reached a point 14 varas N 50° W from a fence which was claimed as the ~~east~~ line of sur 7, run from the river, but the old ctwd was gone.

Returning to S.E. 15 (Carasco corner) I connected with the Boundary Commission Monument 37, which stands about 10 feet from the north, or northwest front of Alvarado's store, and found it to be N 49° E 170, and S 50° E 255, from Carasco's S.E. 15. On looking at Mr. Tarver's field notes I find that he says he connected with this Mon. 37 and found it ten varas from the store. He states that the S.E. corner of sur 15, as shown to him, is N 50° W 19, and S 40° W 173 from the monument. I could not retrace this call as I would have had to run through the store and did not have space for distance to river. This monument is a concrete, truncated pyramid, about 14" high and as it was conveniently located and a permanent and unmistakable object we used it as a reference point for this survey.

We then ran down the river, passing Mon 38, on at a point 4112.7 south and 3094.7 east from Mon. 37 we reached a point near a small house along side the road from which point the centre of the town of Mulatta, across the river, bears S 52° W. Mr. Tarver gives this reading on Mulatta, from near this house, but his traverse puts this point S 4361.6 south and 4397.6 east from Mon. 37.

I call attention to this as there appears a very serious discrepancy between his easting to the Barilla survey and our measurement to the same point.

We ran on as shown in field notes of this survey, to a point 7190.4 south and 8691. east from Mon. 37 and here placed a reference mound.

As shown on sketch, a line S 40° W from this point just edges the west bluff of Barilla canyon. The old Ramirez house, stands S 40° W 135 varas, this line just touching the west side. An old adobe ruin stands S 24° 30' E 207 varas.

This was said to be the Barilla house. Several old Mexicans living around near by came to the camp here and all said that the west line of Barilla's survey ran along the line or edge of the bluff. We found it 380 varas along this line to the present river bank, but as stated above the river has changed its course and eaten into the survey. A broad bottom lies beyond the present channel, and the former channel might have been anywhere in a half to 3/4 mile to the south. The old Mexicans said the corner was across the river now.

This canyon lies between a lone Mt. on the east and the high bluff on the west and is some 300 varas wide and runs N.E. over comparatively smooth country till it reaches the foot of a large high mountain some 2 miles N.E.

West of the west line as above located is all rough land to the river and back north some distance. When the river was back south there would have been a nice valley of bottom land on this tract. The original preemptor would not have gone west of the bluff as that would take only rough land, he would not have gone far east as to come off the bluff would cut off some smooth land on the west and give more rough land on the east. Consequently, the facts on the ground, and the statements of the old Mexicans familiar with the old preemption lead me to believe that the west bluff of the canyon did form the old west line of 28.

Mr. Tarver located a corner at a bunch of willows, giving course and distance from the Ramirez house, but this would cut off the better part of the canyon land and throw the bulk of the survey on the lone Mt. and almost cut the old adobe off the tract. There are some 20 acres of land round the old house that could be cultivated. Mr. Tarver also calls for the corner of an old stone house, we followed his course and distance and found that the wall he saw was not a house but a round rock hog pen at the head of a little draw.

The above facts seemed to justify placing the west line along the bluff, but that did not place the S.W. corner on the line.

In the absence of any marked corners we figured the field note calls from Polvo at Carasco's corner and found they would place the corner some 320 varas from our reference mound and would not reach the river even in its present position. Also the call from 24 to 25 differs from the calls given in sur 43 and 44 by 118 varas, also we had a shortage above Polvo and our distance from Polvo down the river would not reach our bluff.

Again we tried the call in 28 for the S.E. cor 27. Locating 27 from Polvo but it is only some 3000 varas west to 27 and the call is 5700. Supposing a possible mistake in figures and that 24 was meant we find 24 about 5667 west the call being 5763, but it would place the corner some 1360 below where the field notes from Polvo would place it, besides we had no right to change the call as given.

We find that J.T.Gano the original surveyor of Blk G 8, ran a traverse from the S.W. corner sur 28 to the north corner of sur 577, which corner has a call for the creek and a Ctwd bearing given in its field notes by the original surveyor, Dan Buckley in 1880,

Unfortunately Ganos traverse will not check with the resultant call as he gives it.

