

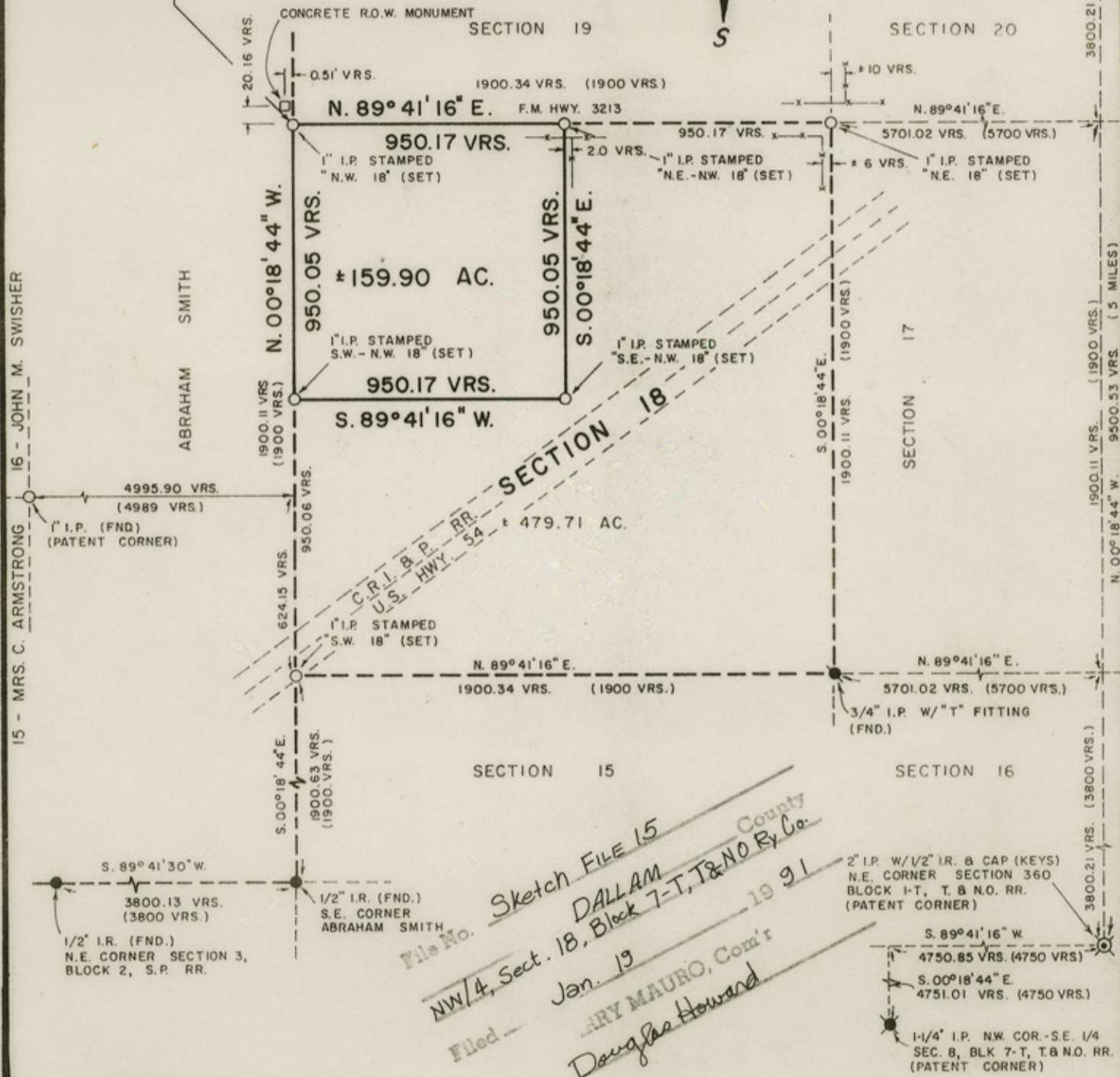
DALLAM COUNTY, TEXAS

NORTHWEST ONE-QUARTER, SECTION 18, BLOCK 7-T,
TEXAS AND NEW ORLEANS RAILROAD COMPANY SURVEY

SCALE: 1" = 500 VARAS

BEGINNING CORNER
TEXAS COORD. SYSTEM - NORTH ZONE
N.A.D. 83
N. 1,473,107.01 VARAS
E. 153,723.03 VARAS
MAPPING ANGLE - 00°27'33.5"
COMBINED SCALE FACTOR 0.9998311
BASED ON "IRWIN-1953"

