

June 29th, 1917.

Cape. R. S. Dod. State Surveyor, Alpine, Texas.

loar Sirs

Mr. I. G. Yates was in the office yesterday and handed us your Plat and Report of Progress in a reservey of certain sections of land in Block 194, 3 G & S F Ry Go, Block 1, I & G N Ry Co, and survey 50. 3, Emmals County school land, in Peace County counted by him.

I have carefully examined said plat and re-port and note your findings on the ground and also the inficulties and uncertainties in identifying some of the original surveys, especially corners on the river. However, as a whole I think you have the situation pretty well in hand and need no further instructions from this office relative thereto further than answer to your several questions in their order as follows;

(1) The base line run by you from a point on the Sant line of Block 2 fixed for the N. S. cor. of anyver Id. 11 in said Block 2 by prorating the ex-corner of survey Id. 5 and 8 in said Block, for N. W. corner of survey No. 5, Block 194, and extending Sast to the H. S. corner of survey No. 34, Block 194, ap-pears to be properly located.

(2) If there is suders Rant and West in Sur-veys in Blocks CS and C4 to which surveys in Blocks 178 and 196 tis, such excess should be accordingly given to surveys or tiers of surveys extending N & S through caid Blocks 178 and 194.

(5) As to whether or not you have suffic-iently identified as original, the S. E. corner of survey No. 55 and S. H. corner to No. 60. Block 1, is a matter that you must determine to your own satisfae-tion from the facts and conditions found on the ground.

R. S. D. #2--

(4) The location of the N. E. corner of surtry No. 69, Elock 1, is also a matter that you must determine from facts and conditions on the ground, but from your statement and plat it appears that the point at bend of river described by you (it being also the same point described by 0. W. Williams in 1892 for that corner) is probably the original N. E. corner of No. 69, and believe you would be safe in accepting same.

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(5) Surveys in Block 1, I & G N Ry Co. should be located according to the several original corners identified by you, prorating excess, if any, in northing intendified by you, protocold and original corners. This among all surveys between said original corners. This of and all surveys between said original corners. This of and fi and the 190 varas between surveys Nos. 68 and 69 shown by your plat.

In reference to the field notes of survey No. 545. T I & M Co. I find from an inspection of the field notes of surveys on both sides of the river that opposite surveys as originally made have identical meander calls along the river. I am, therefore, enclosing a pencil along the field notes of survey No. 76. I & G H My Co. copy of the field notes of survey No. 76. I & G H My Co. on the East side of river opposite to survey No. 545. which may sid you in straightening out that tangle.

(6) Survey No. 3, Hummels County school land should be located from the S. W. corner of No. 70, based on N. E. corner of survey No. 69, Block 1, and not adiacent to Block 194, for reason that said Rummels Gounty school survey was made more than two years before Block school surveyed, and has no marked corners to the it is the ground of calls for any surveys other than the river surveys on its North and East.

Your sketch only shows a few points where you connected with the river. In completing your work this office would like for your sketch to show a retrace of the meanders of the entire river from the S. E. corner of survey No. 53 up to the upper corner of No. 71.

Very truly yours,

Commissioner.

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

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Dear Sir, I herewith submit report on Resurvey of various Blocks of Land on the Fecos River above Sheffield. It has taken a long time to compile plat and report as the reconstruc-tion of the surveys was involved on account of junior surveys intervening be-tween surveys in the older Blocks, the field notes not conforming either to older work or to facts on the ground. I think we have so collated all the data that the questions at issue the intelligently passed on.

ray be intelligently passed on. Thave tried to condense the report and avoid relating unnegessary de-tails of survey, and state only those facts that have a direct bearing on the location of boundaries.

I have enclosed copies of field notes for the applications for purchase made by both "r.Yates and Mr.Holmes, explaining to these men that I had no authority whatever in the matter, and made out the field notes simply as a matter of convenience so that the matter could be intelligently discussed with your office. Any further explanation or information will gladly be furnished , if

required, and within my ability.

Respectfully

Radod

P.S.I am sorry T had to cut the Flat in two, but the men who raid for the survey wanted copies and my print frame would not take the whole map.

Last instructions in Letter Book 1232

Report of Resurvey of Blk.1 Pecos River Plock 194,193,178,

Meanders of the Pecos from N.E.69 to S.E.37 Blk 1,

List of new corners and bearings made on this survey.

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Method of determining excess in Fasting in Blk.194

Plat and field notes of unsurveyed land between Blk 1 & Blk 194 Field notes resurvey of P.C.Nolke application, " " Holmes application " " Yates "

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Field notes of Resurvey Punnells Co.No 3, Field notes of unsurveyed strip north of Plk 194, Yates.

leport on a Resurvey of Block 1 I.& G.N.Ry.CO. from N.cor sur 72 to N.E.cor sur 32, on the Pecos River and adjacent Blocks and surveys in Pecos County , Texas, by R.S.Dod State Surveyor.

Object of Resurvey.

To locate on the ground the actual position and meanders of the Pecos River, and lines of surveys in Block \$,I & G N Ry Co.

To locate on the ground the true position of lines and corners of Runnells Co.No 3, To locate on the ground the east line of Block 194,G.C.& S.F.Ry.Co from corners on the west, and determine its relation to the west line of Block 1,

To locate on the ground the true position the east line and south lines of Block 178 T.C.Ry.Co.

To locate on the ground the true position of surveys in Block 193 Tex.& Mex.Ry Co. from connection with original corners called for. To locate on the ground the true position from their field notes of survey 1 1/2 in the name of J.Hudspeth ,and the town site of the town of Sheffield relative to adjacent survey lines and corners. To locate and determine area of any tract of unsurveyed State Land between or adjacent to the above Blocks of surveys.

Authority for the survey. Letters of instruction from the Commissioner of the General Land Office of Texas authorizing and instructing me to make the resurvey of the above tracts and Blocks of land, issued at the request of the owners of certain of these tracts of land.

Data for the survey.

A working sketch of Block 1 I & G N Ry Co, Block 194, Block Z, Block 178 Block 193, Block C4 and Runnells Co sur No.3. from the Gen.Land Office,

Working sketch of Block C3 & C4 and A2 from County Surveyors records in Fort Stockton made by me. Plat of resurvey of Block 1 and Pecos river and adjacent surveys by 0.W.Williams as Co.Surveyor of Pecos Co.in 1892, kindly furnished bythe Gen.Land Office.

Plat of lines of connection between original corners in the above named Blocks run in a preliminary survey made by me and submitted to the Commissioner of the General Land Office for correction and further

instruction under the premises. Plat of Town Site of Sheffield and field notes of subdivisions of Sur-5 and survey 1 1/2 from deed records of Pecos Co.kindly furnished by Mr.Geo.Hazeltine of Fort Stockton.

Plats of surveys and connecting lines run Mr.A.N.Leagas County Surveyor of Pecos County and filed with the General Land Office, kindly furnished from that Office,

Patents to certain of the surveys in Blk 1 and sur 1 1/2. Method of survey.

Fransit with solar observation checked by observation of north star at elogation, was used to determine courses, checked by reading of the needle at each point of the meanders and frequently on the right lines. Distance was measured by double Stadia rod readings , each distance read twice and checked by comparing front and back rod readings. Variation.

The present magnetic variation and course of old lines was first taken at N.W.cor Blk C4 where we had two mountain bearings, this gave a variation of 10%41'E, This was checked by run north and east to connect with original corner of 33 Block Z,

Later this variation was proven correct by observation of the three Bluff bearings at N.E.cor 43 Blk 1, also by the fact that in running out from an identified original corner of Blk 1 on the river, then running

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Report on Resurvey Blk 1 pecos River

the back ,or west lines of surveys and returning to the river at another original identified corner placed the original corners nearly in the relative position given by the original field notes, whereas any serious error in variation would have thrown the west lines too close to or too far from the river at the fixed points where original corners were identified.

Also a run from the well identified original N.E.cor sur 43 A2 ,which is also the S.E.cor of sur in C3, to the rock mound and Mt.bearing at S.W.6 C3 showed that this variation fitted both bearings and course of lines in Blk C 3.

No local attraction was noted, and only a slight diurnal variation, greater or less according to climatic conditions.

The true meridian gave a variation of 11%34' from the magnetic north. The determination of the course of the original lines was essential as the original corners found were at considerable distance from each other necessitating long lines of connection through the Blocks in question.

Preliminary examination of data,

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The survey as shown above naturally divdes itself into 5 distict surveys, First, the senior Risk senior survey Block 1 made by Mr.Keuchler in 18 and basedon the meanders of the Pecos river and certain marked river corners, no corners being called for on the west.

Some of these river corners have trees as bearings, some have mount tain bearings and some call for rocks marked IR and set in the ground, The first step in locating the surveys in Block 1 would be to meander the river and look for the original corners.

On seeking a starting point on the river we find the N.E.corner of survey 69 to be the first marked corner with bearings given, below the North corner of survey 72.

The original meanders place this corner at a sharp ben d of the river ,nearly a right angle from S.E.to N.E.and continuing some1600varas east before turning south again, and no similar bend is shown for seveal sections up and down the river from this corner,

The field notes call for a rock mound on the west bank of the Pecos river, between two riffles with a Hackberry tree west 9 varas,

In the report of Mr.Williams as CO.Sur.Pecos Co.in 1892 he states that he found this corner and the hackberry dead in place, and took a new bearing on a rock bluff S 47%E.

We found a bend in the river closely corresponding to the original field notes, and a rocky hill with bluff caprock S 47%E, At this bend a draw runs in from the west, on the north edge of which are several small hackberrys, 4" to 6" in dia. but none marked.

There is also a draw which runs in to the river at this bend, from the south, with rock ledge showing on river bank, a riffle below the bend and a gravel bar, once a riffle new cut through, above the bend. We were shown a rock mound marked "N W 69" about 350 varas south of the south bank of the bend. In a former report we used a point 350 north of this rock mound as the probable location of the original corner N.E.69, but a closer examination of the present river bank, noting the erosion that had been caused by the two draws, the position of the Hackberry timber, connection with original N.E.60, and with the river at North cor 72, the meanders of the river to S.E.69, lead me to believe that the original position of the river and corner were further north, so we placed a rock mound for the N.E.69, on the west bank of the river, 410 varas N 1° 30'E from the rock mound mkd "NW 69", and N 47°W from the east edge of the rocky bluff used as bearing by Mr.

Williams, as more nearly, satisfying the original description of this corner From this point , as a check, we ran course and distance to the N.W.cor sur 69, and made mound, on west 2344 waras for the S.W.cor sur 70, and N.W. cor Runnells Co.No.3, North to N.W.70, west to S.W.71, Thence to S.W.72 and north to the river, At 1910 waras we dropped some 20' into the river bottom covered with brush and some drift, on at 2204 reaching the south bank of the present river bed.On the north side we noted that the river ran along a low gravel ridge preventing any further movement north, but a former chan nel might be anywhere in the river bottom.

Returning to our N.E.69 we meandered the river, taking points on the right bank or in the river bad on gravel bars. The details of this run are given below.

At 921.5 south and 2750 E we found two rocks lying on the bank, one of them marked "1", At 1968.7 south and 3708 east we found a rock mound with rock marked "2".

Report on Resurvey Bly 1, Pecos River.

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On reching the N.E.cor sur 545 the question of error in the corrected field notes came up. The field notes in the Patent to this survey follow the corrected field notes made by Mr.Nelson and do not fit the original field notes or the actual meanders of the river. This matter was investigated when the or the actual meanders of the river. This matter was investigated when the preliminary survey was made and the original meanders of the river were found in the field notes of the survey opposite sur 545, on the east bank of the river. As the object of this survey was to follow the footsteps of the original survey of Block 1, we used the original meanders of the river and original connections with adjacent surveys in the same block. The relative position of survey 545 may be governed by the calls in the patent, but the original field notes must be used to determine the relative position of the adjacent surveys in Blk 1, which run in a continuous chain from one old corner to another.

We were shown a rock mound marked "SW 545" said to have been placed by Mr.Ratchford as Co Sur.and mentioned as a starting point in one of Mr.Lea reports.This mound is 5819 varas west and 140 south of the point on the 1 8 river where this survey locates the S.E.cor of sur 545, our S.W.545 under the original field notes is 1233 varas west and 140 north of this Ratchford S.W. 545.Mr.Ratchford, apparently following the Nelson field notes, places his S.W. 545 at the distance called for, 4596 varas, for the south line of 545, but ap-prently the use of these field notes at this point in the chain of surveys brings the S.W.cor of 69, as noted above, almost south of the fairly well iden tified N.E.cor of the same survey.

Continuing our meander line we found no old marks or corners until we reached the S.E.cor survey 61. Here we found an old I.R.rock set in the ground on the west bank of the river, probably in its original position. This rock was described in report on preliminary survey. This gives a total southing of 8937 varas and an easting of 7145 varas,

between original N.E.sur 69 as above described and this N.E.cor sur 60. As these surveys all connect, all call for the same width, the excess in southing, under my instructions was pro-rated between them, siving a width c? 993 varas to each survey.

The position of the west lines in these original surveys is fixed by the calls for distance from the river corners, but owing to the change in the river since the original survey was made in 1876, the easting of these river corners has presumably cahanged, at least is uncertain , except at those points identified as original corners, hence at intermediate points a measurement from the river would be uncertain and indefinite. But the length of each line is given and the original difference in easting or westing of these west lines can be exactly determined by comparing the calls in adjacent surveys, giving a continuous line deduced from the original calls for the west lines of these surveys, with a check by measurement to the river at points identified as original corners.

Returning to the N.W.cor of sur 69 as above described we ran south 993, east 1262, South 993, east 656, south 993, east 1910 (orig calls) south 993, east 2167, south 993, east 355, south 993 west 511, south 993, west 500, south 993 east 1171, for N.W.cor sur 60, from which point to the IR rock N.E.60 measured 2760 varas, the original call being 2750.

This closure seems to show that the west lines as above run must be very close to the original position defined by the field notes and that the varation used must be very close to that of the original lines.

close to the original position Advined by the field notes and that the vari-tion used must be very close to that of the original lines. From this K.E.cor sur 60 we continued our meander of the river, without finding any original marks until we reached the N.E.cor sur 55. This was a re-rock mound on the extreme edge of the west bank of the river, marted "NE 55", and one rock marked "10". This concer was reported in earlier critininary sur-vey and was accepted as probably the original corner. The N.E. cor sur 543 calls for an && rock which Mr. Williams states that he found, but it has dic-appared. I was told by several prties who had lived near these lands that the IR rocks hed been purpoely torn up and thrown into the river. In many cases the change of channel would account for their disappearance, but it is strange that all but one are not to be found. The moth's N.E.corner of 55 west to the N.M.cor 55, the call is 3457 vary the actual distance from this N.E.55 to our C.W.55 is 3544 vary. But on figuring the easting in the field notes between these fixed points we find that the original which accounts for apparent discrepancy in westing of the north line. And gives an average width of 986 varas to each survey To find this N.W.55 we ran from our N.E.cor strong in westing of the north line. And gives an average width of 986 varas to each survey Me continued our meander of the River from this T.E.55 as shown below, to the ...cor sur 43, before finding any marks positively identifying any original eoner

Report on Resurvey of Blk. 1, Pecos River

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We had hoped to find the large rock bearing called for at NE cor 52, but examination on the ground showed that a change of river bed had covered this rock.

At N.E.50 we found a fence corner, and were told that the corner post had been set where an old rock mound once stood. But our distance ran out some 10 waras south of this point, and within twp tenths of a wara of the centre of a small rock mound standing 150 varas west of the present river bank. This rock mound is at the foot of a ridge or bank and the river bottom

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extends eastward for 150 varas, the original channel may have been anywhere between this mound and the present river, it is all subject to flood now. We also ran from the N.W.cor sur 55 as above noted, south 950, east w 216, south 950, east 65, south 950, east 564, south 950, east 546, south 950 to S.W.

corner sur 51, marking each corner as shown below.

We found this corner to be 3851 waras west of rock mound described at N.E. sur 50. The original call is 3886 varas, but the original corner may have been anywhere at or east of the rock mound above described.

From N.E.cor sur 50 the river runs through a comparatively wide valley of made land bordered by gravel ridges of rock ledges and bluffs.The river has cut many chanels through this soft bottom land and twists and winds from side to side of the valley, making it impossible to even approximate the location of the original meanders.

On looking over the surveys from 50 to 43, we note that the original field notes stop with survey 49, and that survey 47 & 48 are located by field notes made in 1892 by Mr.Williams.The old calls begin again atsurvey 542 and continue to the original S.E.cor sur 44. On running the distance south from N.E.50 to N.E.43 we found that there was 79 waras over the even half mile width for each survey,or 128 waras more than called for by Mr.Williams survey.

We could not extend the calling south for the old surveys unless we had an original corner which required this extension, and I understood that Mr.Williams survey was intended to take up the surplus acreage in the old work, consequently it seemed better to give each survey south from N.E.50 its call of 950 waras, and each survey its original 950 waras north from N.E.43 and theow the excess into 47, where it would be considered either part of 47 or a tract of unsurveyed surplus land.

