

UNITED STATES
DEPARTMENT OF THE INTERIOR
GENERAL LAND OFFICE
Book "H"

BOOK 4234

BOOK 4234

FIELD NOTES

4234

Resurvey

of the

North Boundary and Portion of the West Boundary,

and

Portion of the Subdivision

of

Township 22 North, Range 31 East

With Subdivision of Sections

Of the Gila & Salt River Base & Meridian,

In the State of Arizona

EXECUTED BY

Glenn R. Haste, Cadastral Engineer,

John W. Berberich, Public Land Surveyor,

Under special instructions dated January 30, 1940, which provided
for the surveys included under Group No. 448 N.M., bearing the approval of the
Commissioner of the General Land Office under date of April 15, 1940

and assignment instructions dated April 1, 1940
and April 19, 1940

Survey commenced June 25, 1940

Survey completed July 2, 1940

4234

BCCN 4284

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Subdivision of Sec. 4 - Page 16

Black lines resurveyed by Glenn R. Haste

Red line resurveyed by John W. Berberich

T. 22 N., R. 31 E.

Chains

For description and tests of instrument, see the resurvey of T. 13 N., R. 21 W., N. M. P. M., New Mexico, Book "B" of this group.

In the resurvey of the small areas within T. 22 N., R. 31 E., considerable thought was given to the proper method of termination of the subdivisions upon the Arizona-New Mexico boundary.

Search was made for evidence of the original closing corners within the areas involved, and considerable distances north and south ~~and~~ no original closing corners were found. The Arizona-New Mexico boundary will of necessity be the limiting east boundary of secs. 3 and 10, resulting in areas considerably in excess of those shown by the original survey. The closing corners of the subdivision were placed on the Arizona-New Mexico boundary in the same latitude as the nearby identified subdivisional corners within the fractional township.

All lines controlling the restoration of secs. 3, 4, 9, and 10 were retraced and search made for the original corners. In the interest of simplicity, the true lines only are herein given.

Resurvey of a Portion of the W. Bdy., T. 22 N., R. 31 E.

(Restoring the survey as originally surveyed by C. Robbins in 1875, and resurveyed by C. L. Campbell in 1907)

The original corner of secs. 1, 6, 7, and 12 on the W. bdy. of T. 22 N., R. 31 E., is a sandstone 12x8x6 ins., set 10 ins. in the ground, and marked with 5 grooves on S. face and 1 groove on N. face.

At point for cor., with original cor. stone alongside.

Set an iron post, 3 ft. long, 2 ins. diam., 27 ins. in the ground, for the cor. of secs. 1, 6, 7, and 12, with brass cap mkd.

T22N	
R30E	R31E
S1	S6

S12	S7
1940	

from which

A pinon, 9 ins. diam., bears N. 67° 30' E., 112 lks.

Resurvey of a Portion of the W. Bdy., T. 22 N., R. 31 E.

Chains

dist., properly mkd. by the previous resurvey.

A pinon, 10 ins. diam., bears S. 38° 30' E., 61 lks.

dist., properly mkd. by the previous resurvey.

A pinon, 4 ins. diam., bears S. 54° 15' W., 23 lks.

dist., mkd. B T only by this resurvey.

A pinon, 6 ins. diam., bears N. 67° 15' W., 41 lks.

dist., properly mkd. by the previous resurvey.

There is no trace of the previously reported SW. bearing tree.

N. 0° 13' E., bet. secs. 1 and 6.

Over rolling land, through dense scrub timber, ascending gradually.

39.72

The original $\frac{1}{4}$ sec. cor., which is a sandstone 20x12x4 ins., well set in a mound of stone and mkd. $\frac{1}{4}$ on W. face.

At point for cor., with original cor. stone alongside.

Set an iron post, 3 ft. long, 1 in. diam., 22 ins. in the ground to bed rock and in a mound of stone to cap, for the $\frac{1}{4}$ sec. cor., with brass cap mkd.

$$\begin{array}{c} \frac{1}{4} \\ | \\ S1 \quad | \quad S6 \\ | \\ 1940 \end{array}$$

from which

A pinon, 9 ins. diam., bears N. 77° 30' E., 86 lks.

dist., properly mkd. by the previous resurvey.

A pinon, 8 ins. diam., bears N. 61° 15' W., 43 lks.

dist., properly mkd. by the previous resurvey.