2" I.P. IN OLD ROCK MOUND
N.E. CORNER SECTION 289,
BLOCK 1-T, T & N.O. RR.
(PATENT CORNER)



NOTES:

- 1.) GEODETIC BEARINGS SHOWN ARE BASED ON U.S.C. & G.S. TRIANGULATION STATION "IRWIN-1953" AND ITS AZIMUTH, AND "STRAT-1953-1969" AND ITS AZIMUTH.
- 2.) COORDINATE ORIGIN IS U.S.C. & G.S. TRIANGULATION STATION "IRWIN-1953" N.A.D. 1983.
- 3.) INFORMATION IN PARENTHESIS () IS FROM ORIGINAL / CORRECTED FIELD NOTES.

File No. Sketch File 15
DALLAM County
NW/4, Sect. 18, Block 7-T, T & N.O. Ry Co.
Jan. 19
ARY MAURO, Com'r
Douglas Howard

EXHIBIT A



Jimmie Nail & Co.
Land Surveyors
Robert E. Keys, Pres.
4131 S.W. 45th Ave Amarillo, Texas 79109
(806) 352-1782

Sketch File 15

Counter 20381

Jimmie Nail & Co.

LAND SURVEYORS

Robert E. Keys, President,



4131 S.W. 45th Ave

Amarillo, Texas 79109

(806) 352-1782

August 8, 1990

The Honorable Garry Mauro
General Land Office Commissioner
General Land Office
1900 North Congress
Stephen F. Austin Building
Austin, Texas 78701

File No. SKETCH FILE 15
DALLAM County
NW/4 Sect. 18, Block 7-T, T & N.O. Ry. Co.
Filed Jan 19 19 91
By GARRY MAURO, Com'r
Douglas Howard

SURVEY REPORT

This is a report of a survey prepared of the Northwest one-quarter of Section 18, Block 7-T of the Texas & New Orleans Railroad Company (T. & N. O. RR. CO.) Survey, Dallam County, Texas, situated about 18 miles N. 54° E. of Dalhart, Texas; ordered by Connie Willis for William Hunter, Attorney, of Hunter & Oelke Law Firm in Dalhart, Texas. The work was ordered on June 21, 1990 and a working sketch of surveys within a 2 mile area surrounding said Section 18 was ordered from the General Land Office on June 27, 1990. The working sketch was compiled and drawn by J. Kilpatrick of the General Land Office and received by us, on July 15, 1990. The field work was performed July 16th, 18th, 19th, and August 1st and 10th, 1990 by Jeff Reasoner, David Whitaker and Wendell Stoner.

After reviewing the working sketch, the original surveys of said Block 7-T, in the vicinity of Section 18 were made by Surveyor Francis M. Maddox on July 15th, 1876. Concluding from the following facts:

- 1.) There were no passing calls stated in Surveyor Maddox's field notes,
- 2.) The type of monuments called for were all earthen mounds,
- 3.) All of the surveys in the vicinity of Section 18 were surveyed on or near the same date and,
- 4.) All sections are called to be 1900 varas square - North, South, East and West;

I believe that he constructed these surveys in the office, from field notes of the adjoining blocks.

The next surveyor of record in this area was George Spiller. Surveyor Spiller resurveyed all of the even numbered sections in Block 7-T and in the adjoining Block 1-T of the T. & N. O. RR. Co. Survey. From following Surveyor Spiller's surveys in other areas of the Texas Panhandle, I believe he was a competent surveyor and was on the ground. However, the corners that he set or found were earthen mounds and none of these monuments are recoverable today with the sandy loam soil conditions, roads and cultivation that exist in this area.