Consequently we gave sur 50,49,48,44,45,46, each 950 varas southing and threw the surplus into 47 making it 1029 varas wid, subject to further instruction in the premises. We did not put in the west corners of these surveys as this construction might not be adopted, but we used this con-struction in calculating the bounds and acreage of the unsurveyed land west of them.

The relative position on the river of survey 50 and 44 do not fit the distances given for east and west lines in original field notes as we have

distances given for east and west lines in original field notes as we have not the original calls for the surveys corrected by Mr.Williams. We gave the west lines of 50,49,48,the distances called for,76 east, 324 west,77 west,Then starting at the N.W.cor sur 43,set 3801 waras west of the original N.E.cor 43,we ran west 1041 to the S.W.cor 44,north 950 west lll8 to S.W.45,north 950,east 186 to S.W.541,north 950,west 349 to S.W.542,north 950,east 340 to S.W.47 as run from N.W.50,as above noted. But if we take the meanders as given on the working sketch of the field notes from N.E.50 to S.W.43 we find an easting of only 1138,Now attempt to close this by running west 3568 to N.W.50 and along west lines 1204 east and 3801 east to N.E.43 and we find an excess in westing of 300 wrs. We must cut this down to close and we look for the error in sur 47, and make the westing to N.W.46 340,which will close with our meanders between N.E.50 and N.E.43. N.E.50 and N.E.43.

The S.E.cor sur 44, which is also the N.E.cor sur 43 is the best marked corner we found on the river. It calls for a bearing on each of three bluff and there are no such bluffs elsewhere in sight on the river, and the 3 calls fit the bluffs, each bearing pointing to either a prominent perpendicular face of the bluff, or the middle point fixed by the gable like top.At this corner we found a small rock pile partly covered over, and one of the rocks was marked "XVL" corresponding to Mr. Williams call at this corner. This mound was about 18" from the point at which all three bearings came together with a variation of 10°41'E.

From this corner we meandered the river as before, taking points on the right bank or on bars in the bed of the river. Here we noted a very serious error in the field notes, they show a run of the river straight south, but on the ground the river runs S.E. running east 913 varas in the mile to south line of 42.Again the calls for the three bluffs are repeated at the N.E.cor 42, a palpable error as no such bluffs exist at that point, and the calls for the south line of 42 shows that both the river and the west line of sur 42 & 43 were figured due south lines.

Report on resurvey of Blk.1 Pecos river.

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The high land and ridges on the west of the present river make it physically impossible that its course should at any time have been due south for any distance from the N.E.cor.sur 83.

We continued our meander of the riger and searched carefully for the bearing trees called for at S.E.42, and S.E.41, but found no trace of them. There were some large willows near S.E.41, which were buried nearly up to the first branches, showing a fill of some 5'or 6', but no old mesquites near by.

Tirst branches, showing a fill of some b'or 6', but no old mesquites near by. We continued our meander line until we reached a rock mound under the fence supposed to be on south line of 38. This rock mound stood on the bank above the river bottom and showed signs of having been in place for a long time. It was not marked on any of the top rocks and I did not disturb it as that would destroy in part the evidence of age. I was told that this corner was found in place many years ago and has been locally recognized as the S.E.cor sur 38.

here we again ran into one of Mr. Williams surveys, and the field notes show the river running S 59° 30'E for 575 waras. This I think is an impossible call allowing for the extreme possible change in the river bed.

We continued our meander line to the N.E.cor sur 37.and S.E.of 535.The original call for S.E.cor 535 is a Hackberry marked X on west bank of River below Pecos Spring. The Pecos spring is a well known spring, the old spring has dried up but its location is unmisstakeable, and the spring has been opened up and turned into a reservoir immediately below the old opening. A stump of a hackberry was shown us as the original marked tree, and a large hackberry stood close by. Although the bearing had been destroyed yet the statements of several witnesses and the position of the spring identified this as the orig-inal N.E.cor 37 and S.E.cor 535. Unfortunately we again were confronted with a corrected survey by Mr.Nelson who made such a serious error in correcting sur 545 as before noted, but as we had no other field notes we had to use his regardless of the fact that they were presumably wrong.

We continued our meander line to the S.E.37 , giving this survey its 950 varas southing. Here we found the river had eroded the west bank for some 50 varas or more of late years, and all trace of the corner noted by Mr. Williams had disappeared.

From this point we left the river and ran a traverse 1034 south and 341 west to a large rock on the south side of a draw and near anold road, which

west to a large rock on the south side of a draw and hear another loar, which old rock was plainly marked I R on the under side. We noted a call shown in Mr. Williams plat for an IR rock on the north line of survey 35 and presumably on the south line of 36,1410 varas east of N.E.35 with hackberry bearing 3 52°30'W 80 varas. There was no hackberry at this W, course and distance from this IR rock, but there were a number of small hekbry along the draw close by. at

From this IR rock we ran east, to 1574 varas passed 8 varas south of an unmar ed rock mound on river bank, on 102 varas , 1676 in all to a point on the present river.

From N.E.43 we had found nothing on the river except the old mound at S.E.

From N.E.43 we had found nothing on the river except the old mound at S.E. 38, and the Pecos spring corner ,N.E.37. Returning to the N.E.cor sur 43 we ran west ,at about 3400 varas we passed 50 varas north of a rock mound said to be Lea's N.W.43, on at 3700 passed close to a rock mound said to be Williams N.W.43, on at 3801 made rock mound for N.W.43, finding a rock mound N 5°W 37 varas ,said to be Durrells N.W.43. This fixed the N.W.cor sur 43, but in the face of the contradictory calls for the east lines of these surveys, and the absence of any identified points on the river, the only thing we could do was to run the west lines as called for although this would size us too much westing to close on the river call

for, although this would give us too much westing to close on the river call. From N.W.43 we ran 1906 varas south, east 161, south 958, west 283 to N.W. 39, South 1614, east 695, south 958, east 1529 to a point 244 varas north of N.W. 536, on east 3266, 4795 in all to the rock mound described above as marking the S.E. cor sur 38.

S.E.cor sur 38. Returning to the 1529 vara point on south line 38 south 244 varas to N.W 536, on south 672 varas to S.W.536, west 29.5 varas to N.W.535, south 672 varas to S.W.535, east 388 varas to N.W.cor sur 37, thence east 3070 varas to hack-berry corner at Peccs Spring, N.E.37. Returning to the N.W.cor sur 37 we ran south 950 varas, east 1790 varas to the N.W.cor sur 36, on east 2927, 4717 in all, to point on river for N.E 36 and S.E.37 as above noted. The call is for south line of 37 is 4794 varas, and our actual measure to the river is 77 varas short of this, and allowing for the erosion of west bank noted above, would probably close fairly well in spite of the increased westing from error in field notes of 43 % 42, and thus cor-roborating the position given the vest lines of surveys from 43 to 36. Mr. Williams field notes show that he put 4600 varas in the south line of 36, but our measurement leaves only 4260 between S.W.36 and the river. In order to complete the connection between the above points on the river ,we went to the S.E.cor sur 38 Blk.l, known locally as the Lancaster

river , we went to the S.E.cor sur 32 Blk. 1, known locally as the Lancaster

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corner. The map and field notes show this corner to be located on a peculiar sharp bend of the river, and call for a rock mound with two cedar bearings. We found the river at this point encroaching on an old road way beside a

rocky ridge. At the foot of the ridge was a scattered pile of rocks, from which the stump of what had been the larger cedar in sight bore as called for in the field notes , and another smaller cedar , still standing, fitted the call for the other tree.Mr.Williams states that he identified this corner in /92 and notes a clump of Hackberries which we found bearing as called for from the above described mound.

From this mound we can a tryerse back to the large IR rock above described as 84 varas south of the south line of sur 56, finding it to be 4250 varas north and 2960 varas west of the above described S.E. for sur 52. This shows a space of 554 varas in width between our south line of 36 and the north line of 35 by course and distance from S.E.32.But we find that Mr.

Williams has inserted a survey No 35 1/2 J.Swisher, between sur 35 and 36, to which he has given a width of 828 varas and a length of 4600 on the north line, out from the river, which makes a conflict between this sur 35 1/2 and sur 35, and on the west between sur 35 1/2 and survey 2 Blv 193 and sur 2 1/2

as shown later on. In looking over the field notes of Blk 193 which was put in by Mr. Durrell In looking over the field notes of Blk 193 which was put in by Mr.Durrell in 1882, we find that the westing of 29.5 varas on east line of sur 6, and the easting of 388 and 1790 on east line of survey 5, correspond with the dis tances given on west line of 535, 37, and 36, and Mr.Durrells call for sur 5 to begin on Blk 1, also shows that these were probably the original calls on west line Blk 1, before Mr.Nelson made his corrected survey of 37.I note this as we did not have the original calls of survey 37.

as we did not have the original calls of survey 37. This completes the meander of the river along Blk 1 ,I.& G.N.Ry.Co.from sur 69 to sur 37, with corners set on the west lines from sur 69 to sur 50, and from sur 50 to sur 36, as above related.

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NO 2. (Sumstructions Letter Brok 1232 476

Runnels County School Land No.3 Thes survey under its original field made in 1881 by L.W. Durrell, calls to begin at the S.W.cor sur 70 Blk.E, I.& G.N.Ry.Co.and by these field notes would contain 4428 acres or one league of land, but these calls do not fit the actual location of the west line of surveys in Block I and there is a consequent shortere in No. 3; the junior survey

consequent shortage in No 3', the junior survey. Having established the S.W.cor of sur 70 Blk 1, as above related, we ran south 4912 varas and made the S.W.cor of sur 3 by course and distance from S.W.sur 70. We found a rock mound marked for the S.W.cor sur 3 at 340 varas east and 539 varas south of our corner, said to have been placed by Mr.Lea. And at 2028 waras south and 1048 waras east we reached the N.W .corner of sur 36 Block 194 as run by course and distance from corners on the west as reported in our preliminary survey. This corner should be 238 varas further east to fit the excess in Blv 194 as related below. Returning to the S.W.cor sur 3 and running east, at 8339 varas we reach the west line of sur 65 Blk 1, at a point 53 varas north of its S.W.corner

as located by this survey

Returning to the S.W.cor sur 70 and following the field notes of No3, we find it calls to run "east 2494 waras, but the distance between S.W.70 and N.W.69 is only 2344 waras, making a conflict of 150 waras in easting. The next call of No 3 is south 950 waras, but the distance found for sur 69 is 993 waras, so that No 3 will not reach the S.W.cor of 69 by 43 waras, losing to the older sur 69

Next call south 950 for No3, fails to reach north line 545 by 129 yaras Next call of No 3 is east 1910, again the same as we found for original 545, which leaves the east line of 3 still ten varas west of west line 545

Next call of No3 is south 950, which teaxes fails to reach south line 545

Next call of No 3 is east 2177 varas while call for east line 65 is 2166 varas, throwing the east line No 3 and west line 65 together.

Next call of No.3 is south 950, which will be a point on west line 65, Next call east 298, we can not follow as it in rudes on the older sur 65, Next call south 162 we can follow along the west line sur 65 to the point 53 varas north of S.W.65 already located by extension of south line No

3 from its S.W.corner.

The above facts show the relative position on the ground of survey No 3, by following the calls of the original field notes, and I have made out field notes for corrected survey of No 3 on these data, showing a shortage of 167.2

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notes for corrected survey of No 3 on these data, showing a shortage of 167.2 acres ,or content of 4260.8 acres instead 4428 acres. But in as much as the evident intention of the original survey of No 3 was to take all the land immediately west of Blk 1, and as the original sur-veyor made no corners on the ground, It is possible that you may think it proper to extend the calls east for Sur No 3, to include the three ten vara strips of unoccupied land between west lines of 68,67,545, and east line 3. Consequently I have made a set of corrected field notes based on this ex-

tension as carrying out the intention of the original surveyor and attach ther to this report, showing 4270 acres in No 3, under this construction.

Location of north line of Block 194 G.C.& S.F.Ry.Co. The north line of this Block was located from its calls on the west, under my instructions from your Office, and was reported as part of the preliminary sur

We started at the original N.W.cor sur 3 in Blk C4, a rock mound with 3 mountain bearings. It is also the S.W.cor sur 25 Blk 178, and S.E.cor sur 2 2 Blk Z, It is described as on a hill with a stone capped mountain in the valley N 25°W, another S 50°E, another South 150° varas, We found the mound on the hill and the bearing on the hill in the valley is unmisstakeable, and the bearing S 50° E also fits.

We ran north from this point 8 miles and connected with a line we ran east from original N.E.33 blk Z, the intersection of these lines gave an excess in northing of 106 varas in the 8 miles.applying this pro rata to the surveys in Block 178 and 194, we located N.W.cor sur 5 Blv 194, at 11479 varas north of N.W survey 3, Blk 04, as above described.

Survey 3, Blk 04, as above described. From this point we ran east and north as before reported, along the north line of Block 194, by placing the north corners of surveys 37, 36, 35, & 34, by the distances called for in their field notes east from the east line of Blk 2. On reporting that there was a line of original corners running east and south from N.W.3 04, through Blk 03 to N.E. cor sur 43 blkock A2, I was instruct ed to make the width of surveys in Blk 178 and Blk 194, east and west, accomo-date teself to the calls for these 0.3 surveys on south line of Blk 178. Or connecting our SAW corn survey 65 with the south line of Blk 178.

On connecting our S.W.cor survey 65 with the south line of Runnels Co.No3 as above related ,we found that the N.E.cor of sur 104 T.C.Ry. co.under the field notes of 101,102,103,104,would be 7600 waras east of the S.W.cor No3, where sup 101 called to begin, and as no marked corners are called for course and distance from this point would recommend on the set of where sup 101 called to begin, and as no marked corners are called for course and distance from this point would govern. We ran as above related 355 east from S.W.65 for N.W.64, then south 993 for S.W.64, then west 511 for N.W.63, and ran on west 583 varas and south 163 varas and put in the S.E.cor sur 104 7600 varas east and 1209 varas 'south of the above described S.W.cor sur No 3, and 819 varas north of the north line of 34 Blk 194, located from the west as above noted. From the N.W.cor sur 62 we ran across to the N.E.cor sur 34, Blk B94 and found it 11 varas north and 422 varas west.

In order to apply the excess easting to this N.E.cor sur 34, we went to the S.W.cor sur 43 Blk 1, as before described, and ran 430 waras north and 2181.5 varas west to a small rock mound in 4 mile draw, shown me as original N.E.sur 43 Blk A2. from this cor of sur 43 two bearings are given, one on the red gable bluff on the riverused as a bearing for N.E.43 Blk 1, which call fits from this rock mound, but the other call is for a round hill N 50°50'W, and the only round hill near this course reads N 55°30'W, I note that Mr. Williams in his report of survey made in /92 calls for this round hill as

N 54°30'W. I was told that there was another rock mound west which would fit both bearings and ran on west until I reached a point S 50°E from round hill, but at this point I could not see the gable bluff on the river, and moved back to a point where I could get the course from the "able bluff and approximate the call for the round hill, but found no rock mound, neither could the men who had formerly seen this mound, find it. The road bad been worked and raised on a dump near this point and it was suggested that the rock mound had been destroyed by the road work. In order to settle the matter definitely, I went to the S.W.cor sur 6 Blk C 3, a small mound in a flat with a well marked "t. peak or bluff standing as called for in the field notes of this survey and ran a traverse back to the N.E.sur 43 Blk A 2, and found it 3 miles and 60 varas east and one mile and 23 varas south of this S.W.6 Blk C3. This connection with N.E.cor sur 43 Blk A2 and S.W.49 Blk 1, showed an ex-cess in easting from N.W.3 C4, to S.W.6 C3, of 43 varas to the mile for the 7. miles, and also showed an error in northing in this chain of old corners, as

miles, and also showed an error in northing in this chain of old corners, as She distance north to north line of sur 34 Blk 194 was only barely enough for

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Report on Resurvey of Blk 1 pecos river.

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the field note calls, while on the west we had an excess of 79 waras in the 6 miles. This might be a difference in variation used, only that our variation was first taken from the bearings of N.W.3 Blk C 4, and tested on corners in Blk 1, and on bearings at S.W.6 Blk C3, The meridian through Blocks 178 and 194 would under my in structions ,run from the N.W.cor sur 7 C3 to the west line sur 33 Blk 194. Thès will place the N.E.cor sur 34,238 waras east of its location from the

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west and 164 waras west and 11 waras north of our N.W.cor sur 62 Blk 1. The calculation on which this is based is attached to this report. This shows that the east line of sur 34 will reach the north line of sur 61 at 1004 waras south from N.E.cor 4, at a point 192 waras east of N.W.61. This shows a tract of unsurveyed land lying between surveys No3, 101.102.

103.104. on the north, Surveys 34, 35, 36, 37, on the south, and surveys 61, 62, 63, & 64 on the east.

I attach field notes showing exact location and acreage of this tract. Mr. Ira G. Yates has made application for survey and purchase of this tract and as a matter of convenience I have made the field notes to cover this application.