N. 0° 17' W.

40.00

The cor. of Ts. 22 and 23 N., Rs. 30 and 31 E., which is an iron post, 3 ins. diam., set in a mound of stone, and mkd. and witnessed as described in the notes of the resurvey of T. 23 N., R. 30 E.

Land, rolling.

Soil, sandy and rocky; sandstone; 2nd and 3rd rates.

Timber, scrub pinon and cedar.

Resurvey of the N. Bdy. of T. 22 N., R. 31 E.

Chains

(Restoring the survey as originally surveyed by W. R. Fitzgerald in 1882)

From the cor. of Ts. 22 and 23 N., Rs. 30 and 31 E.

N. 89° 18' E., bet. secs. 6 and 31.

Over rolling land, through scrub timber.

28.60 Wash, 30 lks. wide, 10 ft. deep, course SSE.

33.50 Wash, 20 lks. wide, 4 ft. deep, course S.

39.98 At proportionate point.

Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground, for the $\frac{1}{4}$ sec. cor., with brass cap mkd.

$$\frac{\frac{1}{4} \begin{array}{l} S \ 31 \\ S \ 6 \end{array}}{1940}$$

from which

A pinon, 5 ins. diam., bears N. 44° 45' E., 60 lks.

dist., mkd. $\frac{1}{4}$ S 31 B T.

A pinon, 7 ins. diam., bears S. 3° 45' E., 48 lks.

dist., mkd. $\frac{1}{4}$ S 6 B T.

53.00 Wash, 30 lks. wide, 6 ft. deep, course S.

79.96 At proportionate point.

Set an iron post, 3 ft. long, 2 ins. diam., 27 ins. in the ground, for the cor. of secs. 5, 6, 31, and 32, with brass cap mkd.

$$\begin{array}{c} T23NR31E \\ \hline S31 \ | \ S32 \\ \hline S6 \ | \ S5 \\ \hline T22N \\ 1940 \end{array}$$

from which

A pinon, 5 ins. diam., bears N. 48° 45' E., 129 lks.

dist., mkd. T 23 N R 31 E S 32 B T.

A pinon, 6 ins. diam., bears S. 64° 30' E., 142 lks.

dist., mkd. T 22 N R 31 E S 5 B T.

A pinon, 5 ins. diam., bears S. 25° 30' W., 86 lks.

dist., mkd. T 22 N R 31 E S 6 B T.

A pinon, 10 ins. diam., bears N. 45° 30' W., 82 lks.

dist., mkd. T 23 N R 31 E S 31 B T.

Land, rolling.

Resurvey of the N. Bdy. of T. 22 N., R. 31 E.

Chains

Soil, sandy; 3rd rate.

Timber, scrub pinon and cedar.

N. 89° 18' E., bet. secs. 5 and 32.

Over rolling land, through dense scrub timber.

14.60 Wash, 20 lks. wide, course SE.

39.98 At proportionate point.

Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground, for the $\frac{1}{4}$ sec. cor., with brass cap mkd.

$\frac{1}{4}$	S 32
	S 5
	1940

from which

A pinon, 7 ins. diam., bears S. 55° 30' W., 9 lks.

dist., mkd. $\frac{1}{4}$ S 5 B T.

A pinon, 6 ins. diam., bears N. 25° 15' W., 22 lks.

dist., mkd. $\frac{1}{4}$ S 32 B T.

66.90 Wash, 30 lks. wide, 8 ft. deep, course SE.

74.50 Wash, 30 lks. wide, 2 ft. deep, course E. of S.

79.40 Graded road, bears NNW. and SSE., soon turning S. of E.

79.96 At proportionate point.

Set an iron post, 3 ft. long, 2 ins. diam., 27 ins. in the ground, for the cor. of secs. 4, 5, 32, and 33, with brass cap mkd.

T23NR31E	
S32	S33
S5	S4
T22N	
1940	

from which

A cedar, 7 ins. diam., bears N. 1° 45' E., 111 lks.

dist., mkd. T 23 N R 31 E S 33 B T.

A pinon, 9 ins. diam., bears S. 57° 30' E., 189 lks.

dist., mkd. T 22 N R 31 E S 4 B T.

A cedar, 4 ins. diam., bears S. 70° W., 206 lks.

dist., mkd. T 22 N R 31 E S 5 B T.