The first record of a substantial recoverable corner in this area was by County Surveyor J. W. Pigman in September 1918. Surveyor Pigman resurveyed several sections in this vicinity and prepared corrected field notes calling for iron pipes. His resurvey of the North one-half of Section 360, Block 1-T, T. & N. O. RR. Co. Survey calls for an iron pipe in the ground for the Northeast Corner of said Section 360. We found a 2 inch iron pipe (see Exhibit "D") which is 5 miles south of a 2 inch iron pipe driven in an old rock mound (see Exhibit "E") at the Northeast Corner of Section 289, same Block. These two corners are believed to be the same corners that Surveyor Pigman called for. Due to the fact that he called for a reference monument five miles away, I believe that he used these corners as a baseline for constructing his surveys in this area. On April 23, 1924, Surveyor Pigman surveyed the Northeast one-quarter of Section 8 of said Block 7-T. He called for iron pipes at all corners. The only remaining corner is a 1- $\frac{1}{4}$ inch iron pipe, found at the Southwest corner of said Section 8 (see Exhibit "C"). One other recovered patent corner was a 1 inch iron pipe set by Surveyor Pigman at the Southeast corner of the John M. Swisher Survey, same being the Northeast corner of the Mrs. C. Armstrong Survey, and in the West line of the Abraham Smith Survey (see Exhibit "B").

A 14 mile "open" traverse was commenced at the U. S. C. & G. S. Triangulation Station "Irwin-1953" and ended at the U. S. C. & G. S. Triangulation Station "Strat 1953-1969" (with an error of closure of 1 in 22,000) and an 8 mile "closed" traverse was commenced and ended at said "Irwin-1953" (with an error of closure of 1 in 60,000). The control points of these two traverses were then used to establish state plane coordinates and tie together all of the found patent and non-patented corners, and various occupation lines (ie: fence lines, centerline roads, etc.).

A N A L Y S I S (Refer to Exhibit "A" Plat)

Surveyor J. W. Pigman's Baseline between the Northeast Corner of Section 360 and the Northeast Corner of Section 289 of Block 1-T, T. & N. O. RR. Co. Survey (hereafter referred to as "Baseline"), measured N. 00° 18' 44" W., 9500.53 varas, which is 0.53 varas longer than Surveyor Pigman's call of 5 miles (assumed that 1900 varas is equivalent to one mile). With this "Baseline" established the total north-south distance was equally divided by the five sections (miles) and yielded 1900.11 varas per section. Remarkable measuring for the late 1910's.

With the north-south distances being established, there needed to be a patent corner for determining the proration between the "Baseline" in an east-west direction. To determine the east-west boundaries of said Section 18 from this "Baseline", we measured between the Northwest corner of the Southeast one-quarter of Section 8 of said Block 7-T and a southerly extension south of said "Baseline". We calculated a distance of 4750.85 varas, which is only 0.85 varas longer than the "called" distance. Thus, the prorated east-west distance equals to 1900.34 varas per section. To further reinforce this proration, the north-south measured distance from the Southwest corner of the Northeast one-quarter of said Section 8 and the Northeast corner of said Section 360 is 4751.01 varas, which is 1.01 varas longer than the "called" distance. This equates to a prorated distance of 1900.40 varas per section and is within 0.06 varas of matching the above stated prorated east-west distance of 1900.34 varas.

The established prorated north-south distance of 1900.11 varas per section, the established prorated east-west distance of 1900.34 varas per section, and the established "Baseline" bearing of N. 00° 18' 44" W., were then used for constructing said Section 18 as follows:

- 1.) The north line was established by holding 3800.21 varas south of the Northeast corner of said section 289 and perpendicular to said "Baseline";
- 2.) The south line was established by holding 5700.32 varas south of the Northeast corner of said Section 289 and perpendicular to said "Baseline";
- 3.) The east line was established by holding 5701.02 varas west of and parallel to said "Baseline";
- 4.) The west line was established by holding 7601.36 varas west of and parallel to said "Baseline".