We ran from the S.W. cor 28, placing it on the line along the bluff and 533 varas S 40°W from our reference mound, to the N.E. corner 577, the field notes of this run are given below, and it is platted on the sketch.

We found a rock mound on a large rock, (solid outcrop) \approx 10 varas west of the creek and found the old bearing tree, some 40" in dia. dead on one side, the westside, and broken off about 12' from the ground. It stands just at the east edge of the creek, below it about 300 yards on the west side of the creek stands the old house. The water breaks out just above the house.

The trail from the Barilla canyon to the Rancherias is the steepest and roughest I have ever ridden over, but the ridges gave good stations and in one place we got in a triangle of some 1500 varas that helped out.

Our run places the N.E. corner of sur 557 east 9525.5 and north 2747

Gano's trverse, changing his last call from west, which would be running right away from the point he was trying to reach, and would take him over impassable country, to east, gives, ~~5000~~ East 8190. and N 2799.

his call N 73°20'E gives E. 10758. N 3220.

Dan Buckley's call, moved to S.W. 28, E. 10811 N 3115.

Ganos call and Buckley's call were disregarded as being altogether too far from facts. We cant move the west line of 28, and we cant move the old corner of 577, and there is no margin for any serious error in our measurement with the double checks we had all through.

To test Gano's actual run we then platted his traverse, (some of the principal points are platted on the map,) and compared it with the topography of the country.

His first run north east is almost identical with ours, except that he went on up the valley nearer the foot of the mountain before crossing the ridge. Where we turn nearly south is a point on a back bone in a gap, and is almost the only passable point. Where he turns north, near where we set a flag he follows a trail which we cut across. We ran a base along a ridge north from where our traverse crosses west line of 4 G.8, just north of this is a canyon or gap about where Gano shows to have run. From this point of our line on west line 4 G8, our line ran over a mesa to about the east line of \approx 1 Blk 349, from this point on to near the N.W. cor 557 we crossed several small canyons to a high back bone on west side of a deep canyon near N.W. 557. We then crossed another high back bone where we cross east line of 6 B.349. We could have turned northward at NW 577 and run some 500 varas into a canyon which the trail follows, and which runs eastward and round our ridge set on west line 6. This is the line we rode, but for our rod reading the ridge was better than the valley.

Ganos last call N.W. would be an impossible one. changed to N.E. it is possible, but if you move this call to the Rancherias corner and run it from there S.W. it will be the natural route with a chain, nearly parallel our line and supply a missing call from that point to his preceeding call and his run is over the only practicable route, and would fit the facts as found.

I do not think this is mere speculation. We know Gano went through. There is a limit to the possible way of getting through. His run is a practical one up to a certain point. There it goes astray and fails to reach the corner.

distance is lacking, a call must have been left out. If the nature of the ~~gr~~ ground shows what that course must have been, I think it is reasonable to allow for it.

Another point is that in running N 40°E from the S.W. corner 28 as we place it, will just reach the foot of the mountain. We ran a little east and passed this point of the mountain and set our flag on the east foot where the plat shows we turned east.

On looking over the ground, listening to what the old Mexicans had to say, taking the Gano run into consideration, I placed the S.W. corner of 28 in the present river, 533 varas S 40°W from our reference mound, as the nearest approximation to its original position that we could make with the data and facts at hand, and figured the position of N.E. 4 G8, and the lines and corners of surveys in Blk 349 from this point.

The only other method I could see, would be to drop the call for N.E. 4 G8 as too indefinite and ~~fix~~ locate surveys in 349 from their calls for 557 a definite fixed point.

Beginning point for Nolan Co. School Land.

On looking over the field notes of No. 2 & 4, we find that the N.E. cor 4 calls a marked corner with definite bearings, and that this is the only call for a marked corner.

It was necessary to connect the surveys in Blk 349 with this Nolan Co. corner, Three routes were possible, one from the N.E. 557 up the canyon to N.W. 512 on to Blk 14 and then west to Nolan Co. Land. But as there was no grass we would have to take our camp round by Torneros creek and the Terlingua road.

Another route would be from Polvo to the mouth of Bofecillos canyon and on up the canyon. But our feed would have to go round by the Terlingua road.