Unsurveyed land between Block 1 and Blocks 194 and 178 and 193. The above calculation of the position of N.E.cor sur 34 relative to the west line of Blk 1 I.& G.N.Ry.Co, based on the actual measurements above noted show that the lower N.E.cor sur 33 Blv 194 is 308 varas west and 258 varas north of the S.W.cor of sur 61 Block 2. From this S.W.cor sur 61, the west line of Blk 1 has been described as run out subject to approval of your Of-fice. The east line of Blk 194 will run course and distance as called for in its field notes, as shown on Plat, until it reaches the S.E. cor sur 31, here we find that the S.E. cor of sur31 is placed 2866.5 waras east of the east line of survey 21, which under my instructions to project meridians from cor-ners in C3, will be 1943 waras wide hence the call on east line of 31, "east

ners in C3, will be 1945 waras wide hence the call on east line of 51, east 997", must be increased 43 waras to 1040 waras. Again the distance from S.E.36 to N.E.35.Blk 178 is given in the field notes of Tlk 178 as 488 waras but when we insert the 20 waras per mile excess in surveys 34 & 35 ,found between N.W.6 and N.E.3 Blk C3, this distance becomes 528, and to preserve the relative distance of east line of sur & blk 178 and east line of sur 35 same block we must in crese the call east 216 on eastline

sur 1, to 256. At S.E.3 block 178, original field notes show south line of 3 as 1888.5 vrs which would be 11.5 varas west of N.E.cor sur 2 Bl+ C3, but survey 2 Bl+ C3 is 1920 varas wide making it 31.5 from S.E.3 to N.E.2 Bl+ C3. When we reach the north line of survey 39 Bl+ 1, we find 383 varas westing from S.W.41 to N.W.39, and only 220 varas to the east line of survey 9 Bl+ 193 consequently there is a slight conflict here and no vacancy, but the vacancy opens out again on the east line of sur 8 where this east line recedes west-ward. When we reach the north line of sur 8 where this east line recedes westward. When we reach the north line of sur 1 1/2 we find it extending 9.3 vrs north of S.W.cor sur37.

The details of the east and west lines of these tracts are attached to

this report. I was instructed to resurvey part of this tract as surveyed for Mr.Nolke by the County surveyor of Pecos Co.and I attach field notes covering this part of the unsurveyed land up to the south line of survey 44 Blk 1, where the part of the unsurveyed land up to the south line of survey 44 Blk 1, where the field notes of Mr.Nolkes survey stopped according to the palt furnished me from your Office.

Mr.Holmes applied for 1280 acres of this strip to the Co.Sur.of Fecos County and I have made out field notes covering this 1280 which he wishes to buy. Mr Yates has applied to purchase 1280 acres out of the north part of this

strip and I made him field notes to cover this part of the survey. Of course these field notes of Mr.Holmes and Mr.yates conflict, but as I had no authority whatever in the matter of determining the rights of the par-ties under their applications ,I made the field notes so that there would be some definite basis for settlement or discussion.

Location of surveys in Block 193 Tex.& Mex.Ry.Co.

The field notes of Block 193 show that its south line is an extension west from the S.E.cor sur 32 Dik 1, and its north line is 100 varas north of the north line of sur 1 Blk C3, the S.E.cor of sur 1 Blk C3 being also the N.E.cor sur 43 Blk A2, above described. On connecting N.E.43 A2 with the Lancaster corner it appeared that there was considerable excess in northing between these points, and I was instructed to distribute this excess 100 pro rata among surveys in Blv 193, but to throw this excess into the adjacent

Report on resurvey of Blk 1, Decos River

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School land.

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Our measurement showed 58.15 varas excess in northing per mile, or 3.06 varas per 100. This was distributed along the line of Blk 193, and thrown in-to surveys 10,8,6,3 4, and surveys 9,7, retaining their original calls, but when we came to survey 5 we had to include this excess in northing in survey 5 or tear it from its connection and relative position to 4 and 6. Also the excess being put into 4 and 2 , we had to put it into 3.and 1 aswell. The details of this change in northing are given on the plat.

This survey and calculation showed that the east part of the north line of Survey 5 was 390.7 south of the south line of survey 37 as described above. And that the N.E.corner of survey 5 was 715 varas west of the west line of Survey 37.

We put in the corners of sur 5 from these calls, corners and bearings are given in the attached field notes.

Survey 1 1/2 calls for both the middle east cor of sur 5 and for the N.W. corner of survey 36, but as my instructions were to disregard calls for the river block in construction of surveys tied to Blocks and corners on the west, we started survey 1 1/2 from the middle cor of sur 5. Sur 1 1/2 calls to run north 400 varas which will reach a point 9.3 varas north of the South line of survey 30, as 37 is the senior survey it will hold over sur 1 1/ but west of survey 37, between its west line and the upper east line of sur 5 it can take its full distance of 400 varas and was so put in. The location of the town of Sheffield has already been reported on, and

in connection with this report all data necessary to determine its location have been reported.

The lines run and connections made with sur 5, sur 1 1/2 sur 36 and the river at S.E.36, show that survey 2 1/2 begins at the S.E.cor sur 5 and the river at S.E.36, show that survey 2 1/2 begins at the C.E. cor sur 5 and will run north as called for ,400 varas. The call is thence east 694 varas, which would bring the ".E. cor of 2 1/2 ,19.8 varas south and 21 varas east of the stake we set for the S.W. cor sur 36. But Mr.Williams call for the north line of his sur 35 1/2 ,4548.4 varas, will pass the S.W. cor 36 by 288.4 varas and conflict to that extent with the east part of sur 2 1/2. This position of sur 1 1/2,2 1/2, sur 5, sur 37.& 36, and 35 1/2 will leave an unsurveyed space between 36 and 5, This space Mr.Jessup applied to runcebase and at his request I rade field notes covaring this tract and

to purcahase and at his request I made field notes covering this tract, and forwarded a copy to your Office.

I believe the above covers all the facts in the determination of location of Flocks and surveys in question.

Certain matters had to be determined in the "ield, such as the better method of correcting the error in easting in west lines of surveys 46% 47 Flk 1 and the insertion of the 79 varas excess in sur 47, and the acceptance of thenrock mound at S.E.38 as the holding corner, and consequent shorten ing of the width of sur 536 1/2, but as all matters are referred to your Office for approval or correction it was thought better to settle these matters temporarily in the field so that the survey could be completed on the ground and all data reported at once in this report, Which is herewith respectfully submitted

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Ctate Surveyor

Alpine , Texas February 9 th 1919.

New Corners marke	ed in Block 1 I.& G.N.Ry.Co.	
N.W.cor sur 72, a	stake on the bank of the Pecos river from which a white spot on a bluff bears N 5°15'E West edge cap rock bears N 5°05'W.	
	North edge of cap rock hears S 58° 16'W, Crack in bluff above NE 69 hears S 45° 20'E	
S.W.cor 72, Stake	and rock mound from which	
	White spot on bluff bears N 3°00'E North edge cap S 84°25'E	
S.W.cor sur 71 Stake	e and rock mound from which South e ge cap bears N 88°05'W West edge cap bears N 2028'E	
N.W.cor sur 70, Roch	k mound from which	
	Pointed peak bears N 24°20'E North edge caprock bears 5 72°18'E	
S.W.corner sur 00,	Stake and rock mound from which North edge cap of flat topped Mt.bears N 71°W	
	Middle of pointed peak bears N 20°35'E White spot on bluff bears N 1°20'E	
N.E.corner sur 69,	Rock mound on west bank of the Pecos River from Boulder at foot of cap rock bears N 65° E	which
	East edge cap rock bears S 47°15'E West edge cap on pointed hill bears N 10°05'W	
N.W. cor survey 69	Rock mound marked N.W.64 bears S 1º 35'E 411 var a stake and rock mound from which	'as,
	West edge cap of pointed Mt.bears N 2º15'W South edge cap of flat top Mt.bears N 81ºW	
S.W.corner 69, a ro	Windmill bears N 73°35'W, ck mound from which	
	Middle of sharp topped hill bears N 1°50'W Cap rock N 80°E,	
N.W.corner survey 6	8 a rock mound from which % South edge flat top Mt.bears N 80°40'W	
	East alge Cap bears SO° 50'W Cap rock bears N 67° 45'E,	
S.W.corner sur 68	a rock mound from which	
	Cap bears 1 1° 5 North edge flat top mt.bears N 74° 35'W	
N.W.corner sur 67,	a rock mound from which	
	North cap of pointed peak bears N 65°30'W East edge cap rock bears S 3°W	
S.W.corner sur 67,	a rock mound, one rock marked "SW 67",	
N.W. corner sur 545	,a rock mound at west foot of hill, from which West end cap rock bears N 1°E,	
-	Sharp topped hill bears S 71°45'Wm	
S.W.corner sur 545,	a ock mound on south side of road, from which	
	North edge table top Mt. N 62°50'W Cap rock on east edge of gap bears S 9°50'E,	
N.W.corner sur 65,	Windmill bears S 79° 45'E, a rock mound on foot of slope from which	
	East edge gap hears S 13° 45'W Cap bears S 80° 05'W	a the
S W corner sur 65 a	Windmill bears S 77°24'W rock mound from which	12-1
Densournor but cogo	East point of caprock seen through gap bears N North edge cap bears S 89° 55W,	- 200 B
S.W.ODINGI Sur Obju		
5.w.oornor bar ooya	White spot on ledge bears N 70°05'E	aras.
	White spot on ledge bears N 70°05'E Rock mound marked"N.W.64" bears S 42°30'E 208ys 4 ,a stake in a flat from which West point cap rock bears S 49°30'E	aras,

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S.W. corner sur 64, a rock mound on east side of a rocky hill, from which Cap rock bears N 8º 35'E Windmill bears N 66°E N.W.cor sur 63, a rock mound on a ridge , on a flat rock, from which X on a ledge of rock bears S 40° 15'W 82 waras. N.W.sur 62, a rock mound on a ridge on east side of draw, from which one rock marked "N W 62", S.W.corner sur 62 ,a rock mound on a ridge, from which West side of a gap bears S 30°30'W Square boulder on rocky point bears N 75°57'W N.W.corner sur 61,a rock mound on east bank of draw in canyon, from which West edge cap bears N 12°50'W West edge small capped hill bears N 10° 45'E. S.W.corner sur 61,a rock mound on east slope of high ridge about half way down, marked "S W 61", f or which another rock mound bears east 184 waras, from which latter rock mound East edge of a cap rock hears N 19º 25'E, Boulder on a point bears S 38° 30'E, N.W.corner survey 60, a rock mound on east slope of west prong of Smith canyon, from which X on boulder bears N 56° 30'E 59 varas, S.W.cor sur 60, a rock mound on foot of ridge on north side of valley, from which White spot on cap rock bears S 83° 50'W, Projecting cap rock bears S 18°W, N.W.cor sur 59, a rock mound in a flat, from which Windmill at house bears N 48° 23'E. Cap rock bears S 70º 35'E S.W.cor sur 59 , a rock mound on north side of a Mt.near top, from which Windmill at house bears N 25'45'F Cap rock bears N 67º 20'E, N.W.cor sur 58,a rock mound in canyon on nosc between two draws, from which Windmill at house bears N 2°45'E,M Monument on Mt.bears N 19°W, S.W.cor sur 58,a Cap bears N 44°30'W, a rock mound on terrace at foot of hill, from which Windmill bears S 63° 10'W, Hole in rock at foot of bluff bears N 88° 45'W N.W.cor sur 544, a rock mound in valley from which Windmill bears S 85º 35'W South edge of bluff bears S18º 45'W about 400 varas, a rock mound bears S 9° 30'E 54 varas, S.W.cor sur 544, a rock mound in a flat, from which Small cave in ledge half way up Mt.bears South, Projecting cap rock hears N 89°W, Rock mound marked "SW 544"hears S 20°50'E 28 varas, N.W.cor sur 543, a large rock marked "SW 543" set in the ground with smaller rocks around it, S.W.cor sur 543, a rock mound on north slope of ridge, from which Cap rock bears N 35º 10'W Cap rock seen over hill bears N 5º 30'W. N.W.cor sur 55, a rock mound near edge of bluff, from which North edge of cap near white spot bears N 50° E, Point of brown spot on ledge below highest point of nose bears S 3° E, S.W.cor sur 55, a rock mound on top of hill, from which "S W 55" marked on flat rock bears East 1 yara, East edge bluff bears S 22°W about 200 varas, White spot on rim rock bears N 43º 10'E Sharp topped hill bears N 26°W, N.W.cor sur 54, a rock mound on top of ridge from which Foot of rim rock bears S 52° 30'E Cap rock north of white spot bears N 37° E S.W.cor sur 53, kock mound on north slope of ridge, from which Bluff bears N 10°45'E about 500 varas, East edge cap bears N 11°50'W, N.W.cor sur 52, a rock mound marked"N.W.52"from which square boulder on point bears S 70°50'E white spot on bluff bears N 32°05'E Rock mound bears S 63' 30'E 66 varas. S.W.cor sur 52, a rock mound from which sharp peak bears S 4º 30'E, Top point of bluff bears S 55º 15'E, Rock mound bears S 64º 30'E 72 varas.

14 N.W.cor sur 51, a rock mound on a mesa from which Bluff bears N 27º 47'R Cap rock bears N 19º 30'W, S.W. Sor sur 51, a rock mound on a narrow backbone, on large flat rock, from which Foot of bluff bears 5 58°E, Column of square boulders bears S 62° 30'W "S W 51" marked on flat rock bears N 70°E 2 varas, N.W.cor sur 43,a rock mound at foot of hill, from Cap rock bears S 54°45'E Cap rock bears S 4°W Rock mound bears N 5°W 37 varas, S.W.cor sur 42,a rock mound in a flat, from which Gable bluff bears N 75°E, N.W.cor sur 43, a rock mound at foot of hill from which Projecting perpendicular red bluff bears N 57º 15'E, Sharp rock capped peak bears N 28°W, South end of cap rock bears East, N.W.cor sur 41, a rock mound in a flat marked "N2 41", S.W.cor sur 41, a rock mound on rock ledge, on south side of canyon, from which middle one of three pointed hills bears N 3°15'E, cap rock bears S 78°35'W, N.W.cor sur 39, a rock mound on east side of canyon marked "N W 39". N.W.cor sur 38, a rock mound on west edge of canyon from which Pointed hill bears S 20° 50'E, Point of ledge on nose of hill bears S 88° 15'4, rock mound on a ledge, flat boulder near corner marked b.w.cor sur 38, a "SW 38" from which Cap rock bears N 29° 50'E Pointed hill bears S 33º 25'E. N.W.cor sur 37, an iron pipe and rock mound from which cap rock bears N 10° 15'E Gap in printed hill bears N 74° 15'W, Pinacle of bouldors on dyke bears S 12° 45'W Rock mound marked "S N 37" on south sideeof road, from which Square top pinacle bears S 25° 47'W S.W.cor sur 37 Gap in pointed peak bears A 30º 30'W East edge of cap rock bears S 24º 25'E N.N.cor sur 36, a rock set in the ground marked "AW 36" from which Projecting lower cap on nose of hill bears S 0°05'E, Projecting cap bears S 76°35'W, S.W.cor sur 36, a stake ina field from which a post marked X bears N 0° 53'E 42.5 varas, New corners marked in Block 193 Tex. & Mex. R.Y. 60. S.E.cor sur 5, a rock mound from which Pile of square boulders bears N 69º 30'W An in rourd hill bears N 39°W, N.E.cor sur 3, a rock mound on south line sur 5 fromwich Pinacle of square boulders bears N 46°30'W, Crack between boulders on rim rock bears S 19°20'W, S.W.cor sur 5 and N.W.cor sur 3,a rock mound on ridge at head of draw from which a bluff bears N 48°30'E another bluff bears S 73° 45'E, N.E.cor sur 4, a stake and rock mound marked N.E.4, set 85 yaras east of lower N.W.cor sur 5, Lower N.W.cor sur 5,a rock mound from which Pinacle of square boulders bears S 51º 40'E Bluff bears S 20° 25'W, N.W.cor sur 5, a rock mound on east slope of ridge, from which Pinacle of square boulders bears S 49º 15'E Bluff bears S 9° W Oil derrick bears S 4° W, N.E.cor sur 5, a rock mound in flat from which Rim rock bears S 78° W Pinacle of square boulders bears S 12º 45'E,

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counter 33809

(Boundaries of unsurveyed tract follow)

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Meanders of the Pecos River from N.E.corner 69, Bbock 1, I.& G.N.Ry.Co. from survey made Oct.& Dec.1918 by R.S.Dod, State Surveyor.