Thus the boundary of Section 18 is as follows:

North Line.....N. 89° 41' 16" E., 1900.34 varas,
 East Line.....S. 00° 18' 44" E., 1900.11 varas,
 South Line.....S. 89° 41' 16" W., 1900.34 varas,
 West Line.....N. 00° 18' 44" W., 1900.11 varas,
 and yielding 639.61 acres of land, more or less.

Coincidentally, a ¾ inch iron pipe with a "T" fitting was found at the common corner of Sections 15, 16, 17 and 18 of said Block 7-T.

The boundary of the Northwest one-quarter of Section 18 was determined by intersecting the mid-points of the section lines, and is as follows:

North Line.....N. 89° 41' 16" E., 950.17 varas,
 East Line.....S. 00° 18' 44" E., 950.05 varas,
 South Line.....S. 89° 41' 16" W., 950.17 varas,
 West Line.....N. 00° 18' 44" W., 950.05 varas,
 and yielding 159.90 acres of land, more or less.

SKETCH FILE 15
 DALLAM County
 NW ¼, SECT. 18, Block 7-T, T. & N.O.R., G.

Filed Jan. 19 19 91

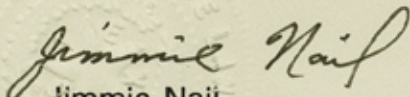
GARRY MAURO, Com'r

By Douglas Howard

The east-west distance across the "senior" Abraham Smith Survey which lies adjacent to the west line of said Section 18 was measured to be 6.9 varas longer than Surveyor Francis M. Maddox's original "called" distance of 4989 varas. Although this is all based on Surveyor Pigman's "called" patent corner monuments, it is believed that he never measured across the Abraham Smith Survey when he resurveyed the John M. Swisher Survey lying adjacent to and west of said Abraham Smith Survey. The reason for this conjecture is that we did not find that great of an error between any of his found monuments in this area.

In connection with this report, I am enclosing the recorded field notes and an attached plat labeled exhibit "A" of the Northwest one-quarter of said Section 18, along with various photographs of found patent corner monuments labeled Exhibits "B", "C", "D", and "E".

Respectfully submitted,



Jimmie Nail
Licensed State Land Surveyor

Encls.

JN/ci

wpdoc\18-7t-tn.dal

File No. Sketch File 15 County
DALLAM
NW/4, Sect. 18, Block 7-T, T & N. O. B. Co.
Filed Jan. 19 19 91
By GARRY MAURO, Com'r
Douglas Howard

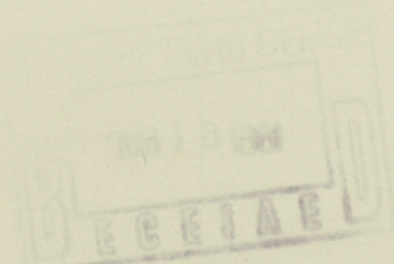


EXHIBIT B

SOUTHEAST CORNER OF JOHN M. SWISHER SURVEY, DALLAM COUNTY, TEXAS

AUGUST 10, 1990



LOOKING DOWN ON 1" X 25" IRON PIPE (FOUND)
(WE PLACED ROCKS AROUND PIPE)



LOOKING WEST TOWARD WINDMILL (WINDMILL IS LOCATED JUST
INSIDE SECTION 5, BLOCK 1, B.S. & F. SURVEY, DALLAM CO.)



LOOKING NORTH TOWARD OLD ABANDONED FARM HOUSE
(THE TREES ARE AROUND THE HOUSE)



LOOKING EAST ACROSS ABRAHAM SMITH SURVEY
(YOU CAN BARELY SEE THE GRAIN ELEVATORS AT CONLEN)

Dallam Co. Sk. Files

Counter 120386

EXHIBIT C

SOUTHWEST CORNER OF THE NORTHEAST ONE-QUARTER OF SECTION 8, BLOCK 7-T,
T. & N.O. RR. CO. SURVEY, DALLAM COUNTY, TEXAS

AUGUST 10, 1990



LOOKING WEST TOWARD FARM HOUSE



LOOKING DOWN ON A 1-1/4" IRON PIPE



LOOKING EAST TOWARD F.M. HIGHWAY 807 (RUNS NORTH-SOUTH)
(THE TWO TREES ARE ALONG HIGHWAY)