We decided that the Torneros creek route would, under the circumstances, be the better and quicker route, and would enable us to check on points of Mr. Tarvers survey as he took this route.

Taking up our line at the point marked on the west line of survey 8 J. Bustillos, as above related we ran north to Mon. 35, as shown by field notes attached.

(Note. We found Mon 36 on the river road but it was too far south of our line for us to note it as we passed. And a mile or more above the Barilla survey we passed another Monument, probably 39, along side the road as we drove back to Polvo. We had not noted it as we ran the line. These Monuments would be a great help in the River work if we could get their Lat. & Long. or relative position from Maj. Follett.)

From a point 130 varas S 40° W from N.W. 8 we got a reading on Mr. Seays Peak which gives his connection with Mitchel Co. School land and found it tallied with his call. I had been to his N.E. cor 14 on a previous survey and checked its location from the Peak.

Mon. 35 is on the south side of the road about 300 varas from the river. A small draw runs by it to the river, and the Polvo ditch runs between the Mon. and the river. The two hills shown, and mouth of Bofacillos should show on the Top. Map.

At a point N 10542.4 and W. 1009.8 from Mon. 37 we found an old rock mound with a rock recently marked "MC 4 A W" standing S 89° E 32 from point on our line.

On north, see field notes, to a point in Torneros creek which is N. 14450.0 & W. 1019.6 from Mon. 37, a little east of the road crossing.

At this point Carters Nose, a small pointed peak standing alone, and shown me by Mr. Barnett, who was with Mr. Tarver at that point, as the Peak so named by Mr. Tarver, bears N 87° E. Mr. Tarvers field notes read S 87° E (probably error in copying.)

At a point N. 14588 E 2800 we found a large rock mound on a ledge of rock, a little north of our line. The mound was unmarked, but looked old.

Note. Plating this with Seays location of the S.W. cor of Mitchel Co. No. 4 it fits fairly well for the N.E. 4. This would cause a conflict in easting of about a mile with the Nolan Co. No. 4 as determined by its own corner later on. Both were put in by Mr. Thompson. He calls for N S.W. cor 23 Blk 313 as starting point or connection for the Nolan Co. Land. His Mitchel Co survey Starts at the Alamita. You may remember that in a survey made to locate the town site of the Orient some years ago, it was found that Mr. Thompson, in his first survey west from 313 had an excess of about one mile, ~~which~~ in westing which was afterward corrected in some of his surveys. The Seay position of Mitchel Co 4 fits fairly with the Top. Map Shafter sheet brought down from the Alamo, at the old Hernandez preemption.

On eastward at a point on east edge of draw, N 13948.8 and E. 3941.0 we were about 150 varas east of Comba Spring, so called in Mr. Tarvers field notes.

From this point we ran SE to N.E. cor Nolan Co. No. 4 at a point N 12373.5 E. 7104.4 from Mon 37. *see SK. File 47, page 2 by R.L. Dod*

We found a rock mound at foot of a high Mt. 155 varas east of road. In the mound we found a small rusty tin can filled with small rocks.

The sharp Peak in the Sierra Rico is a conical Pk. Easily distinguished by the call, as there is no similar Pk in that general direction. The Sentinel rock is well named. It is a very striking object, a boulder half way down the west slope of a mountain, standing erect and resembling the figure of a man.

These two points stood as called for in the field notes with a needle reading of 12° E var. But as related above the needle was shifting all along this line through the mountains. As follows, on returning to point in the road, S 37° E 327 bck 37° 30', S 35° 20' E 246 bck 35° 30', S 34° 30' E 440 bck O.K. S 9° E 486 el. 4°, bck 9° 30'. &c.

Instrument, Transit line and needle all in adjustment at any one point.

This N.E. cor 4 is the beginning point for the Nolan Co Land and no other marked corner is called for in the field notes. It is unmistakable.

On south from this point at a point N 8462.1 E. 8745.2 from Mon 37 we found a very large old rock mound said by Mr. Tarver to be an original corner of sur 533.