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Course N 58º 15'E	Dist.	N.	S.	E.		1	
N 76º 15'E	303.	159.3		257.5			
S 76° 45'E	160.	44.0	366.6				
S 79º 45'E	245.		43.6				
N 73º 30'E	578.	164.1	1	554.3			
N 80° E	213.	36.9		209.8			
S 60° E	91.0		45.5				
S 59° 35'E	249.	1.40	126.0				
S 33° E	30.	1 actives 1	25.1				
S 13° W	185.		180.2		41.6		
S 1º 45'E	65.		64.9	1.9			
S 41° 45'W	231.		172.3		153.8		
S 25° 45'W	375.		337.5		162.7	1	
S 84º 15'E	331.		33.2				
S 57° 45 °E	262.		139.6	221.4			
N 74° E	293.	80.5		281.5			
S 76° 45'E	190.		43.5	184.8			
S 54° 45'E	417.		240.6	340.5		S	E
N 79°45'E	163.	30.0		160.4		973.8	3074.4
S 63° 30'E	411.		183.3	367.8		43 19.6	38.4 S.E.69
			1.1			. 993.	3112.8
S 35° 35'E	100		Sec. a				
S 24º 30'E	188.		152.8	109.4			
S 48° 30'E	481.		437.6	199.4			
S 25° 30'E	47.		70.8	80.1			
S 52° 50 'W	179.		108.1	20.2	142.6	17.4 975.7	597.8
S 5° W	149.3		149.3		148.0		
East	2.			2.0	10.0	993.	596.2 S.E.68
S 4° E	193.		192.5	13.4			
S 0º 10'E	360.		360.0	1.0			
S 58° 30'E	352.	50 F	183.7	300.0			
N 79°45'E S 30°15'E	295.	52.5	200 0	290.3		815.7	593.1
S 68º 10'E	437. 368.		377.3	820.3		205.2 177.3	102.6
S 25º 10'E	290.		262.4	341.5 123.2		969	695.7 S.E.67
S 85° E	731.		63.6	728.0			
N 51° E	390.	245.5		303.0			
S 85º 30'E	384.		64.0	382.8			
S 75° 15'E	251.		22939	242.7			-
S 38° 30'E	239.		186.9	149.6			
S 86° E	291.		20.2	289.2	/ /		
S 66° 45'E	513.		202.6	470.9			
N 61º E	90.	43.6		70 0			
S 86º 15'E	102.	40.0	6.6	78.6			
S 56º 15'E	105.		58.4	87.2		942,4	3416.0
S 47º 30'E	549.		370.9	404.7		73.5 50.6	64.1
S 36° E	278.		224.9	163.4		993	3470.1 S.E. 545
S 24º 30'E	128.		116.4	53.1			
S 4° 05'W	199.	1	198.4		14.1		
S 17º 15'E	253.		240.6	74.9		1100.6	627.9
0.0545010			e state of the			112.7 107.6	33.3 SE.65
S 25° 30'E	178.		160.2	76.5		993	594.6
S 29° E S 39°45'W	344.		300.6	166.8			
S 48° 45'W	276.		289.0		240.9	1000 0	W.
S 40° 30'W	288.		219.3		250.3	1076.7	213.9
S 29° 45'E	172.		149.3	85.3	186.9	993.	95.3 118.6 S E 64
S 49º 45'W	252.		162.8	00.9	192.2	183.	118.6 S.E. 64
S 17º 45'W	202.		192.3		61.5		
S 21º 45'W	76.		70.5	Mar I	28.1		in the second second
S 27º 20 W	190.		168.7		87.2	1046.1	565.0
			and the second se		and the second se	1000.1	
S		856.4	7859.7	9359.1 7785.8	1573.3	59.8 53.1	27.5 +

						7.5		1
	~	1		P				IM
	🔍	e •	(2))		(14
Course	Dist.	N.	s.	Е.	w.	. S	Е	W
U OUL BO		rt frd	7003.3	7785.81		53.1		27.5
S 33° 30'W	244.		204.0		133.7			
S 41º 30'E	206.		154.3		136.3			
S 37° 30'W S 18° 30'W	342.		132.7		44.3			
S 27º 45'W	380.		336.3		176.9	1151.6		226.7
	1					179.2 158.6		83.3
			00.1		19.6	993.	S.E.62	643.4
S 16° 30'W S 26° 30'W	69. 271.		66.1 242.6		120.8			
S 22° E	237.		219.7	88.6				
S33° E	189.		158.3	102.8				
S 26° 25'E	86.		76.9	38.2				
S 20° 15'E N 84° 30'W	79. 58.	2.5	74.1	27.3	58.0	993.8		24.8
N ON DUM			8939.5	8042.7	897.6		7145.3	
			2.5	897.6				
			8937.0	7145.1				
C 404 IT	076	Contraction of the second	205.0	184.6				
S 42° E S 86°30'E	276. 310.		18.9	309.3				
S 53° E	350.		210.7	274.3				
S 82° 30'E	325.		42.2	321.7				
S 68° 30'E	215.		80.4	199.3	5. ·			
S 37° 45'E S 77° 30'E	239.		189.8 54.0	146.2 244.0	A	s.	Έ.	
S 38º 40'E	.302.		235.5	188.7		1036.5		
D 00 10 1		-			20	62.2 48.5	38.8	
S 83° E	444.		54.1	440.1		988.0	1829.3	S.E.60
S 23° E	22.		20.2	2.5				
S 22°45'E S 88° E	286.		3.4	126.9				
S 86° E	370.		25.7	368.8				
S 52° 30'E	394.		239.5	312.5				
S 3° W	161.		160.6	266.2	8.3	1079 1	1657.9	
S 45° 30'E	375.		262.5	200.2		128.7 90.1		
S 21º 45'E	530.		492.2	196.1		988.		
S 22º 45'E	329.		303.3	127.3				
S 46° 40'E	130.		89.1	94.5	70 0	975.7 12.6 12.3		
S 13° W	168. 770.		163.6	449.7	37.8	988.		
S 35° 45'E S 16° 45'E	191.		181.8	54.7		957.6	469.4	
S 8º 15'W	221.		218.5	KKX6	31.6			
S 16° W	523.		502.6	177 0	143.8	988.	460.8	Ψ.
S 71º 15'E	194.		62.4 236.2	133.7	27.8	988.3	ζ	61.0
S 6°45'₩	238.	-	4940.3	4551.8	249.3		4302.2	
		1 1 1 1 1 1		249.3	and the second			
				4302.2				
0 174 7	358.		348.7	80.5				
S 13° E S 55°45'E	388.		218.4	and the second se				
S 39° 30'E	114.		87.9	72.4				
S 36° E	289.	-	233.8	169.7		888.		
S 21° E	197.		183.7	70.5	151.0	65.6 61.9		
S 16° 30'W	532.		88.2	1	42.1		0.0.0	
S 29° W	224.		195.7	•	110.8	No.		W
)/S 53° E	56.		33.7		-		2 S.W. 54	
A			1900.2	753.2	.303.9	1900.	2 449.3	
1.1				449.3		4		

	A T	(3)		and the state				18.
							Q	. 01
Course Di	st. brt f	rd.	1200.2	£.449.3	w.		S. 1900.2	E. 449.3
S 53° E	62	XXXXX	37.3	49.5			1.000.13	140.0
S 1º 15'E S 12º 45'E	34. 80.		34.0	17.6				
S 9º 15'W	270.		266.5		43.2	;		
S 3° B S 45° E	340. 141.		339.5	17.6			854.5	141.8
S 7° E	266.		257.9	32.4		96	95.5	11.7
S 65° 15'E S 65° 15'E	235.		98.4 98.4	213.3 213.3			950.	153.5
S 65° 15'E S 26° 15'E	189.		169.5	83.5				
S 50° 45'E S 7° 15'E	239. 307.		151.3	185.0			948.5	754.5
5 7-10 E	507.	-				34.8	34.5	4.3
S 40° 45'E S 8° W	414. 263.		313.4 260.4	270.3	36.5		950.	750.2
S 54º 30'E	263.		152.5	214.0	00.0			
Ś 16° E South	162. 22.		155.6	42.5				
\$ 89° 40'W	164.		0.8		164.0			
south	11.		11.	14.0			950.	344.6
			2850.4	1941.3	243.7			1697.6
							N.E	.50
S 62º 05'E	265.		124.0	234.0				
S 55° E S 11°30'E	98. 149.		56.2	80.2				
S 45° 30'W	210.		147.2		149.8			
S 86°15'E S 9°45'E	194.		12.7	193.5 24.6				
S 3° E	215.		214.7	11.2				
N 77° E S 2°30'W	90.	20.2	124.8	87.7	5.4		950.2	505.7
		Provide State of Stat						· · · · · · · · · · · · · · · · · · ·
S 2°30'W S 67°45'E	385.		304.7	105.4	13.2			
S 1º 30'E	261.		260.9	6.8				W
S 7º 30'E S 39º 30'W	166.		164.3	21.5	145.6		950.9	25.1
		50 7			125.4			
B 67° 20'W N 60° E	136.	52.3		44.1	(100.4			
S 15º 10'E	438.		420.7	138.3	113.8			
S 28°10'E S 66°20'E	293.		35.8	78.0				
S 17º 15'W S 27º W	135.		128.9 144.6		40.0 52.6			
S 29º 15'W	46.		40.0		21.4		950.2	92.8
S 29º 15'W	210.		183.4		103.6			
S 64° W.	240.		105.2		215.6			
S 9°35'E S 43°40'W	142.		140.0	23.5	64.8			
S 44º 30'W	130.		92.7		91.1			
S 52° W S 76° W	53. 187.		32.6		41.7			
s kº k@'W	368.	1 . 4	362.0	****	7.2		1029.	681.9
S 1º 10'W	59.	10	59.0		1.2			
S 82° 50'E	126.		15.7	125.0				
S 66°25'E S 61°50'E	106. 264.		42.4	232.5	1	L.L.		
5 26° 50'E	204:		181.9	92.0	190.4			
S 59° 30'W S 11° 30'E	220. 300.		111.6	59.8	189.4			
S 38º 15'E	122. 29		95.7 25.2	75.5			950 5	505.3
S 29° 45'E	29	98.0	4928.3	1774.4	1563.2			
			98.0			C	4830.3	211 2 1
100			4050.3	211.2		S	4000.0	11.10 mg ()

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	14 - A	3	CRX (4)			0 '9.
Course. Dist.	brt frd	S. 4830.3	E. 211.2	₩.	· S 4830.3	E 211.2
S 29° 45'E 128 S 10° 10'E 185 S 8° E 156 S 15° 30'W 486 S 34° 30'W 42		$ \begin{array}{r} 111.0\\ 182.0\\ 154.4\\ 468.3\\ 34.3\\ \end{array} $	13.8 32.5 21.7		950.	W 85.5
S 349.30'W 143 S 45°10'W 332 S 7° W 227 S 29°45'E 176 S 60°50'E 173 S 48°30'E 23 S 33°15'E 110 S 25°45'E 32		118.1 234.0 225.1 152.7 84.2 15.2 91.9 28.8	87.3 151.0 17.2 60.2 13.8	81.0 235.3 27.7	950.	14.5
S 25°45'E 326 S 8°45'E 121 S 57°30'E 390 N 41° E 92 N 43°50'W 159	69.3 114.6		141.7 18.4 286.6 60.3	110.0		
N 5° 15'W 65 S 67° 30'E 51 S 46° 45'E 87 S 40° 30'E 90 S 54° 10'E 36 S 40° 45'E 370 N 48° 20'E 148 N 71° 35'E 375 N 75° E 110		19.5 59.6 68.4 21.0 272.8	47.1 63.3 58.4 27.1 241,6 110.5 355.7 106.2	5.9		
N 84° 45'E 72 S 55° 35'E 182 S 34° 30'W 13 S 43° 50'E 473 N 58° 50'W 152	78.5	102.8 10.6 341.0	71.7 150.1 327.5 2674.9	7.2 129.9 750.5		
		568.9	750.5		(015.0 T)	·24.4
S 64° 30'E 208 S 37° 50'E 172 S 38° 35'E 130 S 57° E 115 S 26° E 57	.5	89.6 136.2 101.6 63.5 50.3	187.6 105.8 80.8 96.3 26.7	.t.,	**	
S 3° E 412 S 45° 45'E 151	.5	411.1 105.7	21.4 107.5	,	958. 6	26.1 S.E.43
S 45° 45'E 41 S 16° E 171 S 52° 45'E 210 S 11° E 123 S 23° 45'E 375 S 15° 30'E 95		29.0 164.3 209.7 120.5 343.0 91.5	30.7 47.0 10.0 23.4 151.1 25.6		958. 21	87.8 S.E.42
S 15° 30'E • 14 S 14° 30'E 602 S 9° E 165 S 34° 10'E 240		13.6 582.7 162.8 198.9	3.7 150.5 25.7 134.6		958. 3	14.5 S.E.41
S 34°10'E 351 S 72°10'E 60 S 27°35'E 419 S 1°20'W 213 S 15°50'E 63		289.8 24.0 371.2 212.7 60.3	196.9 57.0 194.0 16.2	4.0	958.0 48	59.2 S.E.40
		3832.0	1692.5 1 4:9 1687.6	4.9	\$832. 16	

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the second second			-				
	A	1. A. A.		. (5)	7		D 20
Course.		Ň.'	S.	E.	W.		
		brt frd	3832.0	1687.6			
1							
S 15° 50'E	315.		303.3	87.0			
S 0º 10'W	74.		74.0		70.8		
S 26° 15'W	419:		412.6	10.1		789.9	16.0
South	164. 392.		146.9	XXXX	72.4		23.0
S 3º 15'W	117.		392.0 116.7		0 5	655.9	39.0 S.E.39
S 3° W			91.8		6.5		
S 1º W	75.		75.0	1	4.7		
N 89° W	31.	the second s	10.0		31.0		W
S 86° W	20:		1.5		20.0	057 1	S.E.38 158.8
~ ~ ~ "			1.0		20.0	507.4	S.E.00 100.0
East	51.			51.0			
S 13° 50'W	250.		242.7	01.0	59.7	242.7	8.7
S 16° 30'E	31.		29.8	8.8			S.E.536 1/2
S 14º 30'E	278.		269.2	69.5		~	D. D. 0000 1/2
S 10° 10'E	326.		325.7	57.4		619.7	135.7
S 25° 40'W	373.		336.0		161.5	54.3	And the set of the set
S 61° E	285.		138.2	249.1		674.0	
S 5º 15'W	280.		278.6		25.6		. S.E.356.
						698.5	
(N 44° 30'W3	a second s				(25.9)	26.3	
S 59° 30'E	266.		134.8	249.0		672.0	62.1 PecosSp.
S 60° 45' E	571.		278.6	497.8			N.E.37
N 80°45'E	175.			172.6			
S 32° 45' E	200.		168.0	108.0			
N 75° 50'3	423.			409.9			
N 48° 45'E	168.	110.7		126.3			
S 23° E	410.		377.2	159.9			
S 26° 15'W	231.		207.0	7077	102.0	950.	1647.4
		242.4	8226.6	3933.9	555.6	S 7984.2	3378.3 E
			242.4	555.6			S.E.37
			7984.2	3378.3			
S 26º 15'W	143.		100 2		07 0		
S 23º 15 'W	99.		128.3 90.8		63.2 39.0		
S 16° W	419.		402.6		115.3		
S 16° 45'W	431.		412.4		124.1		
~ 10 I	101.		1034.3		341.6	to IR rock.	
						1034.1	
						84.1	
						950.	E 1333.to River
					1		S.E.36
			-				
		1		1			
	~	N.	S.	E.	W.		
Lancaster							
N 89º 15'W	230				230.0		
N 36° 15'W	160				94.5		
N 37º 30'W	610				370.8		
N 37° 10'W N 18° W	3530 620				2132.1		
N 18° W N 14°15'E	240			59.0	191.6		
N TH TO F		4250.1		1 00.01	3019.0		
		1000.1		FOI ST	59.0		
					2960.0		
					10000		

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counter 33814

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Unsurveyed tract of State Land between Blk.1 , I.& G.N.Ry.Co. and Blocks west. Beginning at a point on the west line of survey 61 Blk 1,268 waras north from S.W.cor sd sur 61 Blk.l,point of inter section with east line of 33. Thence west 308 wrs to lower N.E.cor sur 33 Blk 194 south 950 " with east line 33 to an east cor of 33 with east line 33 to an east cor of 11 356 west 77 -950 south 19 -1166 east 11 11 to the S.E.cor si sur 33 285 south to N.E.cor sur 32 Blk 194, 5 11 east = 665 to an east cor si sur 32, south 11 east 1431 to with east line surs 32 & 31 to an east "" " 31 to an east cor 11 south 950 acro of 31 11 1040 east -11 11 & 30 30 12 31 950 south 21 11 11 11 11 30 425 east 11 11 11 17 71 30 30 950 south 17 . 11 30 11 30 285 east 12 11 30 to the S.E.cor ad sur 30, in south 950 north line of sur 1 Blk 178, " N.E.cor sd sur 1, 11 east 400 11 with east line 1, to an east cor of 1, south 950 256 12 east 11 south 950 11 east 65 11 11 950 south 11 11 564 east 11 11 to N.W.cor sur 2 Bhh 378. 950 south 11 north line of sd sur 2 546 11 to N.E.cor east 11 11 to an east cor of 2 south 950 east 12 11 east 318 12 12 950 south east X& 76 17 11 -2 8: 3 to an east cor of si sur 3 324 11 19 11 west 3 17 11 3 11 950 south 11 11 wèst 77 3 12 11 12 950 3 south 328 11 12 3 east 11 12 100 south 3 to the S.E.cor sur 3 in nbl sur 2 62 31.5" with north line sur 2 Blk C3 to N.E.cor " east " 2 to N.W.cor 10 Blk east 1800 11 south 193 " 10 to its N.E.cor. -920.5" north line east " 10 to an east cor of sur 10 Blk 193 988.8" 12 11 south east 1261. " " 10 11 11 B east south 1958.8" 19 11 9 & 10 to an east cor of sur 9, 161. " 17 11 11 east 9 to 11 11 11 453.4" south 9 to a point in the north line of sur 39 Blk 1, I & G.N.63 varas east of the N.W.cor sur 39 11 11 north line 39 to S.W.cor sur 41 Blv 1. 220 Thence east 19 west line 41 to N.W.cor 11 958 north 11 11 Bonth west 161 48 to 11 42 & 43 to N.W.43 north 1906 west line 11 west 1041 south line 44 to S.W.cor, 44 11 north 950 west line 44 to N.W.cor 41 1118 11 11 south line 45 to S.W. " west 45 17 950 west line 45 to N.W.cor north 45 Bast 186 nonth line 45 to S.W. 541 17 950 north west line 541 to N.W.cor 541 11 11 west 349 south line 542 to S.W.cor 542 11 11 north 950 line 542 to N.W.cor 542 west -19 340 north line 542 to S.W.cor 47 east north 1029 11 17 47 to N.W.cor 47 west line -11 11 77 47 to B.W.cor 48 east north line 11 11 48 north 950 west line to N.W.cor 48 east 324 11 17 48 to north line S.W.cor 49 99 11 north_ ,050 west line 49 to N.W.com 49 11 west 76518 11 50 to S.W.cor 50 south line = 22 north 950 west line 50 to N.W.cor 50 2 ml

counter 33815

(1)