LOOKING SOUTH (OLD FENCE POST BEARS SOUTH \pm 50')

Counter 20387

Dallam Co. Sk.F. 15

EXHIBIT D

NORTHEAST CORNER OF SECTION 360, BLOCK 1-T, T. & N.O. RR. CO. SURVEY,
DALLAM COUNTY, TEXAS

AUGUST 10, 1990



LOOKING NORTH WITH POWER POLES AND FENCE



LOOKING DOWN ON A 2" IRON PIPE (BENT) WITH A 1/2" X 30" IRON ROD W/CAP STAMPED "KEYS R.P.L.S. 2507" SET OVER THE BASE OF THE IRON PIPE



LOOKING SOUTH WITH FENCE LINE



LOOKING EAST WITH FENCE LINE

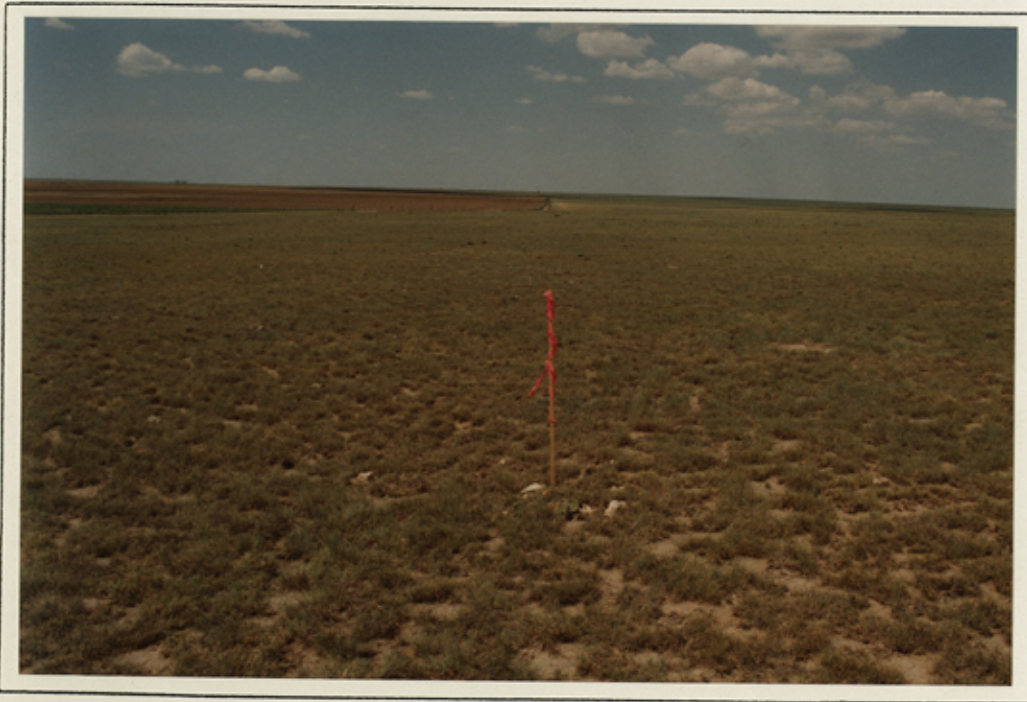
Dallam Co. Sk.F. 15

Counter 20388

EXHIBIT E

NORTHEAST CORNER OF SECTION 289, BLOCK 1-T, T. & N.O. RR. CO. SURVEY,
DALLAM COUNTY, TEXAS

AUGUST 10, 1990



LOOKING NORTH AT FENCE LINE



LOOKING DOWN ON A 2" IRON PIPE IN AN OLD ROCK MOUND



LOOKING SOUTH ACROSS C.R.I. & P. RR. & HIGHWAY 54
(NOTE FENCE RUNNING SOUTH OVER HORIZON)



LOOKING EAST AT C.R.I. & P. RR. & HIGHWAY 54

Counter 20389