To test it we ran S 33° 30' E 515 varas to a large Ctwd on north bank of Bofecillos canyon. This was the nearest point on the creek, it runs SW, the N.E. cor calls Willow near spring S 11° W 440. There was running water at the

Cottonwood and above and below but no willow, and the distance and course were not as called for and to take a course S 11°W would have increased the distance materially. The N.W. cor 533 calls for a rock mound, thence S 4°W at 600 a rock mound on a big boulder in the creek. The distance to the creek was far in excess of 600 at a course of S 4°W, and it was hopeless to distinguish any particular rock pile or boulder unmarked, where every foot was solid rock bed and an endless confusion of boulders and rock piles. As shown on plat, when we found the N.E. cor 341, this large rock mound was seen to be too far east and too far north for the N.W. cor 533.

We ran on eastward (see field notes) to a large neat rock mound which Mr. Tarver had shown Barnett as the N.W. cor 341. This survey was put in by Geo. Brooks. From this rock mound S 27°30'W 159 varas lay a willow tree, it was dead and the bark had rotted off, it had been blown over by a wind that tore up several cottonwoods across the creek and two other willows close at hand.

In the creek bed was water, and it broke out just above the dead willows.

This spot is an old camping place on the Terlingua Polvo road and is known as Punta del Agua de Bofecillos, or Bofecillos spring.

310 varas ~~xxxxxx~~ N 3°15'E from this rock mound we found another rock mound which corresponds closely with the position given N.E. 533 and one of the dead willows fits closely the call for willow bearing, and the distance is about right.

These willows were the only ones of any size that we noted along this part of the creek. These corners are in a comparatively level valley, and the mound 310 varas north is nearly at the foot of the mountain. We saw no water above this water above described.

We could see the N.E. cor 341 from the N.W. corner as above described, the line ran over level country and this mile was chained S 86°E 1910 vrs to a rock mound.

On N.E. (see field notes) we reached a rock mound on N side of creek with a large Ctwd marked a long time ago, so that the marks were simply swellings in the bark, with an axe mark or two left, X, standing S 47°E 76 varas, as called for at N.W. 461. This corner was unmistakable.

We crossed ~~the~~ several small draws in the flat before reaching this point and I failed to note which was the main chanel. There was no water near this corner, but a large grove of cottonwood and some 500 varas above there was running water in the creek. This corner is N. 7404 and E. 14079.7 from M. 37.

We ran on eastward (see field notes) to locate surveys in Blk G 7, this Block ties on to Blk 14, and the nearest corner of the Reavis resurvey of Blk 14, was found to be S.E. cor of 7, which is one mile south of the original S.E. cor sur. 1 same Blk.

We found this corner, a pile of rock with one rock mkd "S E 7". This was a rock about 18" long, 8" wide, and 6" thick and had broken across between the E and the 7. The corner and markings resembled the other Reavis corners I have seen in this Block. This corner is N 6358. and E 20236 from Mon. 37.

The D. & W. G7 surveys would be put in course and distance from this corner as I understand the fieldnotes.

On comparing our run from the large rock mound said by Mr. Tarver to be an original cor 533, to S.E. 7 I find we ran E 11491. and S 2104

Mr. Tarvers traverse between these is 11434. " S 1655

I have sketched in a run which we made and reported from N.W. cor 23 Blk. 14 to original N.E. 503, and on by course and distance to N.W. 512. This is introduced simply to show that we can not depend on the connections called for by the old surveys in this rough country.

The boundaries of the Lula Collie tract are fixed by the lines of the surrounding older surveys, the fixed points of which we have shown above. The N.E. corner of sur. 637 G.C. & S.F. was not found, but as it was put in by the same surveyor, it is plated from its call for the N.W. cor 533.

The field notes of the Lula Collie as based on the above survey and its contents under these boundaries is attached to this report.

Respectfully submitted,

W. D. Dad
State Sur.

Alpine Texas
Sep 15 1917

Boundaries and Area of a parcel of unsurveyed School Land
as determined by this survey.