(East side Unsurveyed State Land continued)

P

Thence

(2)

X	west	318	varas	with	the	south				51 to	5.W.	cor	51
	north	950	11	11		west	11	5	51		N.W.		51
So	west	546	Ħ	19		south	17	5	50		5.W.		50
	north	950	H	Ħ		west	17	Ę	52	t	o N.W.		52
Y		564	11	11		south	line	F	53	te	o S.₩.		53
da	west		11	n		west	line	ę	53	t	N.W.		53
	north	950	=			south	11		54	t	S.W.		54
	west	65		11		west	Ħ		54		o N.W.		54
	north	950	11	11			line		55		o S.W.		55
	west	216		T		south	11110		55	t			55
	north	950				west			13		D S.W		543
	west	400	n			south							543
	north	988	11	"		west			13	t			544
	west	285	n	11		south			14		0 S.W.		
	north	988	п .	"		west			14		0 N.W.	5 D	544
	west	445	11	11		-couth		and the second second	58		0 S.W.		2200
	north	988	17 12	n		west	line		58		0 N.W.		
	west	947	17	н ,		south			59		o S.W.		
	north	988	17	H		west	line	1	59	t	o N.W.		
	west	1439	11			south	17		60	t	o S.W.		
		988	11	Ħ		west	11		60	t	O N.W.	1	
	north	1171	11	11		south	=	1	61	t	o S.W.		
	west		=	=		west				o pl	ace of	2	
	north	268				4050							

South part of Unsurveyed tract. Beginning at the lower N.E.corner of survey 8 Blk 193 Tex.& Mex.Rv.Co.

Thence sout	h 1687.8	varas	with	east	line	of	sur	8	to	an ea	ast cor	8	
08.51	, 695	"		1		1111		0			17	7	
sout	h 955.3	"			п	8	& 7		to				
	1034	11		11	11		7		to		11	7	
		10		11	11	7	& 6		to		11	6	
Bou				11	. 11		6		tp		17	6	
Wes	29.5			. 17	11						11	6	
BOU	th 692.6	n					6		to				
eas		11		nör	th "		5		to		.E.cor		
		Π		0.00	+ 11		5		to	No.	.W. cor.		
eas		П		hor	th 1:	ine	1 1/2	3				7 Blk.	1
	And the second se	11		eas		1	37		to	N.W	.cor 3		
nor					th 1	ino	535		to	S.W.	53	5	
Wes		"					535			N.W.		5	
nor	th 672				t								
eas	t 29.5			nor	th l		535			S.W.			
nor		11		wes	t '	"	536			N. W.			
		17		nor	th 1:	ine	536		to	S.W.		6 1/2	
Gas		11		Wes		19	536	1/2	to	N.W.			L
nor					U .		38			S.W.		8	-
Wes.				BOU	023		38			N.W.		8	
Pior	th 958	"		wes								9	
Wes				sou	th 1	ine	35		to	S.W.			
	th 1108	11		Wes	t		39	to	poir	nt in	east 1	ine a	
WOS					t li	ne	8	to	pla	ce of	beginr	ing.	

FN. of unsurveyed land between BIK. 1, 1&GRY Co., and Surveys lying to the West,

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新田市市市

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Insted Feb 10. 1919

Pecos Co

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HARTER BREERESS

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loine, Texas. RAH

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1919

Mon.J. ... Robison isuioner en Land ustin , Texas Dear Sir,

I herewith submit report, on Resurvey of various Blocks of Land on the Pecce River above Steffield.

tion of the surveys was involved on account of junior surveys interventing theen surveys in the clier Blocks, the field notes not conforming either to older work or to facts on the cround.

I think we have so collated all the data that the questions at issues ray be intelligently passed on.

have tried to ocndense the report and avoid relating unnesessary tails of survey, and state only those fants that have a direct bearing on the location of boundaries.

Totation of boundaries. I have enclosed cories of field rotes for the applications for purchase rade by both "r.Yates and Mr.Holmes, explaining to these mon that I had no authority whatever in the matter, and made cut the field notes simply as a matter of convenience so that the matter could be intelligently wiscoused with your office. Any further explanation or information will gladly be furnished.

nequired, and within my ability. "espectfully

Radod

P.S.I am sorry " had to cut the Flat in two, but the men who paid for the survey wanted copies and my print frame would not take the whole map,

STATE ??

11/14/1997 TGLO ARCHIVES AND RECORDS

Pecos G. Sk. F. 41: P.2*

that in June times in Letter Back 1232 476

Die alse Dats report see

TAL YOU THE REAL

counter 76835

J. Ŧ

		1995 2 4.	12.75	IRX (4)		
Course. Di	et. N	ra 1	S. 4830.3	E. 211.2	₩.	S E 4830.3 211.2
S 10° 10'E S 8° E	128. 185. 156 486. 42.		111.0 182.0 154.4 468.3 34.3	13.6 32.5 21.7	129.8	4630.3 211.2 950. 86.6
S 45°10'W S 7° W S 29°45'E S 60°50'E S 48°30'E	143. 339. 827. 176. 173. 23. 110. 32.		118.1 234.0 225.1 152.7 84.2 15.2 91.9 28.8	87.3 151.0 17.2 60.2 13.8	81.0 235.3 27.7	950. 14.5
S 8°45'E S 57°30'E N 41° E N 43°50'W N 5°16'W	159. 1 65. 1	69.3 14.6 54.7	293.6 119.5 209.4	141.7 18.4 286.6 60.3	110.0	
N 48º 20'E		98.4	19.5 59.6 68.4 21.0 278.8	47.1 63.3 58.4 271 241.6 110.5		
N 75° E N 64°45'E S 55°35'E S 34°30'W S 43°50'E	110. 72. 182. 13. 473.	18.4 28.4 6.6 78.5	102.8 10.6 341.0	355.7 106.2 71.7 150.1 327.5	7.2	E 949.3 1813.2 N.E.43
	5		568.9 7679.6	2674.9 750.5 1024.4	750.5	7675.6 1924.4
S 37° 50'E S 38° 35'E S 57° E S 26° E S 3° E	208.5 172.5 130. 115. 57. 412. 151.5		89.6 136.2 101.6 63.5 50.3 '411.1 105.7	187.6 105.8 80.8 96.3 26.7 21.4 107.5	1	958. 626.1 S.E.43
S 11° E	41.5 171. 210. 123. 375. 98.		29.0 164.3 200.7 120.5 343.0 91.5	30.7 47.0 10.0 23.4 151.1 25.6	4	95P. 267.P S.E.42
8 9º E	14. 602. 165. 240.		13.6 582.7 162.8 198.9	3.7 150.5 25.7 134.6		956. 314.5 S.E.41
S 72° 10'E S 27° 35'E	351. 60. 419. 213. 63.		289.8 24.0 371.2 212.7 60.3 3832.0	196.9 ⁴ 57.0 194.0; 16.2 1692.5 1697.8	4.9	\$P32. 1607.6
-192				F. 4L		

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Gourse Dist. S 53° E S 1915'E 34. S 12°45'E 60. S 9°15'W 270. S 3° 340. S 45° 1414 S 7° E	39 ,88	1800.2 34.0 77.6 266.5	£449.5	w.	\$. 1900.2	E. 449:3
S 12°45'E 60, S 9°15'W 1 270, S 3° 8 340, S 45° E 141; S 7° E 266.		266.5			· · · · · · · · · · · · · · · · · · ·	
		839.5 99.6 257.9	17.6 17.6 99.6 32.4	43.,	854.5 96 95.5	141.8 11.7
\$ 65°15°E 235. \$ 65°15°E 235. \$ 26°15°E 189. \$ 50°45°E 239. \$ 7°15°E 307.		98.4 98.4 169.5 151.3 304.5	213.3 213.3 83.5 185.0 38.7		950.	754.5
S 40° 45'E 414. S 8° W 263. S 54° 30'E 263. S 16° E 162. South 22.		313.4 260.4 152.5 155.6 22.0	270.3 214.0 42.5	36.5	34.8 <u>34.5</u> 950.	4.3 750.2
S 89° 40'W 164. south 11.		0.8	14.0	164.0	950.	344.6
		2850.4	1941.3	243.7		1697.6
S 62°05'E 265. S 55° E 98. S 11°30'E 149. S 45°30'W 210. S 66°15'E 194. S 9°45'E 194. S 9°45'E 146. S 3° E 215. N 77° E 90.	80.2	124.0 56.2 147.0 147.2 12.7 143.8 214.7 124.8	234.0 80.2 29.7 193.5 24.6 11.2 87.7	149.8	950.2	505.7
S 2°30'W 385. S 67°45'E 114. S 1°30'E 261. S 7°30'E 166.		304.9 43.0 260.9 164.3	105.4 6.8 21.5	14.2		W
8 69° 30'W 230. 8 67° 20'W 136.	52.3	178.0		145.6	950.0	25.1
N 60° E 51. S 15°10'E 436. S 28°10'E 293. S 66°20'E 86.	25.5	420.7 258.0 35.8	44.1 138.3 78.0	113.8		
S 17° 15'W 135. S 27° W 154. S 29° 15'W 46.		128.9 144.6 40,0		40.0 52.6 21.4	050.2	92.9
S 29% 15'W 210. S 64° W 240. S 9° 35'E 142. S 43° 40'W 94.		183.4 105.2 140.0 67.9	23.5	103.6 215.6 64.8		1
8 44°30'W 130. S 52° W 53. S 76° W 187. S 4° 10'W 362.	-	92.7 32.6 45.2 362.0		91.1 41.7 181.4 7.2	1029.	862.9
S 1º 10'W 59. S 82º 50'E 126. S 66º 25'E 106. S 61º 50'E 264. S 61º 50'E 264.	ř.	59.0 15.7 42.4 124.6 181.9	125.0 96.7 232.5	1.2		
S 59°30'W 220. S 11°30'E 300. S 38°15'E 122. S 29°45'E 29	-	111.6 293.9 95.7 25.2	92. 59.8 75.5 14.4	189.4	. 950 . 5	05.3
180	98.0	4928.3 98.0 4830.3	1774.4 1563.2 211.8	1563.2	s 4P30.3	211.2 4

Pecos Co. SK.F. 41, P.19 11/14/1997 TGLO ARCHIVES AND RECORDS counter 76853

Course	Dist.	N. rt fra	S. 7003.3	E. 7785.81	₩. ,		S	E	WAS
S 33*30!W S 41*30!W	244.		204.0		133.7	+ · ·	53.1		87.
S 379 301W	206.		154.3		136.3				
S 18º 30 W	140.		132.7		44.3				-
5727*45'W	380.		336.3		176.9		1151.6		286
	1 . 3					170.2	158.6		83.
S 16º 30'W	89.		66.1		19.6		993.	S.F.62	§43.
S 26º 30'W	271.		242.6	1. 1.	120.8				
S 22° E S33° E	237.		219.7	88.6				;*	1
S-26º 25'E	86.		76.9	38.2					.7
S 20* 15'E	79.		74.1	87.3					1.12
N 84 30'W	58.	2.5	8939.5	0010 0	58.0		093.8		24
			2.5	8042.7 897.6	807. R		8037.0	7145.3 5	5.E.
Keeling .			8937.0	7145.1	-			:	1.
S 42. E	276.		205.0	184.6					
S 86'30'E	310.		18.9	309.3				1. A.	1.5
S 539 E S 82º 30'E	350.		210.7	274.3					
S 68 30'E	325.		42.2	321.7	S. Car			*	1.10
S 37 45'E	. 239.		189.8	199.3					
S 77º 30'E S 38º 40'E	250.		- 54.0	244.0:	Also.		s.	E	
5 00-40.E	302.	-	235.5	188.7		20.0	1036.5	1868.1	
S 88 E	444.		54.1	440.1	7.9	62.2	49.5	38.8 1829.3 S	. E.
S 23° E S 22°45'E	22.		20.2	2.5				1000.0 0	
S 88° E	286.		265.6	110.4 126.9					1
S.86º E	370.		25.7	368.8					
S 52º 30'E S 3º W	394.		239.5	312.5	;			· · · · ·	· · · · ·
S 45 301B	375.		160.6	266.2	8.3		1078.1	1457.g	
in charles and and		14				128.7	20.1	91.6	- 3:
S 22+45'E	530. 329.		492.2	196.1			988.	1566.3	
5 46º 40'E	130.		303.3	127.3	1		975.7	E00 4	13
S 13° W	168.		163.6	1	37.8	12.6	12.3	509.4	- Barris
S 35° 45'E S 16° 45'E	770.		624.5	449.7			000.	506.6	
S 8º 15'W	221.		181.8	54,7 32XX8	31.6	31.6	957.6 30.4	469.4	
\$ 16° W \$ 71° 15'E	523.		502.6		143.8		988.	460.8	1
S 6º 45'W	194.		62.4 256.3	133.7	0.00				W
		-	4940.3	4551.6	277.@		988.3	4302.2 N	61
				249.3				4000.0 1	;
				4302.2				1 1 1 1	
S 13º E	358.		348.7	80.54					
S 55° 45'E S 39° 30'E	388.		218.4 87.9	314.4					1
S 36° E	289.		233.8	72.4			8.993	. 637.0	
S 21° E	197.	1	183.7	70.5		65.6	61.0	23.5	
S 25º 30 W	532.		510.1	1	151.0		950.	PR0.5	
S 29° W	224.		195.7		110.8				m
S 56 E	58.		33.7	45.7	1.2.1		950.2		eii
			1900.2	753.2	303.0		1000.3	449.3	No.
				449.3		5			in
Here and the second									150
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and the second second						40.		25 32	
			:			.15.	·	5.5	1
IH DE Car	1. 2		1 section	A		Later.	so and she		
11/1	S. Partice 4	Marsh Strict 2	A ACALTER	the in a site	in min	S. Sals	Star Barriel	Contraction of the	5125

11/14/1997 TGLO ARCHIVES AND RECORDS counter 76852

	ŕ	ron N. M.	Meanders cornar 69 om survey by R.S.	, Bhock 1 nada 00 Dod,	, I.& G.	N. Ry. Co.	• This	
Course N 58° 15'E N 78° 15'B S 76° 45'E S 79° 45'E N 73° 30'E N 80° E S 60° E S 59° 35'E S 33° E S 13° W S 1° 45'E S 41° 45'W S 25° 45'H S 64° 15'E S 57° 45'E	Dist. 305. 186. 160. 245. 578. 213. 91.0 249. 30. 185. 65. 231. 375. 331. 262.	N. 159.3 44.0 164.1 36.9	S. 35566 43.6 45.5 126.0 25.1 180.2 64.9 172.3 337,5 33.2 139.6	E, 257.6 180.6 155.7 241.1 554.3 209.8 78.8 218.6 16.3 1.9 329.3 221.4	¥. 41.6 153.8 162.7	1		
N 74° E S 76°45'E S 54°45'E N 79°45'E S 63°30'E	293. 190. 417. 163. 411.	80.5	43.5 240.6 183.3	281.5 184.8 340.5 160.4 367.8		8 973.0 43 <u>19.6</u> 693.	E 3074.4 38.4 3112.8	S.D.A
S 35° 35'E S 24° 30'E S 48° 30'E S 25° 30'E S 52° 50'W S 5° W East	188. 481. 107. 47. 179. 149.3 2.		452.e 437.e 70.e 42.3 108.1 149.3	109.4 199.4 PO.1 20.2 2.0	<u>142.6</u> 13.0	17.4 975.7 17.3 993.	1.4	S.E. 68
5 4° E 3 0° 10'E 5 58° 30'E N 79° 45'E S 30° 15'E S 68° 10'E S 25° 10'E S 85° E N 51° E S 85° 30'E S 75° 15'E	193. 360. 295. 437. 368. 290. 731. 390. 384. 251.	<u>52.5</u> 245.5	192.5 360.0 183.7 377.3 136.9 262.4 63.6 64.0 22999	13.4 1.0 300.0 290.3 320.3 341.5 123.2 728.0 303.0 382.6 242.7		815.7 205.8 177.3 003	102.6 695.7	.E. 67
S 38430'E S 86° E S 66°45'E S 86°15'E S 86°15'E S 56°15'E S 47°30'E S 36° E	239. 291. 513. 90. 102. 105. 549.	43.6	186.9 20.2 202.6 6.6 58.4	149.6 289.2 470.9 78.6 101.7 87.2 404.7		940.4 77.5 50.6	54.1	
S 24° 30'E S 4° 05'W S 17° 15'E S 25° 30'E S 29° E S 39° 45/W	278. 128. 199. 253. 178. 344. 276.		224.9 116.4 198.4 240.6 160.2 300.6 289.0	163.4 53.1 74.9 76.5 166.8	14.1	1100.6 110.7 <u>107.6</u> 093	33.3 594.6 W.	S. 2. 545 SE. 65
\$ 48°451W \$ 40°301W \$ 23°45'E \$ 49°45!W \$ 17°45!W \$ 21°45!W \$ 27°20!W \$	333. 288. 172. 252. 202. 76. 190.	856.4	219.3 218.8 149.3 162.8 192.3 70.5 168.7	85.3	250.3 186.0 192.2 61.5 28.1 87.8 1578.3	1076.7 127. <u>33.7</u> 993. 1046.1 59.6 53.1	213.9	5, 6, 64