A cedar, 5 ins. diam., bears N. 80° 45' W., 110 lks.

dist., mkd. T 23 N R 31 E S 32 B T.

Resurvey of the N. Bdy. of T. 22 N., R. 31 E.

Chains

Land, rolling.

Soil, sandy, sandy loam; 2nd rate.

Timber, scrub pinon and cedar.

N. 89° 18' E., bet. secs. 4 and 33.

Over slightly broken land, through scattering scrub timber.

5.50 Ridge, about 40 ft. high, bears NNW. and SSE.

14.10 Road, bears nearly N. and S.

17.30 Wash, 50 lks. wide, course W. of S.

19.99 At proportionate point.

Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground,
for the W. 1/16 sec. cor., with brass cap mkd.

$$\begin{array}{r} \text{W } 1/16 \quad \text{S } 33 \\ \quad \quad \quad \text{S } 4 \\ \quad \quad \quad 1940 \end{array}$$

from which

A cedar, 5 ins. diam., bears N. 22° E., 99 lks.

dist., mkd. W 1/16 S 33 B T.

A pinon, 10 ins. diam., bears S. 25° 30' W., 236 lks.

dist., mkd. W 1/16 S 4 B T.

22.58 Telephone line, bears NE. and SW.

36.80 Wash, 1½ chs. wide, course SSW.; enter open valley of the Rio Puerco,
bears NE. and SW.

37.38 Highway right of way fence, parallel to railroad.

37.80 U. S. oiled highway No. 66, parallel to railroad.

38.30 Telephone line, parallel to railroad.

38.37 Telephone line, parallel to railroad.

39.37 Center of A. T. & S. F. Railway, as double tracked, bears N. 32° E.,
and S. 32° W.

39.98 At proportionate point.

Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground, for
the ¼ sec. cor., with brass cap mkd.

$$\begin{array}{r} \frac{1}{4} \quad \text{S } 33 \\ \quad \quad \quad \text{S } 4 \\ \quad \quad \quad 1940 \end{array}$$

Resurvey of the N. Bdy. of T. 22 N., R. 31 E.

Chains

from which

A 3 in. pipe showing 6 ins. out of cement bears

N. 0° 40' E., 76 lks. dist.

Raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor.

40.19 Telegraph line, parallel to railroad.

40.59 Telegraph line, parallel to railroad.

41.08 Railroad right of way fence, parallel to railroad.

53.40 Road, bears NW. and SE.

56.60 Right bank of the Rio Puerco, 15 ft. high, course SW.

58.00 Center of water course of Rio Puerco, 1½ chs. wide, course SW.

59.97 At proportionate point.

Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground,
for the E. 1/16 sec. cor., with brass cap mkd.

E 1/16	S 33
	S 4
	1940

raise a mound

of stone, 2 ft. base, 1½ ft. high, N. of cor.

61.50 Left bank of the Rio Puerco, 20 ft. high, course SW.

79.96 The original sec. cor., which is a sandstone 8x8x6 ins., set 6 ins.
in the ground, and mkd. with 3 grooves on E. face, and 3 grooves on
W. face.

At point for cor., with original cor. stone alongside.

Set an iron post, 3 ft. long, 2 ins. diam., 27 ins. in the ground,
for the cor. of secs. 3, 4, 33, and 34, with brass cap mkd.

T23NR31E	
S33	S34
S4	S3
T22N	
1940	

raise a mound

of stone, 2 ft. base, 1½ ft. high, W. of cor.

Land, valley.

Soil, sandy clay loam; 2nd rate.

Timber, none.

East, bet. secs. 3 and 34.

Over open valley land.

Resurvey of the N. Bdy. of T. 22 N., R. 31 E.

Chains

26.66 Intersect the Arizona-New Mexico boundary.

Set an iron post, 3 ft. long, 3 ins. diam., 27 ins. in the ground, for the closing cor. of Ts. 22 and 23 N., R. 31 E., with brass cap mkd.

T23N		
R31E		
CC — S34		N MEX
S3		
T22N		
1940		

from which

A cedar, 5 ins. diam., bears S. 77° 15' W., 242 lks.

dist., mkd. T 22 N R 31 E S 3 C C B T.

The 11 $\frac{1}{2}$ mile cor. on the boundary bet. Arizona and New Mexico

bears N. 0° 15' W., 7.26 chs. dist., as described

in the notes of the resurvey of that boundary.

Raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor.

Land, nearly level.

Soil, sandy clay loam; 2nd rate.

Timber, few scattering scrub pinon and cedar.

Resurvey of Portion of Subdivision of T. 22 N., R. 31 E.

(Restoring the survey made by W. R. Fitzgerald in 1882)

The original sec. cor. of secs. 9, 10, 15, and 16, is a sandstone 10x8x7 ins., set 8 ins. in the ground and mkd. with 3 grooves on E. face and 4 grooves on S. face.

At point for cor., with original cor. stone alongside.

Set an iron post, 3 ft. long, 2 ins. diam., 27 ins. in the ground, for the cor. of secs. 9, 10, 15, and 16, with brass cap mkd.

T22NR31E	
S9	S10
S16	S15
1940	

raise a mound

of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor.

East, bet. secs. 10 and 15.

Resurvey of Portion of Subdivision of T. 22 N., R. 31 E.

Chains

Over rolling and slightly broken land, through scattering scrub timber.

1.60 Left bank of wash, 15 ft. deep, course NNW.

4.45 Right bank of same wash.

10.80 Road, bears nearly N. and S.

17.30 Road, bears nearly N. and S.

19.80 Asc. sandstone cliff 50 ft. high, bears nearly N. and S.

20.50 Top of same.

26.95 Intersect the boundary bet. Arizona and New Mexico.

Set an iron post, 3 ft. long, 2 ins. diam., 27 ins. in the ground, for the closing cor. of secs. 10 and 15, with brass cap mkd.

T22N	
R31E	
S10	
CC	N MEX
S15	

1940

from which

A cedar, 8 ins. diam., bears S. 25° W., 324 lks.

dist., mkd. T 22 N R 31 E S 15 C C B T.

A cedar, 5 ins. diam., bears N. 83° 30' W., 130 lks.

dist., mkd. T 22 N R 31 E S 10 C C B T.

The $116\frac{1}{2}$ mile cor. bet. Arizona and New Mexico bears

N. 0° 15' W., 6.08 chs. dist., as described in

the notes of the resurvey of that boundary.

Land, rolling and slightly broken.

Soil, sandy and rocky sandstone; 2nd and 3rd rates.

Timber, scattering scrub pinon and cedar.

From the cor. of secs. 9, 10, 15, and 16.

N. 0° 04' W., bet. secs. 9 and 10.

Over rolling land, through scattering scrub timber.

4.50 Wash, $1\frac{1}{2}$ chs. wide, course NNW.

8.70 Road, bears NE. and SW.

11.00 Arroyo, $1\frac{1}{2}$ chs. wide, course NW.

13.80 Arroyo, 75 lks. wide, course NW.

29.10 Arroyo, 1 ch. wide, course NW.

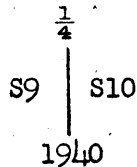
Resurvey of Portion of Subdivision of T. 22 N., R. 31 E.

Chains

33.10 Road, bears NW. and SE.

39.95 At proportionate point.

Set an iron post, 3 ft. long, 1 in. diam., 30 ins. in the ground, for the $\frac{1}{4}$ sec. cor., with brass cap mkd.



raise a mound

of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.

52.90 Arroyo, 30 lks. wide, course S. of W.

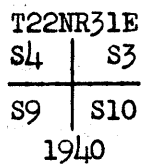
56.00 Asc. 100 ft. over area of Basket Weaver ruins, bears nearly E. and W.

71.30 Top of ascent on wide-topped spur, slopes SW.; over top.

79.90 The original sec. cor., which is a cedar post, 3 ins. diam., 2 ft. above ground, at the side of an unmarked sandstone 10x8x7 ins., set 6 ins. in the ground. The cedar post shows 3 notches on one side, and evidence of other marks rotted off.

At point for cor., with original cor. post alongside.

Set an iron post, 3 ft. long, 2 ins. diam., 27 ins. in the ground, for the cor. of secs. 3, 4, 9, and 10, with brass cap mkd.



from which

A pinon, 8 ins. diam., bears N. 35° E., 97 lks.

dist., mkd. T 22 N R 31 E S 3 B T.

A pinon, 12 ins. diam., bears S. 8° E., 49 lks.

dist., mkd. T 22 N R 31 E S 10 B T.