Beginning at the
N.E.cor. 17 Blk 14

	N.	S.	E.	W.	DMD	Area	Area
East 347			347.0		347.0		
North 901.8	901.7	385.7			694.0		624779.8
S 68°W 1028.6		857.7		953.5	259.5		100089.1
N 22°W 3419.	3171.0			1280.3	2493.3	7906254.3	
South 626.2		626.2			3773.6		2363027.3
N 22°W 1841.3	1706.6			689.6	4463.2	7616897.1	
S 68°W 1479.3		554.0		1371.5	6524.3		3614446.2
S 4°W 959.7		957.3		66.8	7962.6		7572597.0
S 22°E 1919.5		1779.4	719.4		7310.3		13007947.8
West 2756				2756.0	9347.2		
S 4°W 368		367.0		25.6	12128.8		4451269.6
N 86°W 1900	132.4			1895.3	14049.7	1860180.3	
N 4°E 3416	3407.0		238.3		15706.7	53512726.9	
N 86°W 1727	120.4			1722.7	17191.1	2069808.4	
S 4°W 1418		1415.0		98.8	19012.6		27902829.0
East 570			570.0		18541.4		
South 1512		1512.0			17971.4		27172756.8
N 82°W 676	93.8			669.2	18640.6	1748487.3	
S 4°W 469		467.5		32.5	19342.3		9042525.2
West 1100				1100.0	20474.8		
S 8°W 1279.3		1266.5		178.3	21753.1		27560300.1
S 82°E 850		118.2	842.0		21089.4		2492769.0
S 8°W 1900		1881.0		264.1	20511.5		38582131.5
S 82°E 1900		264.1	1881.0		18894.6		4989963.8
N 8°E 2083	2062.2		289.5		16724.1	34488438.0	
East 2776			2776.0		13658.6		
S 4°W 494		492.7		34.8	10917.4		5379003.0
S 86°E 1900		132.5	1895.5		9056.7		1200012.8
N 4°E 626	624.0		43.6		7117.6	4441382.4	
East 3537			3537.0		3537.0		
	12219.1	12219.1	13139.0	13139.0		113644174.7	176056448.
							113644174.
							2 62412274.
						square varas	31206137.
						Acres	5527.37

See later notes showing area
of 5439½ acres

10-29-17 G.W.P.

counter 34564

LC 4 1/2

Traverse from Pulvo to Rancherías,
Beginning at the S.E. cor of sur 15, on the Rio Grande at Pulvo, as identified
by Matteo Carasco

Thence N 40° E 170 varas

" S 50° E 255 varas to International Boundary Monument RPIBC 37 on north
side of Alvarado's store (Tarvers call N 40° E 173, S 50° E 19 to same Mon. 37)

Thence

N 25° E 144.5
S 71° 40' E 911.
S 19° 18' E 515.
S 1° 30' W 830.
S 7° E ~~522~~ 386
S 36° 35' E 231.
S 22° 25' E 962. Mon. 38 S 57° 30' W 23.
S 80° E 345.5
S 51° 10' E 452.
S 44° 30' E 466.
S 43° 10' E 1684. near house

Mulatta S 52° W

S 45° E 451.
S 76° 30' E 470.
S 61° 45' E 274.
N 59° 10' E 186.
S 59° 30' E 380.
S 61° 30' E 528.
S 57° 30' E 527.
S 37° 15' E 401.
S 62° 15' E 340.
S 79° 30' E 325.
S 70° 35' E 480.
S 69° E 675.
S 76° 10' E 238.
S 61° 30' E 380. to reference mnd
placed on wbl 28

J.M. Barilla
S 40° W 135 to
Ramirez house,
S 24° 30' E old house,
S 40° W 533 to SW cor.

N 84° 30' E 290.
N 50° 15' E 147.
N 51° 50' E 509.
N 43° E 486.
N 43° 35' E 522.
S 70° 30' E 850.
S 74° 45' E 755.
S 11° 45' E 279.
S 79° E 450.
N 79° 30' E 1503.
S 61° 40' E 81.
S 75° E 118.
S 59° E 395.
S 88° 40' E 205.
N 41° 30' E 230.
N 69° E 474.
N 82° 15' E 182.
N 60° 15' E 308.
N 50° E 270.
N 51° E 530.
N 49° E 275.
N 73° E 770.
N 73° 30' E 672.
N 43° 30' E 380.
N 9° E 118. to original NW cor
sur 557, old bear-
ing still stand-
ing. Creek O.K.
from mound.
Old ranch S 40° W
about 350.

From Mon. 37 to NE cor Nolan Co. 4, NW cor
sur 533, NW cor 461, S.E. cor 7 Blk 14.