Pecos Co. SK. F. 41, P. 17

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Determination of excess easting in Block 194 By actual survey of meanders of Pecos rom orig N.E.43 Bik 1, west to N.E.50, " N.E.50 " to orig. N.E.55, " N.E.50 " " N.E.60. 1984.4 1696.6 N.E.50 4308.2 N.E.60, 7923.2 " N.E. 80 , east to . N.E.62, 668.1 actual measurement 7255.I from N.E.62 west to N.W.62 4243.9 N.W.62 " N.E.34 Blk 194 422.0 N.W.33 " S.W.5 " 2023.5 N.W.33 S.W.5 11400.0 25343.6 25343.6
 From ofte N/E.43 Blk 1, west to wbl 42 & 43
 3801.0

 "wbl 42, west to ebl 9 & 10 Blk 193
 220.0

 "ebl 9 Blk 193 to N.E.45 Blk A2
 1961.5
 220.0 2/81.5 15 orig N.E.43 A2 to orig N.W.5 C3 5760.0 N.W.5 03 to orig N.W.3 C4 call 13300.0 25042.5 25042.5 Excess in 7 miles 301. 1 43.0 varas Determination of width of unsurveyed State Land lying between west From meanders above, from N.E.43 Blk 1, to N.E. 62, west to N.W. 62, " to N.E. 33 Blk 194 7255. N.E.62 N.W.62 " 4243. . 164. 11 N.E.33 "194 tp N.7. 33 " " 2023.5 13685.5 13685.5 From N.E.43 Blk 1 to Wbl 43 " wbl 42 to ebl 9 blk 193 " ebl 9 to N.E.43 A2 " N.E.43 A2 to N.V.5 C3 " N.W. 5 C3 to wbl 8 C3 3801. ₩b1 43 220. 1961.5 5760. 1943. 13685.5 18685.5 From: wbl 62 Blk 1, to N.E. 33 Blk 194 N.E.33 Blk 194 to 2nd N.E.33 " 164. 500. 664. S.W.62 to N.W.61 Blk 1, 356. Width of unsurveyed sract on north, 308. varas. Note, The S.W. cor sur 5 Blk 194 was located due north of original N.W.3 C4 The distance east ,6 miles to N.E.38 and or to N.E.34 was actuallu measured and marked on the ground. The true location of N.E.28, under my instructions is due north of S.W.8 03. : 2 Therefore we located the original N.E.43 A2, and N.W.5, N.E.8, on the ground, found the average excess from that point to N.W.3 04 to be 43 waras, and placed N.W.33 258 waras east of actual distance from S.W.5, or due north of S.W.8 C3. (Boundaries of unsurveyed tract follow)

11/14/1997 TGLO ARCHIVES AND RECORDS

Counter 76850

W. cor sur 51, a rook mound on a resa from which ! W. Sor sur 51, a rock mound of a narrow backbone, on large flat rock, from which Foot of bluff bears S 58°E, "S W 51" marked on flat rock bears N 70° E 2 varas, W.cor sur 43, a rock mound at foot of hill, from which Cap rock bears S 54º 45'E ante. Cap rock bears 5 4° W . Rock mound bears N 5° W 37 varas, 1.34 S.W.cor sur 42, a rock mound in a flat, from which Gable bluff bears N 75°E, Projecting perpendicular red bluff hears N 57º J5'E, Sharp rock capped peak bears N 28º W, 18 6.1 South end of car rock bears East, N.W.cor sur 41, a rock mound in a flat marked "N2 41" S.W.cor sur 41 , a rock mound on rock ledge, on south side of canyon, from which middle one of three pointed hills bears N 3º 15'E, cap rock bears S 78º 35'W, N.W.cor sur 39, a rock mound on east side of canyon marked "N W 39", N.W.cor sur 38, a rock mound on west edge of canyon for which is. Pointed hill bears S 20° 50'E, Point of ludge on nose of hill bears S 80° 13'd, 5.4.cor sur 38, a rock mound on a ledre, flat toulder near corner marked "SW 38" from which Cap rock bears N 200 50'E, Pointed hill bears S 330 25'E, N.W.cor sur 37, an iron pipe and rock mound from which cap rock bears N 10º 15'5 Gor ir printed hill bears N 74º 15'W, Pinacle of bouldors on dyke bears 5 12° 45'W Rock mound marked "S / 37" on south sideeof road, from which S.W.cor sur 37 Square top pinaole hears S 25° 47'7 Gap in pointsi peak bears & 30° 30' Projecting lower cap on ross of hill bears S C° C5'E, Projecting our bears S 76° 35'W, S.W.cor sur 36, a stake ina field from which a post marbod X bears N. 0° 53'E 42.5 varas, 5 44 New corners marked in Plock 193 Tox. ? Mex.R.Y.Gr. S.E.cor sur 5, a rock mound from which Pile of square boulders hears N 60° 30'W fan 'n mourd bill bears N 30°W, N.E.cor sur 3, a rock mound on south live sur 5 frorwich Pinacle of square houlders hears N 46° 30' ", Crack between boulders on nim rock hears S 19° 20' ", S.W.cor sur 5 and N.W.cor sur 3, a rock mound on ridre at head of draw from which a bluff bours N 48° 30'E another bluff bears S 73º 45'E. N.E.cor sur 4,a stake and rock mound marked N. 2.4, set AF yaras east of lower N.W.cor sur 5, hower N.W.cor sur 5; a rock mound from which Pinacle of square boulders bears S 51º 40'E Bluff bears S 20º 35'W. WW.cor sur 5, a rock mound on east slope of ridge, from which Pinacle of square boulders bears S 45° 15'E Bluff bears S 9° W 011 derrick bears S 4°W, N.E.cor sun 5, a rock mound in flat from which Rim rock bears S 78°W Pinacle of square boulders bears S 18°45'E, A P CHARACTER AND AND STATES IN A TECOS Co. Sk.F. 41, P.15 11/14/1997 TGLO ARCHIVES AND RECORDS counter 76849

aur 64, a roof mound on east side of a rooky hill, from whi Cap rock bears N 8.85'E Windmill bears N 66°E a rock mound on a ridre , on a flat pock, from which " X on a leige of rock bears S 40° 16 W 82 varas, cor sur 63, sur 62, a rock mound on a ridge on east side of draw, from which one rock marked "N W 62", S.W. corner sur 62 , a rock mound on a ridge, from which West side of a gap Mears S 30° 30'W Square boulder on rocky point bears N 75° 57 W goorner aur 61,a rock mound on east bank of draw in canyon, from which West edge car bears N 12° 50 W West edge small capped hill bears N 10°45'E, S.W. corner sup 61,a rock mound on east slope of high ridge about half way down, marked "S W 61", f or which another rock mound bears east 184 waras, from which latter rock mound East edge of a cap rock hears N 19º 25'F. Boulder on a point hears S 38º 30'E, N.W. corner survey 60, a rock mound on east slope of west prong of Smith canyon, from which X on bouldor bears N 50° 30' 3 59 varas S.W. cor sur 60, a rock mound on foot of ridge on north side of valley, from which White spot on car rock bears S. 83° 50'W, Projecting car rock bears S 18º W. N.W.cor sur 59, a rock mound in a flat, from which Windmill at house hears N 48°23'E, Car rock bears S \$0°35'E S.W.cor sur 59 , a rock mound on north side of a Mt.near top, from which Windmill at house tears N 25° 45'F Cap rock bears N 67º 20'E, N.W.cor sur 58, a rock mound in canyon on nos: between two draws, from whi Windmill at house bears N 2º45'E,M 1 Monument on Mt. bears N 19º 7, S.W.cor sur 58,a Cap bears N 44º 30 119, a rock mound on terrace at foot of hill, from which Windmill bears S 63º 10'W, Hole in rock at foot of bluff bears N 88º 45 'W N.W.cor sur 544, a rock mound in valley from which Vindmill bears S 85'35' South edge of bluff hears S18º 45'W about 400 varas, a rock mound bears S 9º 30'E 54 varas, S.W.cor sur 544, a rock mound in a flat, from which Small cave in ledge half why up Pt. Fenry Fouth, Projecting cap'rook hears N SPOW, Rook mound mark d "SW 544" hears S 20° 50' F 2P varas, N.W.cor sur 543, a large rock marked "S7 543" set in the ground with smaller rocks around it, S.W.cor sur 543, a rock mound on north slope of ridre, from which Cap rock haars N 350 10 1 Cap rock sein over hill bears N 5º 30'7. N.W. cor sur 53, a rock mound noar adro of bluff, from which North edge of cap rear white srot bears N 50° E. Point of brown and on ledge balow hickest point of nose bears 5 3° F, S.W.cor sur 55, a rock round on tor of hill, from thick "S 3 55" marked on flat rock hears Dast 1 vara, East edre bluff boars 5 2307 about 200 varas, Thite spot on rim rock baars N 430 10'E Sharp topped bill bears N 200 %, N.W.cor sur 54, a rock mound on top of ridre from Trich Foot of rim rock hoars S Fresc'E Cap rock north of white spot bears N 3" E 5.W. cor sur 53, mock mound on north slore of ridge, from which Bluff bears N 10°45'E about 500 varas, square houlder or point bears 5 70° CO'E white spot on bluff bears N 50° CO'E Rock mound bears 5 63° 30°E 66 varas, 5.W.cor sur 52, a rock mound from which sharp reak bears 5 4" Top point of bluff bears 5 55 15'E, Rock mound bears 5 for 30'E 72 waras.

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New Corners marked in Block 1 I.& G.N.Ry.Co. .W. cor sur 72, a stake on the bank of the Pecos river from which a white spot on a bluff bears N 5º 15'E West edge car rock hears N 5º 05'W, North edre of cap rock hears S 580 18'W Crack in bluff above NE 69 boars S 45° 20'E Stake and rock mound from which S.W.cor 72. White spot on bluff bears N 3°C6'E North edge cap S 84°25'E S.W.cor sur 71 Stake and rock mound from which South e ge cap bears N 88º05'W West edge car bears N 2020'E N.W.cor sur 70, Rock mound from which Pointed peak bears N 24º 20'E 6 minut North edge caprock bears 5 720 18'E S.W.corner sur 20, Stake and rock mound from which North edge cap of flat topped Mt.bears N 71°W Liddle of pointed reak bears N 20°35'E White spot on bluff bears N 1º 20'E N.E. corner sur 69, Rock mound on west bank of the Pecos River from which Boulder at foot of car rock hears N 65'I East edge car rock hears S 47'I I'E 13 West edge car on pointed hill boars H 10º 05 W Rock mound marked N.W.C4 bears S 1º 35'E 411 varas. N.W. cor survey 69 a stake and rock mound from which 710 West edge cap of pointed Mt. bears N 2º 15'W South edge car of flat top Mt.bears N 81°W Winimill bears N 73°35'W, S.W.corner 69, a rock mound from which Middle of sharp topred hill bears N 1º 50'2 Cap rock N 80° E. N.W.corner survey 68 a rock mound from which MR South edge flat top Mt. bears N PC 4C'W East afre Can hears SO' 50'W à., Cap rock bears N C7º 45'E. S.W.corner sur 68 a rock nound from which Cap bears 1 1° 2° North edge flat top at.bears N 74° 35'W N.W.corner sur 67 ,a rock mound from which worth cap of pointed peak bears N C3º 30'W Last edge car rock bears S 5ºW S.W. corner sur 67, a rock mound, ors rock marked "SW 67". .N.W. corner sur 545, a rock mound at west foot of Fill, from which West end cap rock bears N 1'E, Sharp topped hill bears S 71º45'Wm ock mound on south side of road, from which North edge table top 't. P for soin Cap rock on east edge of rap hears S 0.50'E, Windmill bears S 70.45'E, S.W.corner sur 545.a N.W.corner sur 65, a rock mound on foot of slore from which East edge car bears S 13º 45' T Cap bears S 80º 05'W Windmill bears S 770 34 'W' S.W. corner sur 65, a rock mound from which East point of caprock scen through par bears N 24 North edge cap bears S 20° 55%, White spot on ledge bears N 70° 05'E Rock mound marked "N:W. 64" bears S 42° 30'E 208yaras W. corner survey 64 , a stake in a flat from which West point car rock hears S 49º 30'E Windmill bears N 80º 30'E CLASS MERCENCE STORES ALC Pecos Go, SK.F. 41, P. 13

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191 Report on resurvey of Blk 1, Decos Fiver

hool land.

Our measurement showed 52.15 varas excess in northing per mile, or 3,06 waras per 100. This was distributed along the line of Blk 193, and thrown into surveys 10,8,6,1 4, and surveys 9,7, retaining their original calls, but then we came to survey 5 we had to include this excess in northing in surkey 5 or tear it from its connection and relative position to 4 and 6. Also the excess being put into 4 and 2, we had to put it into 3.and 1 aswell.

The details of this change in northing are given on the plat. This survey and calculation showed that the east part of the north line of Survey 5 was 390.7 south of the south line of survey 37 as described above. And that the N.E.corner of survey 5 was 715 waras west of the west line of Survey 37.

We put in the corners of sur 5 from these calls, corners and bearings are given in the attached field notes.

Survey 1 1/2 calls for both the middle east cor of sur 5 and for the N.W. corner of survey 36, but as my instructions were to disregard calls for the river block in construction of surveys tied to Blocks and corners on the west, we started survey 1 1/2 from the middle cor of sur 5. Sur 1 1/2 calls to run north 400 waras which will reach a point 9.3 waras north of the South line of survey 30, as 37 is the senior survey it will hold over sur 1 1/2, but west of survey 37, between its west line and the upper east line of sur 5 it can take its full distance of 400, waras and was so put in.

The location of the town of Sheffield has already been reported on, and in connection with this report all data necessary to determine its location have been reported.

The lines run and connections made with sur 5, sur 1 1/2 sur 36 and the river at S.E.36, show that survey 2 1/2 berins at the 7.E. cor sur 5 and will run north as called for ,400 varas. The call is thence east 694 varas, which would bring the ".E.cor of 2 1/2, 19.8 varas south and 21 varas east of the state we set for the S. 7.cor sur 36.

But Mr. Williams call for the north line of his sur 35 1/2 ,4548,4 waras, will pass the S.W.cor 36 by 288.4 varas and conflict to that extent with the east part of sup 2 $1\sqrt{2}$.

This position of sur 1 1/2,2 1/2, sur 5, sur 37.4 36, and 35 1/2 will leave an unsurveyed space between 36 and 5, This space Mr. Jessup applied to purcahase and at his request I made field notes overing this tract, and forwarded a copy to your Office. I believe the above covers all the facts in the determination of loca?

tion of "locks and surveys in question.

Certain matters had to be determined in the "jeld, such as the better method of correcting the error in easting in west lines of surveys 468 477. Fik 1 and the insertion of the 7? varas excess in sur 47, and the acceptance of thenrock mound at S.E.38 as the holding corner, and consequent shorten ing of the width of sur 536 1/2, but as all "atters are referred to your" of Office for approval or correction it was thought better to settle these matters temporarily in the field so that the survey could be completed on

the ground and all data reported at once in this report, Which is herewith respectfully submitted

Redod "tate Surveyor

counter 76896

Alpine , Texas February 9 th 1919.

Con SK. F. 41, P.12 11/14/1997 TGLO ARCHIVES AND RECORDS

Report on Resurvey of Blk 1 Pecos river;

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the field note calls, while on the west we had an excess of 79 waras in the 6 miles. This might be a difference in variation used, only that our variation was first taken from the bearings of N.W.3 Blk C 4, and tested on corners in Blk 1, and on bearings at S.W.6 Blk C3, The meridian through Blocks 178 and 194 would under my in structions, run

632

from the N.W.cor sur 7 C3 to the west line sur 33 Blk 194.