A cedar, 14 ins. diam., bears S. 5° 15' W., 54 lks.

dist., mkd. T 22 N R 31 E S 9 B T.

A pinon, 10 ins. diam., bears N. 38° 15' W., 77 lks.

dist., mkd. T 22 N R 31 E S 4 B T.

Land, rolling and slightly broken.

Soil, sandy; 3rd rate.

Timber, scrub pinon and cedar.

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Resurvey of Portion of Subdivision of T. 22 N., R. 31 E.

Chains

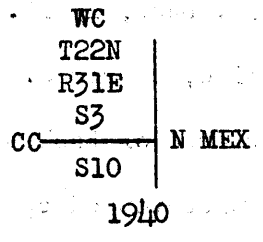
East, bet. secs. 3 and 10.

Over rough, broken land, through scrub timber; over top of flat-topped spur sloping SW. There is evidence of former habitation by the so-called Basket Weavers.

9.90 Leave area of old ruins, bears NE. and SW.; and desc. about 100 ft.

21.00 Wash, 10 lks. wide, course SW.; asc. 100 ft.

23.75 Set an iron post, 3 ft. long, 2 ins. diam., 27 ins. in the ground, for the witness closing cor. of secs. 3 and 10, with brass cap mkd.



from which

A point on a cliff 150 ft. high, bears nearly

N. and S., and mkd. X B O bears S. 9° 40' W.,

76 lks. dist.

A point on this same cliff mkd. X B O bears N. 20° 47' E.,

19 lks. dist.

26.76 Intersect the boundary bet. Arizona and New Mexico.

This point falls on steep cliff from which the 115½ mile cor. of boundary bet. Arizona and New Mexico bears N. 0° 15' W., 7.49 chs. dist., as described in the notes of the resurvey of that boundary.

Chisel a cross at true point.

Land, rough, broken.

Soil, sandy and rocky sandstone; 2nd and 3rd rates.

Timber, scrub pinon and cedar.

From the cor. of secs. 3, 4, 9, and 10.

N. 0° 13' W., bet. secs. 3 and 4.

Over flat top of spur sloping SW., through scrub timber.

The top of this spur is covered by ruins of the ancient Basket Weavers.

4.40 Desc. 70 ft. from top, bears NE. and SW.

9.20 Wash, 10 lks. wide, course NW.

10.20 Base of cliff, bears NNW. and SSE.; asc. 350 ft.

Resurvey of Portion of Subdivision of T. 22 N., R. 31 E.

Chains

- 39.50 Small, steep canyon; course SW.
- 39.71 Set a brass tablet, $3\frac{1}{2}$ ins. diam., 3 in. stem, in cement in exposed sandstone, for the witness $\frac{1}{4}$ sec. cor., with brass cap mkd.

$$\begin{array}{c} W C \\ \frac{1}{4} \\ S 4 \quad | \quad S 3 \\ 1940 \end{array}$$

from which

An oak, 5 ins. diam., bears S. $34^{\circ} 30'$ E., 82 lks.dist., mkd. W C $\frac{1}{4}$ S 3 B T.A cedar, 8 ins. diam., bears S. $13^{\circ} 30'$ W., 99 lks.dist., mkd. W C $\frac{1}{4}$ S 4 B T.

- 40.79 The true proportionate point for the $\frac{1}{4}$ sec. cor. falls at unsafe point on cliff. Mark a cross in the sandstone at this point.
- 43.00 Top of high spur, slopes N. of W.; desc. 375 ft.
- 61.00 Foot of slope and enter open valley of the Rio Puerco, which bears nearly E. and W.
- 81.74 The cor. of secs. 3, 4, 33, and 34 on the N. bdy. of the Tp., as previously described.
- Land, rough, broken, and valley.
- Soil, sandy, sandy clear loam, and rocky sandstone; 2nd and 3rd rates.
- Timber, scattering scrub pinon and cedar.

From the cor. of secs. 9, 10, 15, and 16.

S. $89^{\circ} 48'$ W., bet. secs. 9 and 16.

Over nearly level land, through scattering scrub timber.

- 12.70 Road, bears NNW. and SSE.
- 40.17 At proportionate point.
- Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground, for the $\frac{1}{4}$ sec. cor., with brass cap mkd.

$$\frac{1}{4} \frac{S 9}{S 16} \\ 1940$$

from which

A cedar, 6 ins. diam., bears N. 31° E., 24 lks.dist., mkd. $\frac{1}{4}$ S 9 B T.