N 55° W 355.
N 40° E 330.
N 23° W 2464.
N 50° W 1425.
N 40° E 60.
N 40° E 231.5
N 14° 30' W 242.
N 0° 30' W 125.
N 2° W 223.
N 29° E 240.
N 17° 30' E 260.
N 17° 30' W 389.
N 20° 30' W 309.
N 13° 10' W 500.
N 0° 05' W 268.
N 8° E 346. to Mon. 35
N 12° E 364.
N 21° 30' E 242.
N 6° 30' E 129.
N 36° 30' E 198.
N 35° E 91.
N 7° E 481.
N 41° 45' E 97.
N 2° 30' E 406.
N 17° 35' E 255.
N 11° 45' E 435.
N 19° 10' E 344.
N 23° E 596.
N 17° E 480. Mnd mnd "MO4 AW"
S 89° E 32

N 27° E 249.
N 27° 30' E 227.
N 30° 10' E 286. Gate on road (see Tarver)
N 1° 15' W 813.
N 17° 35' W 385.
N 17° W 320.
N 5° 30' E 478.
N 4° W 438.
N 17° 30' W 650.
N 57° 30' W 145.
N 46° E 234. Pt. in Torneros Creek, fr
wh. Carters Nose bears
S 86° 15' E 480. N 87° E (Tarver S 87° E)
N 82° 15' E 710.
N 70° 10' E 973.
N 72° 50' E 307.
S 70° 30' E 394.
S 68° 20' E 341.
S 73° 05' E 374.
N 85° 20' E 835. Spring, bad water.
S 60° E 118.
S 47° 45' E 192.
S 34° E 261.
S 45° E 305.
S 52° 30' E 112. Comoba Spring about 150
west.
Carters Nose N 67° W
(Tarver N 73° W)

From Comoba Spring

S 74° 50' E 246.
 S 80° 10' E 121.
 S 85° E 478.
 S 76° E 260.
 S 67° E 367.
 S 60° E 592.
 S 51° 30' E 431.
 S 49° E 708.
 S 39° 40' E 321. Rck mnd on road, fr wh
 N 78° E 155 to Nolan Co.
 N.E. Cor 4, tin can in mnd
 and both bearings O.K.

S 49° E 388.
 S 37° E 327.
 S 19° 40' E 568.
 S 35° E 246.
 S 29° E 302.
 S 34° 35' E 440.
 S 9° 20' E 486.
 S 12° 25' E 131.
 S 20° E 553.
 S 8° 15' E 504.
 S 28° 30' E 430. Large old rck mnd,
 Ctwd in creek brs
 S 33° 30' E 515, the
 nearest point of crk.
 Pk. S 14° 30' E
 High Pt. Mt. S 35° E.

N 88° 30' E 322.
 S 72° 45' E 253. S 74° E Vase on bldr.
 S 37° 15' E 283.
 S 31° 45' E 172.
 S 56° 30' E 265.
 S 85° 30' E 330.
 N 62° 30' E 90.
 N 53° 30' E 94. N.W. 341, large rck mnd
 fr wh spring & dead wil
 lpw bear O.K.

Rck mnd N 3° 15' E 310,
 N.E. 533. Willow brg O.K.
 dead. Needle var. 30' E
 of our course.
 N.E. 341, rck mnd.
 to Tarvers mnd on road.
 S 86° E 1910
 S 4° W 715
 N 88° 15' E 368.
 N 80° 15' E 488.
 N 83° 10' E 474.
 N 80° 15' E 434.
 N 72° 40' E 214. N.W. 461, rck mnd Ctwd
 in crk. mnd old, brs O.K.

S 34° 30' W 383.
 S 11° W 160.
 S 23° 30' W 161. on road,
 S 50° E 346.
 S 68° 20' E 550.
 N 73° E 510.
 N 75° 30' E 371.
 S 78° E 290.
 S 35° E 385.
 S 55° E 294.
 S 85° 50' E 330.
 S 29° 40' E 121. gate,
 S 34° E 213.
 S 80° 30' E 232.
 S 58° E 331.
 N 40° E 340.
 N 32° E 472.
 N 29° E 280.
 East 390.