Thes will place the N.E.cor sur 34,238 varas east of its location from the west and 164 waras west and 11 waras north of our N.W.cor sur 62 Blk 1. The calculation on which this is based is attached to this report.

This shows that the east line of sur 34 will reach the north ling of sur 61 at 1004 varas south from N.E.cor 4, at a point 192 varas east of W.Gl. This shows a tract of unsurveyed land lying between surveys No3, 101. 102.

103.104. on the north, Surveys 34, 35, 36, 37, on the south, and surveys 61, 62, 63. 5.64 on the east.

I attach field notes showing exact location and acreage of this tract. Mr. Ira G. Yates has made application for survey and purchase of this tract and as a matter of convenience I have rade the field notes to cover this application.

Unsurveyed land between Block 1 and Blocks 194 and 178 and 193. The abave calculation of the position of N.E.cor sur 34 relative to the west line of Blk 1 I.& G.N.Ry.Co, based on the actual measurements above note show that the lower N.E.cor sur 33 B1+ 194 is 308 varas west and 253 varas north of the S.W.cor of sur 61 Block E. From this S.W.cor sur 61, the west line of Blk 1 has been described as run out subject to approval of your Office. The east line of Blk 194 will run course and distance as called for if its field notes, as shown on Plat, until it reaches the S.E.cor sur 31, here we find that the S.E.cor of suril is placed 2866.5 waras east of the east line of survey 21, which under my instructions to project meridians from corners in C3, will be 1943 waras wide hence the call on east line of 31, "east

997", must be increased 43 varas to 1040 varas. Again the distance from S.E.36 to N.E.35.Blk 178 is given in the field note of 1k 178 as 488 varas but when we insert the 20 varas per mile excess in surveys 34 & 35, found between N.W.6 and N.E.3 Blk C3, this distance becomes 528, and to preserve the relative distance of east line of sur & blk. 178 and east line of sur 35 same block we must in crese the call east 216 on eastline sur 1, to 256.

At S.E.3 block 178, original field notes show south line of 3 as 1888.5 vrs which would be 11.5 waras west of N.E.cor sur 2 Blt C3, but survey 2 Blk C3 is 1920 varas wide making it 31.5 from S.E.3 to N.E.2 Blk C3.

When we reach the north line of survey 39 Blk 1, we find 383 waras westing from S.W.41 to N.W.39, and only 220 waras to the east line of survey 9 Blk 193 consequently there is a slight conflict here and no vacancy, but the vacancy, opens out again on the east line of sur 8 where this east line receives west-ward. When we reach the north line of sur 1 1/2 we find it extending 9.3 vrs north of S.W.cor sur87.

The details of the east and west lines of these tracts are attached to this report.

I was instructed to resurvey part of this tract as surveyed for Mr. Nolke by the County surveyor of Pecos "o. and I attach field notes covering this part of the unsurveyed land up to the south line of survey 44 Blk 1, where the field notes of Mr. Nolkes survey stopped according to the palt furnished me from your Office.

Mr. Holmes applied for 1280 acres of this strip to the Co. Sur. of Pecos Count and I have made out field notes covering this 1290 which he wishes to buy.

Mr Yates has applied to purchase 1280 acres out of the north part of this strip and I made him field notes to cover this part of the survey.

Of course these field notes of Mr. Holmes and Mr. yates conflict, but as I had no authority whatever in the matter of determining the rights of the par ties under their applications , I made the field notes so that there would be some definite basis for settlement or discussion.

Location of surveys in Block 193 Tex.& Mex. Hy. Co.

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The field notes of Block 193 show that its south line is an extension west from the A.E.cor sur 32 314 1, and its north line is 100 waras north of the north line of sur 1 Blr 33, the S.E.cor of sur 1 Blr 33 being also the N.E.cor sur 45 Blk A2, above described. On connecting N.E.43 A2 with the Lancaster corner it appeared that there was considerable excess in 48 northing between these points, and I was instructed to distribute this excess pro rata among surveys in BIV 193, but to throw this excess into the adjacan

The above facts show the relative position on the ground of survey No 3, by following the calls of the original field notes, and I have made out field notes for corrected survey of No 3 on these data, showing a shortage of 167.2 acres ; or content of 4260.8 acres instead 4428 acres.

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But in as much as the evident intention of the original survey of No 3 was to take all the land immediately west of Blk 1, and as the original surveyor made no corners on the ground, It is possible that you may think it

proper to extend the calls east for Sur No 3, to include the three ten vara strips of unoccupied land between west lines of 68,67,545, and east line 3. -Consequently I have made a set of corrected field notes based on this extension as carrying out the intention of the original surveyor and attach them to this report, showing 4270 acres in No 3, under this construction,

Location of north line of Block 194 G.C.& S.F.Rv.Co.

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The north line of this Block was located from its calls on the west, under my instructions from your Office, and was reported as mart of the preliminary sur

We started at the original N.".cor sur 3 in Blk C4, a rock mound with 3 mountain bearings. It is also the S.W.cor sur 25 Blk 179, and S.E.cor sur 2 2 Blk Z, It is described as on a hill with a stone capped mountain in the valley N 25° W, another S 50° E, another South 150° varas, We found the mound on the hill and the bearing on the hill in the valley is unmisstateable, and the hearing S 50° E also fits.

We ran north from this point 8 miles and connected with a line we ran east from original N.E.33 blk 2, the intersection of these lines save an excess in northing of 106 varas in the 8 miles.applying this pro rata to the surveys in Block 178 and 194, we located a.w. cor sur 5 Bly 104, at 11479 waras north ofN.W survey 3, Blk 04, as above described.

From this point we ran east and north as before reported, along the north line of Block 194, by placing the north corners of surveys 37, 36, 35, & 34, by the distances called for in their field notes east from the east line of Blk Z. On reporting that there was a line of original corners running east and south from N.W.3 C4, through Blk C3 to N.B. cor sur 43 blkock A2, I was instruct ed to make the width of surveys in Blk 175 and Blk 194, east and west, accomo-date teself to the calls for these C 3 surveys on south line of Blk 178.

On connecting our S.W.cor survey 65 with the south line of Runnels Co.No3 as above related ,we found that the N.E.cor of sur 104 T.C.Ry. co.under the field notes of 101,102,103,104,would be 7600 varas east of the S.W.cor No3, where sup 101 called to begin, and as no marked corners are called for course and distance from this point would govern. We ran as above related 355 east from S.W.65 for N.W.64, then south 993 for S.W.64, then west 511 for N.W.63, and ran on west 583 varas and south 163 varas and put if the S.E.cor sur 104, 7600 varas east and 1209 varas south of the above described S.W.cor sur No 3, and 819 varas north of the north line of 34 Blk 194, located from the west as above noted.From the N.W.cor sur 62 we ran across to the N.E.cor sur 34, Bit 894 and found it 11 varas north and 422 varas west.

In order to apply the excess easting to this N.E.cor sur 34, we went to the S.W.cor sur 48 Blk 1, as before described, and ran 430 waras north and 2181.5 varas west to a small rock mound in 4 mile draw, shown me as original N.E.sur 43 Blk A2. from this cor of sur 43 two bearings are given, one on the red gable bluff on the riverused as a bearing for N.E.43 Blk 1, which call fits from this rock mound, but the other call is for a round hill N 50°60'W, and the only round hill near this course reads R 55°30'V, I note that Wr. Williams in his report of survey made in /92 calls for this round hill as N 54º 30 17.

I was told that there was another rock mound west which would fit both bearings and ran on west until I reached a point S 50° 2 from round hill, but bearings and ran on west until I reached a point S 50° I from round hill, but at this point I could not see the rable bluff on the river, and moved back to a point where I could get the course from the 'able bluff and approximate the call for the round hill, but found no rock mound, neither could the men who had formerly seen this mound, find it. The road had been worked and raised on a dump near this point and it was sugrested that the rock mound had been destroyed by the road work. In order to settle the matter definitely, I went to the S.W.cor sur 6 Błk G 3, a small mound in a flat with a well marked it, peak or bluff standing as called for in the field notes of this supres and ran a traverse back to the N.E.sur 43 Blk A 2; and found it 3 miles and Se varas east and one mile and 23 varas south of this S.W.6 Blk G3. This connection with N.E.cor sur 43 Blk A2 and S.W.42 Blk 1, showed an ex-miles, and also showed an error in northing in this chain of old corners, as 5he distance month to north line of sur 34 Blk 194 was only barely mount for A CARLE AND 14. 1. 48 Ser Co ALC: 1

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PECOS CO. SK. F. 41. P.10 11/14/1997 TGLO ARCHIVES AND RECORDS

(6) Report on Resurvey Blk 1 , Pocos river,

er. The map and field notes show this corner to be located on a peculiar plend of the river, and call for a rock mound with two cedar bearings. We found the river at this point encroaching on an old road way beside a mocky ridge. At the foot of the ridge was a scattered pile of rocks, from which the stump of what had been the larger censi in sight core as called for in the field notes , and another smaller cedar , still standing, fibted the callufor the other tree. Mr. Williams states that he identified this corner in /92 and notes a clump of Hackberries which we found bearing as called for from the above described mound.

From this mound we ran a tryerse back to the large IR rock above described as 84 waras south of the south line of sur 36, finding it to be 4250 waras north and 2960 varas west o? the above described S.E. or cur SE.

This shows a space of 554 varas in width between our south line of 36 and the north line of 35 by course and distance from S.E. 32. But we find that Mr. Williams has inserted a survey No 35 1/2 J.Swisher, between sur 35 and 36, to which he has given a width of 828 waras and a length of 4600 on the north line ,out from the river, which makes a conflict between this sur 35 1/2 and sur 35, and on the west between sur 35 1/2 and survey 2 Blv 193 and sur 2 1/2 as shown later on.

In looking over the field notes of Blk 193 which was put in by Mr. Durrell in 1882, we find that the westing of 29.5 varas on east line of sur 6, and the easting of 388 and 1790 on east line of survey 5, correspond with the Ais tances given on west line of 535, 37, and 36, and Mr. Durrells call for sur 5 to begin on Blk 1, also shows that these were probably the original calls on west line Blk 1, before Mr. Nelson made his corrected curvey of 37. I note this as we did not have the original calls of survey 37. This completes the meander of the river along Blk 1 , I.& G.N.Ry.Co.from

sur 69 to sur 37, with corners set on the west lines from sur 69 to sur 50, and from sur 50 to sur 36, as above related.

No 2. (Su indivition Letter Brit 1232 476

Runnels County School Land No.3

This survey under its original field made in 18°1 by L.W. Durrell, calls to begin at the S.W. cor sur 7C Blk.E. I.& G.N. Ry. Co. and by these field notes would contain 4428 sares or one league of land, but these calls do not fit the actual location of the west line of surveys in Block I and there is a consequent shortage in No 3', the junior survey. Having established the 3.W. for of sur 70 Blv 1, as above related, we ran

Alt

south 4913 veras and made the S. J. cor of sur 3 by course and distance from S.W. sur 70. 19 found a rock mound marked for the S.W. cor sur 3 at 340 varas east and 539 varas south of our corner, said to have been placed by "r.Lea. And at 2028 varas south and 1048 varas east we reached the F. W. corner of sur 36 Block 194 as run by course and distance from corners on the west as reported in our preliminary survey. This corner should be 338 waras furthers east to fit the excess in B1P 194 as related below.

Returning to the S.W.cor sur 3 and running east, at 8339 varas we reach? the west line of sur 65 Blk 1, at a point 53 varas north of its S.W.corner as located by this survey.

Returning to the S.W.cor sur 70 and following the field notes of No3, we find it calls to run "east 2494 waras, but the distance between S.W.70 and N.W.69 is only 2344 waras, making a conflict of 150 waras in easting. The next call of No 3 is south 950 waras, but the distance found for sur

69 is 993 waras, so that No 3 will not reach the S. . . or of 69 by 43 waras, losing to the older sur 69, Thenext call is east 1202, while the offset in west line of Blk 1, is 1262

This 1102 together with the 150 easting beyond west line 69, makes 1252 from West line 69, which fails by 10 varas of reaching west line 68,

Next call south is 950, which will not reach north line 67 by 86; maras, Next call east 656 is the same for No 3 and sur 67, leaving the line of No 3 still 10 varas west of west line 67,

Next call south 950 for No3, fails to reach north line 545 by 129 yaras Next call of No 3 is east 1910, again the same as we found for original 545, which leaves the east line of 3 still ten varas west of west line 545 Next call of No3 is south 950, which isaves fails to reach south line 545

Next call of No3 18 south "co, which is a start that the set of the set in the set is south set in the set in the set in the set is south set in the set in the set in the set is south set in the set in the set is south set is south set in the set in the set is south set in the set is south set in the set is south set is south set is south set in the set is south set



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Report on resurvey of Blk. 1 Pecos river.

hich land and ridges on the west of the present river name it physical daible that its course should at any time have been due south for any nee from the N.E. cor. sur 83.

We continued our meanler of the river and searched carefully for the Fing trees called for at S.E.42, and S.E.41, but found no trace of them, he were some large willows near 3.Z.41, which were buried nearly up to the st branches, showing a fill of some 5'or 6', but no 'old mesquites near bricontinued our meander line until we reached a rook mound under the fence pesed to be on south line of 38. This rock mound stood on the bank above Thisser bottom and showed signs of having been in place for a long time. I as hat marked on any of the top rocks and I did not disturb it as that would estroy in part the evidence of age. I was told that this corner was found in place many years ago and has been locally recognized as the S.E. cor sur 59. show the river running S 59 30'E for "75 varas. This I think is an impossible

We continued our meander line to the N.E.cor Hur 37.and S.E.of 535.The original call for S.E.cor 535 is a Hackberry marked X on west bank of River below Pecos Spring. The Pecos spring is a well known spring, the old spring has dried up but its location is unmisstateable, and the spring has been open

ed up and turned into a reservoir immediately below the old opening. A stump of a hackberry was shown us as the original marked tree, and a large hackberr stood close by Although the bearing had been destroyed yet the statements, of saveral witnesses and the position of the spring identified this as the orig inal N.E.cor 37 and S.E.cor 535. Unfortunately we again were confronted with a corrected survey by Mr. Nelson who made such a serious error in correcting

sur 545 as before noted, but as we had no other field notes we had to use his regardless of the fact that they were presumably wrong. We continued our meander line to the 3.5.37 , giving this survey its 950 maras southing. Here we found the river had eroded the west bank for some 500. areas or more of late years, and all trace of the corner noted by Mr. Williams

From this point we left the river and ran a traverse 1034 south and 34 west to a large rock on the south side of a draw and near anold road, which

We noted a call shown in "r. Williams plat for an IR rock on the north lime We noted a call shown in "r. Williams plat for an IR rock on the north lime with hackberry bearing 3 52° 30° W 80 varas. There was no hackberry at this Wi course and distance from this IR rock, but there were a number of small hokbr

along the draw close by. at From this IR rock we ran east, in 1574 varue ranged P varue south of an unmar ed rock mound on river bank, on 103 varas , 1676 in all to a point on the present river.

From N. 2.43 we had found nothing on the river except the old mound at Sag. SE, and the Pedos spring corner ,N.2.37. Returning to the N.E.cor sur 43 we ran west , at about 3400 varas we passed 50 varas north of a rock mound said to be lea's N.W.43, on at 3700 passed close to a rock mound said to be Williams N.7.43, on at 3901 made rock mound for N.W.43. finding a rock mound N 597 37 varas , said to be Durrells N.W.43.

for N.W.43, finding a rock mound N 5° 7 37 varas , said to be Durrells N.W.43. This fixed the N.W.cor sur 43, but in the face of the contradictory calls

for the east lines of these surveys, and the absence of an " identified points the river, the only thing we could do was to run the west lines as called

The although this would give us too much vesting to close on the river call. From N.W.43 we ran 1906 varas south, east 161, south 958, west 283 to N.W. 39, South 1614, east 695, south 958, east 1529 to a roint 244 varas north of N.W. 536, on east 3266,4795 in all to the rock mound d scribed above as marking the 8.E. cor sur 38.

Returning to the 1529 vara point on south line 38 south 344 varas to N.W. 536; on south 672 varas to S.W.536; wost 30.5 varas to N.W.535; south 672 varas to S.W.535; east 388 varas to N.W.cor sur 37, thence east 3070 varas to hack-berry corner at Pecos Spring, N.E. 37.

Returning to the N.T.cor sur 37 vo ran south 950 varas, east 1790 varas to the N.L.cor sur 36, on east 2037, 4717 in all , to point on river for N.E 36-and S.E.37 as above noted. The call is for south line of 37 is 4794 varas, and our actual measure to the river is 77 varas short of this, and allowing for th our actual measure to the river is 77 varas short of this, and allowing for u erosion of west bank noted above, would probably close fairly well in spite of the increased westing from error in field notes of 43 % 42, and thus cor-roborating the position given the west lines of surveys from 43 to 36. Mr. Williams field notes show that he put 4600 waras in the scuth line of 36, but our measurement leaves only 4200 between S.M.3° and the river. In order to complete the sonisction between the above points on the river , we went to the S.S.cor sur 32 D12.1, known locally as the lancaster

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We had hoped to find the large rock bearing called for at NE cor 58, but examination on the ground showed that a change of river bed had, area this rock.

1 1 150 we found a fence corner, and were told that the corner post had been set where an old rock mound once stood. But our distance ran out some varas south of this point, and within typ tenths of a vara of the centre a small rock mound standing 150 varas west of the present river banks. This rock mound is at the foot of a ridge or bank and the river bottom extends eastward for 150 varas, the original channel may have been anywhere . between this mound and the present river, it is all subject to flood now: We also ran from the N.W.cor sur 55 as above noted, south 950, east x 216 south 950, east 65, south 950, east 564, south 950, east 546, south 950 to S.W.

corner sur 51, marking each corner as shown below. We found this corner to be 3851 waras west of rock mound described at a.E.sur 50. The original call is 3886 varas, but the original corner may . have been anywhere at or east of the rock mound above described.

From N.E. cor sur 50 the river runs through a comparatively wide valley of made land bordered by gravel ridges of rock ledges and bluffs. The river. has out many chanels through this soft bottom land and twists and winds from side to side of the valley, making it impossible to even approximate the location of the original meanders.

On looking over the surveys from 50 to 43, we note that the original field notes stop with survey 49, and that survey 47 & 48 are located by field notes made in 1892 by Lr. Williams. The old calls begin again atsurvey 542 and continue to the original S.E.cor sur 44. On running the distance south from N.E.50 to N.E.43 we found that

there was 79 waras over the even half mile width for each survey, or 128 varas more than called for by Mr. "illiams survey. We could not extend the calling south for the old surveys unless we

had an original corner which required this extension, and I understood that Mr. Williams survey was intended to take ur the surplus acreage in the old work, consequently it seemed better to rive each survey south from N.E.50 its call of 950 varas, and each survey its original 950 varas north from N.E.43 and theow the excess into 47, where it would be considered either part of 47 or a tract of unsurveyed surplus land.

Consequently we gave sur 50,49,49,44,45,44,each 950 varas southing and threw the surplus into 47 making it 1029 varas wid, subject to further instruction in the premises. We did not put in the west corners of these surveys as this construction might not be adopted, but we used this con-struction in calculating the bounds and acreage of the unsurveyed land west of them.

The relative position on the river of survey 50 and 44 do not fit the distances given for east and west lines in original field notes as we have not the original calls for the surveys corrected by Er. Williams.

We gave the west lines of 50,49,48, the distances called for, 76 east,

We gave the west lines of 50,49,48, the distances called for,78 east, 324 west,77 west,Then starting at the N.T.cor sur 43, set 3801 waras west of the original N.E.cor 43, we can west 1041 to the S.T.cor 44, north 950 west 1118 to S.W.45, north 960, east 186 to S.W.541, north 950, west 349 to S.W.542, north 950, east 340 to S.W.47 as run from N.M.57, as above noted. But if we take the meanders as given on the working system of the field notes from N.E.50 to S.W.43 we find an easting of only 1132, Now attempt to close this by running west 3562 to N.T.50 and along west lines 1204 east and 3801 east to N.E.43 and we find an excess in westing of 300 yrs. We must cut this down to close and we look for the error in sur 47, and make the westing to N.W.46 740, which will close with our meanders between N.E.50 and N.E.43.

N.E.50 and N.E.43. The S.E.cor sur 44, which is also the N.E.cor sur 43 is the best marked

corner we found on the river. It calls for a hearing on each of three bluff and there are no such bluffs elsewhere in sight on the river, and the 3 calls fit the bluffs, each boaring pointing to either a prominent perpendicular face of the bluff, or the middle point fixed by the sable like top.At this corner we found a small rock pile partly covered over, and come of the rocks was marked "XVM" corresponding to Wr. Williams call at this corner. This mound was about 18" from the point at which all three bearings came together with a variation of 10°41'E.

From this corner we maandered the river as tefore, taking points on the Fight bank or en bars in the bed of the river. Here we noted a very serious error in the field notes, they show a run of the river straight south, but on the ground the river runs 5.5. running east 913 varas in the mile to south line of 42. Again the calls for the three bluffs are repeated at the south line of 42. Again the calls for the three bluffs are repeated at the south line of 42. Again the calls for the three bluffs are repeated at the bails for the south line of 42 shows that both the river and the wont l

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mcE. dos aur 545 the question of error in the corrected Ti upithe field notes in the Patent to this survey follow the cor-id notes made by Mr.Nelson and do not fit the original field notes and meanders of the river. This matter was investigated when the

ry survey was made and the original meanders of the river were the field notes of the survey opposite sur 545, on the east bank of ras the object of this survey was to foll w the footsteps of the mal survey of Block 1, we used the original reanders of the river and inal connections with adjacent surveys in the same block. The relative sition of survey 545 may be reverned by the calls in the patent, but the tringle field notes rust be used to determine the relative position of the secont surveys in Blk 1, which run in a continuous chain from one old corto another.

Resurvey Blk 1, Pecha

twe were shown a rock mound marked "SW 545" said to have been placed by Betchford as Co Sur.and mentioned as a starting point in one of Mr.Lea's morts This mound is 5819 varas west and 140 south of the point on the river where this survey locates the S.E.cor of sur 545, our S.W.545 under the original field notes is 1233 varas west and 140 north of this Ratchford S.W. 545. Mr. Ratchford, apparently following the Melson field notes, places tis Stw 545 at the distance called for, 4596 varas, for the south line of 545, but ap-prently the use of these field notes at this point in the chain of surveys brings the S.W.cor of 69, as noted above, alrost south of the fairly well iden tified R.E.cor of the same survey. Continuing our meander line we found no old marks or corners until we

reached the S.E.cor survey 61. Here we found an old I.R.rock set in the ground on the west bank of the river, probably in its original position. This rock

was described in report on preliminary survey. This gives a total southing of P937 waras and an easting of 7145 waras, between original N.E. sur 69 as above described and this F.E. cor sur 60. As these surveys all connect, all call for the same width, the excess in

southing, under my instructions was pro-rated between them, riving a width cit 993 waras to each survey. The position of the west lines in these original surveys is fixed by the

calls for distance from the river corners, but owing to the change in the river since the original survey was made in 1876, the casting of these river corners has presumably cahanged, at least is uncertain , except at these points identified as original corners, hence at interrediate points a measurement from the river would be uncertain and indefinite. But the length of each line is given and the original difference in easting or westing of these west lines can be exactly determined by convering the calls in adjacent surveys, giving a continuous line deduced from the original calls for the west lines of these surveys, with a check by measurment to the river at points identified as original corners.

Returning to the N.W. con of our fo as above described we ran south 993, east 1262, South 993, east 656, south 903, east 1910 (orig calls) south 993, east 2167, south 993, cast 355, south 993 west 511, south 993, west 500, south 993 east 1171, for N.W.cor aur 60, from which point to the IE rock N.E.60 measured 2760 waras, the original call being 2750.

This closure seems to show that the west lines as above run must be very close to the original position defined by the field notes and that the variation tion used must be very close to that of the critical lines. From this N.E.cor sur fC we continued our mompher of the river, without

rey and was accepted as prohably the original corner. The N. . . cor sur 543

salls for an SE rock which in Tilliams states that he found, but it has disthe TR rooks had been purpoely torn up and thrown into the river. In many bases the change of channel would account for their disarrearance, but it thanks that all but one are not to be found,

From this N.E. corner of 55 west to the B. J. oor 55, the call is 3457. The satural distance from this w.E. 55 to our S. 3-55 is 3510 Targes Phanoe guring the easting in the field notes between these fixed points we fi Luring the easting in the field notes between these fixed points were not the original Lourfers give 4221, while our reenders show 4302 yaras pror in the original which accounts for apparent discropancy in weetin in morth line. And gives an average width of 928 waras to each survey for find this N.W.55 we ran from our N.W.cor sur CC, South 928 east outh 48.east 9.7, south 988, east 445, outh 988, cast 275, south 960 east marking each of these west corners, field notes attached to this more we continued our meander of the River from this 1.7.55 as chown be incore survey, before find to any marks positively don't form a

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Report on Sesurvey Blk 1 pecos giver

the back ,or west lines of surveys and returning to the river at another original identified corner placed the original corners nearly in the relative position given by the original field notes, thereas any serious error in variation would have thrown the west lines too close to or too far from the river at the fixed noints where original corners were identified.

Also a run from the woll identified original X.E.cor sur 43 AC ,which is also the S.E.cor of sur in C3. to the rock mound and Mt.bearing at S.W.6 C3 showed that this variation fitted both bearings and course of lines in Blk C 3.

No local attraction was noted, and only a slight diurnal variation, greater or less according to el able conditions.

The true meridian gave a variation of 11%34' from the magnetic north. The determination of the course of the original lines was essential as the original corners found were at considerable distance from each other necessitating long lines of connection through the Blocks in question.

Preliminary examination of data,

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Y.

The survey as shown above naturall, divdes itself into 5 distict surveys, First, the senior Bissk senior survey Block 1 made by Mr.Keuchler in 18 and basedon the meanders of the Pecos river and certain marked river corners, no corners being called for on the west.

Some of these river corners have trees as bearing: have mount tain bearings and some call for rocks marked IR and set in the ground, The first step in locating the surveys in Block 1 would be to meander the river and look for the original corners.

On seeking a starting point on the river we find the N.E.corner of survey 69 to be the first marked corner with bearings given, below the North corner of survey 72.

The original meanders place this corner at a sharp ben d of the river ,nearly a right angle from S.E.to N.E.and continuing some a covaras east before turning south again, and no similar bend is shown for seveal sections up and down the river from this corner,

The field notes call for a rock mound on the west bank of the Pecos river, between two riffles with a Hackberry tree west 9 varas, In the report of Mr.Williams as CO.Sur.Pecos Co.in 1892 he states

In the report of Mr.Williams as CO.Sur.Pecos Co.in 1892 he states that he found this corner and the hackberry dead in place, and took a new bearing on a rock bluff S 47%E.

We found a bend in the river closely corresponding to the original field notes, and a rocky hill with bluff caprock S 47 E, At this bend a draw runs in from the west, on the north edge of which are several small hackberrys, 4" to 6"in dia.but nore marked.

There is also a draw which runs in to the river at this bend, from the south, with rock ledge showing on river bank, a riffle below the bend and a gravel bar, once a riffle new cut throuch, above the bend. We were shown a rock mound marked "N W 69" about 350 varas south of the south bank of the bend. In a former report we used a point 350 north of this rock mound as the probable location of the original corner N.S.F9, but a closer examination of the present river bank, noting the erosion that had been caused by the two draws, the position of the Hackberry timber, connection with original N.E.60, and with the river at North cor 72, the meanders of the river to S.E.69, lead me to believe that the original position of the river and corner were further north, so we rlaced a rock round for the N.E.69, on the weat bank of the river, 410 varas N 1°30'E from the rock mound mkd "NW 69", and S 47° W from the east edge of the rocky bluff used as hearing by Mr.... Williams, as more nearly, catisfying the cristical description of this corner

From this point, as a cleck, we ran course and distance to the N.W. cor sur 69, and made mourd, on west 2744 waras for the S. ".cor sur 70, and N.W. cor Runnells Co.No.3, North to ".".70, west to S.".71, Thence to S.".73 and north to the river, At 1910 waras we dropred some CC' into the river botton covered with brush and some drift, on at 2204 reaching the south tank of the present river bed. On the north side we noted that the river ran along a low gravel ridge preventing any further rowsment north, but a former obar nel might be anywhere in the river bottor.

Returning to our N.E.69 we reandered the river, taking roints on the right bank or in the river bad on gravel tars. The datails of this run are given below.

At 921.5 south and 2750 E we found two rocks lying on the bank, one of them marked "1", At 1968.7 south and 3702 east we found a rock mount with rock marked "2".

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Leport on a Resurvey of Block 1 I.& S.N.Ry.CO. from N.cor sur 72 to N.F.cor our 32, on the Pecos Direr and adjacent Blocks and surveys in Pecos County , Teras, by H.S. Dod State Surveyor.

Object of Resurvey.

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To locate on the mound the actual mosition and meanders of the Pecos Piver, and lines of surveys in Plock \$, 1 % G " Ry Cc.

To locate or the mound the true position of lines and corners of Runnolls Co.No 3.

To locate on the mound the east line of Black 194,6.C.S C.F.Br.Co from corners on the west, and determine its relation to the west line of plock 1,

and the first

To legate on the ground the true position the east Time and south lines of Elock 173 T.C.Pr.Co.

To locate on the ground the true nosition of surveys in Block 193 Tex. ? Mex. By Co. from connection with original corders called for.

To locate on the ground the true position from their field notes of survey 1 1/2 in the name of t. Maisneth , and the town site of the town of sheffield relative to adjacent commany lines and corners. To locate and determine area of any tract of unsurveyed State

Land between or adjacent to the above Glocks of surveys.

Authority for the survey.

Letters of instruction from the Commissioner of the General Land Office of Texas an horizing and instruction me to make the resurvey of the above tracts and Plocks of land, issuel at the request of the owners of certain of these tracts of land.

Data for the survey.

A working sketch of Block 1 I & S X Ry Co, Block 194, Block Z, Block 178:

Block 193, Block 64 and Bunnells Co sur Vo.3. from the Gen.Land Office Working stelch of Block C3 & C4 and A2 from County Supercors records

in Fort Stockton made by me.

Plat of resurvey of Block 1 and Peece river and adjacent surveys by 0.W.Williams as Co.Surveyor of Pecos Co.in 1802, kindly furnished bythe Gen.Land office.

Plat of lines of connection between original corners in the above named Blocks run in a proliminary survey role by me and submitted to the Commissioner of the Concept Land Office for correction and further instruction under the premises.

Plat of Yown site of sheffield and field notes of subdivisions of Sur-5 and survey 1 1/2 from deed records of Decos Co.Mindly furnished by Mr.Coo.Mazeltine of Fort Stockton. Plats f surrors and connecting lines run "n. 1." . Leastas County Surroy-

or of Pecos County and filed with the General Land Office, kindly Furnished from that Office. Patents to contain of the surveys in Bl: 1 and sur 1 1/2.

Method of survey.

ale But the other of the the the

Transit with solar obcompation checked by observation of north, star at eloration, was used to determine courses, checked by reading of the needle at each noint of the meanders and frequently on the right lines nistance was reasured by double Stadia rod readings , each distance read twice and checked by commanian front and back rod readings

The present magnetic variation and course of old lines was first taken at N.W.cor Blk C4 where we had two mountain bearings, this, variation of 10441', This was checked by run north and east to con the original corner of 33 Block Z,

Tater this variation was proven correct by observation of the three Bluff bearings at N. .cor 43 Blk 1, also by the fact thet in running our from an identified original corner of Blk 1 on the river, then running

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The present magnetic variation and course of old lines was first taken at N.W.cor BUK 04 where we had two mountain bearings, this was variation of 10641°F. This was checked by run north and east to conver-with original corner of 33 Block Z. Later this variation was proven correct by observation of the three Bluff bearings at N.L.cor 43 Blt 1.also by the fact that in running out from an identified original corner of Blk 1 on the river, then running

meedle at each point of the meanders and frequently on the right times. Distance was measured by double Stadia rod readings ,each distance read trice and checked by comparing front and back rod readings.

Transit with solar observation checken by observation of north star at elogation.was used to determine courses, checked by reading of the

mished from that Office. Patents to contain of the surveys in Ble 1 and sur 1 1/2.

Dava for the envey. A working sketch of Block 1 1 & f N Ry CoyBlock 104, Block 7, Block 178. Block 103, Block 04 and unmells to sur NS.3. from the Gen.Land Grisce Torking statch of Block 03 & 04 and 12 from County Surveyors records in Part Stockion make by we. Plat of resumer of Block 1 and Peers river and adipent surveys by 0.3. williams as Co.Surveyor of Peers Co.in 1893, kindly furnished by the Gen.Land Office, Distance bires of connection between original corners in the above

Authority for the Survey. Tetters of instruction from the Condissioner of the Neteral Land Diffee of Locas authorizing and instructing metto make the resurvey of the above reacts and Plocks of Land, issued at the request of the owners of certain of these tracks of land.

To identic on the shound the true events on prior 11-6 in terms
11.005 of Block 175 T.C.R. CO.
To locate on the eround the true position of supress for Block 192
Tex.A Mex.R: Co. from connection with privinal conders called for.
To locate on the ground the base worlder from their field notes
of survey 1 1/2 in the none of Johnsonin sant the town site of the four of Sherfield relative to adjacent striver lines and connects.
To include and deformine gree of any tract of unsurveyed State
Last between or objacent to the above blocks of surveys.

To reast on the sphered the true hest that the past three and sauch -

To locate on the pround the east-lime of Block 191,0.0.5. Set Ry.00 from corners on the west, and deterpine dis relation to the west line of block 1.

Report of Resurvey of Blk.1 Peccs River "lock 194,193,178,

Meanders of the Pecos from ".E.69 to S.E. 37 Elv 1,

List of new corners and bearings made on this survey.

Method of determining excess in Pasting in Blb.194

Plat and field notes of unsurveyed land between Blv 1 & Blv 194 Field notes resurvey of ".C.Nolke application, " " Holmes application " " Yates "

Field notes of Tesurvey Punnells Go. No 3, Field notes of unsurveyed strip north of Plk 194, Yates.

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