S 77° 15' E 570.
 N 89° E 626.
 N 80° 30' E 374.
 N 67° 30' E 189.
 N 77° 30' E 248.
 N 67° 30' E 139.
 S 5° W 220. to S.E. cor sur 7
 Blk 14, old rck mnd
 rock mnd "SE 7" bro-
 ken in half. Mt. Pk.
 brg O.K. no willow
 but course is to a
 draw where one might
 have been.

Lat. & Dep. of certain points of sur-
 vey from Mon 37.

Mon 38 S 2940.
 E 1619.
 Mnd on west line of 28
 S 7190.4
 E 8691.0
 N.W. Corner sur 4 Blk G. 8 by C & D fr
 S.W. 28, S 6551.2
 E 14809.0

N.E. corner sur 17 Blk 349 by C & D fr
 N.W. cor. sur 2 Blk G 8.
 N 3365.
 E 16109.

Mon. 35 N 6643.1
 W 2150.4
 Point in Torneros Crk.
 N 14450.0
 W 1019.6
 Point near Comoba Spring
 N 13948.8
 E 3941.0
 Original N.E. Nolan Co. 4,
 N 12373.5
 E 7104.4
 N.W. cor. sur 341,
 N 7965.5
 E 10275.0
 N.W. cor sur 461
 N 7404.0
 E 14079.7
 Priginal S.E. cor sur 7 Blk 14,
 N 6358.0
 E 20236.3

From S.W. cor sur 28 to N.E. cor 557,
 by this survey, East 9525.5 N 2747.
 by Gano's traverse
 changing last call
 from west to east, E 8190 N 2799
 by Ganos call
 N 73 1/3° E 11230 E 10758.2 N 3220

N 84° 22' E 7745.2
Tanner
Com. 48533

1542

Alpine, Texas, Oct. 25 1917

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

Dear Sir,

Your favor of the 15 inst relative to the Mrs. Lula Collie vacancy in Presidio Co. was duly received, and contents carefully noted.

I went over the figures of my report carefully and I found two errors in the Lat & Dep. and in one area. The lat. of the second course is written S 857.7 this should be, S 385.7 and the addition shows this was intended, a slip of the type writer I suppose. In the fifth plus area the amount is given as 27 million when it should read 26. This was unfortunately carried thro and gave a total area of 5527.37 which should be 5438.8 acres.

There must be some misunderstanding as to the connections platted as my figures will not fit them. It is possible that some of the field notes my working sketch may be in error. In order to put the matter before you as it appears to me I will go over the points of difference.

I find that the field notes of Nolan Co No. 3 will not close by an error of 50 varas in northing and 17.1 varas in easting. I attach figures for lat and dep showing this. Before I could place the lines of the Collie vacancy I had to force a balance in these field notes. As the east part of the Nolan Co. has double calls and connections they seemed all right. None of the angling lines would give a proportional change to suit the error. So I added the 50 varas to the call south 1560 making this read 1610, and subtracted the 17 varas from the call west 4282 making it read 4265 varas. This disturbed fewer lines and gave a margin of safety in case of error, as moving the lines of No 3 south and east held back the lines of the unoccupied land.

My fixed point was the N.E. cor Nolan No. 4, this fixes S.E. Nolan No. 4 and my other fixed point N.E. 533 places, by actual measurement, N.W. 533 1275 vrs west and 111 varas north of the S.E. No. 4. And the changed courses in Nolan No. 3 places the point its field notes indicate as the N.W. 533, 698.9 varas west and 156 varas south of this S.E. Nolan No. 4.

230.4
468.5

Now taking the field notes of Blk 349 and the connection carried from the river I find that what was intended as the north line of 349 by the Nolan Co. field notes is 1476.7 north of the measured position of the line, at the east end. Near the south line of 534 it is 1477.8 practically the same, the difference arising from careless figuring in the fldnotes of 349, I presume, at N.E. 28 Blk 349 it is 82.9 less or 1394.9. The westings figure out nicely to this point as shown on rough sketch enclosed.

As stated in the history of the survey, it was not considered possible to identify the N.E. corner of 637 a mound in the bed of the creek, so we had to take the call West 2759 and south 1550 from N.W. 533 for this survey. It is so platted and the connections all check out I believe.

Taking these points, the field notes of the Collie survey would balance but I noted your correction of the call west 1100, and found I was in error it should be 1069.7. This required the change of some other calls and I made out new field notes, a copy of which I enclose. The Area is, by my figures, is 5439.45 acres practically the same as before.

Will you kindly substitute these new field notes for those sent with my report.

I am sending a copy of these notes to Mr. Collie so that he may take the matter up with the County Surveyor in Presidio Co.

Thanking you for the sketch and letter
Yours truly

Rd Dod
State Surveyor

RECEIVED
OCT 29 1917
Referred to Map

<c7

counter 34569



LCB

counter 34570

Big at SE cor No 4

Field notes of Nolan Co. No. 3

	N	S	E	W
West 4282				4282.0
South 1560		1560.0		$\frac{-17}{4265}$
S 82° E 1039		⁵⁰ 144.4	1028.6	
S 8° W 1717		1699.8		238.6
East 2776			2776.0	
N 4° E 3306	3297.7		230.4	
S 86° E 1900		132.5	1895.5	
S 4° W 300				
" 1900				
" 974				
3174		3166.3		221.2
East 4503			4503.0	
N 22° W 2782	2579.5			1042.1
N 68° E 1900	711.7		1761.7	
S 22° E 1841		1706.9	689.6	
North 2224	2224.0			
West 7118				7118.0
South 353		353.0		
	8812.9	8762.9	12884.8	12901.9
		50.0	17.1	

Calculations from

Fieldnotes of a Survey made for Mrs. Lula Collie under her Application to purchase a tract of unsurveyed State School Land on Bofecillos Canyon in Presidio County, Texas, dated Mar. 28 1914.

Beg.	N.	S.	E.	W.	DMD	Area +	Area -
Beg. N.E. cor. 17 Blk 349							
East 347			347.0		347.0		
North 901.8	901.7				694.0	625779.8	
S68°W 1028.6		385.7		953.6	259.6	100127.7	
N22°W 3419	3171.0			1280.4	2493.6		7907205.6
South 626.2		626.2			3774.0	2363278.8	
N22°W 1841.3	1706.6			689.7	4463.7		7617750.4
S68°W 1479.3		554.0		1371.7	6525.1	3615557.9	
S 4°W 959.7		957.3		66.8	7963.6	7623554.2	
S22°E 1919.5		1779.5	719.0		7311.4	13010636.3	
West 2756				2756.0	9348.4		
S 4°W 358		357.2		25.7	12130.1	4332871.7	
N86°W 1900	132.2			5	14051.3		1857581.6
N 4°E 3416	3407.0		238.0		13708.8		53519881.6
N86°W 1721	118.8			1716.8	17187.6		2041886.3
S 4°W 1426.7		1422.5		99.7	19004.1	27033332.2	
East 567.6			567.6		18536.2		
South 1512		1512.0			17968.6	27168423.2	
N 82°W 672.8	93.5			666.2	18634.8		
S 4°W 468.1		457.0		32.0	19333.0	8835181.0	
West 1067.9				1067.9	20432.9		
S 8°W 1294.5		1281.6		180.1	21680.9	27786241.4	
S 82°E 815.9		113.4	807.3		21053.7	2387489.5	
S 8°W 1900		1881.0		264.1	20510.5	38580250.5	
S 82°E 1900		264.1	1881.0		18893.6	4989799.7	
N 8°E 2083	2062.0		289.0		16723.6		34484063.2
East 2776			2776.0		13658.6		
S 4°W 494		492.7		34.8	10917.4	5379002.9	
S 86°E 1900		132.5	1895.5		9056.7	1200012.7	
N 4°E 626	624.0		43.6		7117.6		4441382.4
East 3537			3537.0		3537.0		
	12216.8	12216.8	13101.0	13101.0		175031529.5	113612105.6
						113612105.6	
					2	61419423.9	
					square varas	30709711.9	
						5439.45	

Sketch File No. "5"

Presidio County

Report of Survey

By R. S. Dad

Dated Sept. 15 1917

J. T. Robinson

WM. H. McDONALD, Com'r

3/28/38

Woodland

File Clerk

Descriptive: N. line Blk. 347, S. line

Nolan Co. School Land No. 3

Blk. G. 7 & Adjacent Lands.

county 34573

15"