Resurvey of Portion of Subdivision of T. 22 N., R. 31 E.

Chains

A cedar, 4 ins. diam., bears S. 28° 30' E., 40 lks.

dist., mkd. 1/4 S 16 B.T.

51.90 Road, bears N. and S.

70.70 Road, bears ENE. and WSW.

80.34 The original sec. cor., which is a cedar stake 4 ins. square, 3 ft. long, set 18 ins. in the ground and mkd. with 4 grooves on E. face, with evidence of other marks rotted off.

At point for cor., with original cor. post alongside.

Set an iron post, 3 ft. long, 2 ins. diam., 27 ins. in the ground, for the cor. of secs. 8, 9, 16, and 17, with brass cap mkd.

T22NR31E	
S8	S9
S17	S16
1940	

raise a mound

of stone, 2 ft. base, 1 1/2 ft. high, W. of cor.

Land, nearly level.

Soil, sandy clay loam; 2nd rate.

Timber, scattering scrub pinon and cedar.

N. 0° 02' W., bet. secs. 8 and 9.

Over valley land, through very scattering scrub timber.

10.00 Road, bears NE. and SW.

40.23 At proportionate point.

Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground, for the 1/4 sec. cor., with brass cap mkd.

1/4	
S8	S9
1940	

from which

A cedar, 7 ins. diam., bears S. 18° 45' E., 200 lks.

dist., mkd. 1/4 S 9 B T.

A cedar, 4 ins. diam., bears S. 10° W., 281 lks.

dist., mkd. 1/4 S 8 B T.

52.10 Road, bears NE. and SW.

Resurvey of Portion of Subdivision of T. 22 N., R. 31 E.

Chains

58.50 Left bank of the Rio Puerco, 25 ft. deep, course SW.; over dry sandy bed of the Rio Puerco.

63.70 Right bank of the Rio Puerco, 10 ft. high.

76.00 Same right bank of the Rio Puerco, 20 ft. deep, course SE.; over dry sandy bed of the Rio Puerco.

80.46 True proportionate point for the sec. cor. falls in sandy bed of the Rio Puerco.

On the safest bank, 4.13 chs. S. 89° 36' E.

Set an iron post, 3 ft. long, 2 ins. diam., 27 ins. in the ground, for the witness cor. of secs. 4, 5, 8, and 9, with brass cap mkd.

WC	
T22NR31E	
S5	S4
S8	S9
1940	

raise a mound

of stone, 2 ft. base, 1½ ft. high, W. of cor.

Land, valley.

Soil, sandy clay loam; 2nd rate.

Timber, very scattering scrub cedar and pinon.

From the cor. of secs. 3, 4, 9, and 10.

S. 89° 59' W., bet. secs. 4 and 9.

Over broken land, through very scattering scrub timber, descending gradually over ancient ruins of Basket Weavers.

3.90 Wash, near head, course SW.

15.60 Top of cliff, bears NW. and SE.; leave ancient ruins and desc. 75 ft. over cliff 40 ft. high.

17.00 Base of cliff and enter nearly level valley, bears NW. and SE.

20.00 Road, bears NNW. and SSE.

36.40 Road, bears nearly N. and S.

40.03 The original ¼ sec. cor., a cedar stake, 3 ins. square, 3 ft. long, set 18 ins. in the ground, and marked ¼ on N. side.

At point for cor., with original cor. post alongside.

Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground, for the ¼ sec. cor., with brass cap mkd.

Resurvey of Portion of Subdivision of T. 22 N., R. 31 E.

Chains	
	$\frac{1}{4} \frac{S \ 4}{S \ 9}$ <p style="text-align: right;">1940</p> <p style="text-align: right;">from which</p> <p>A cedar, 12 ins. diam., bears N. 14° 30' E., 115 lks. dist., mkd. $\frac{1}{4}$ S 4 B T.</p> <p>A cedar, 10 ins. diam., bears S. 30° 45' E., 97 lks. dist., mkd. $\frac{1}{4}$ S 9 B T.</p> <p>N. 89° 36' W.</p>
4.50	Road, bears NE. and SW.
16.15	Arroyo, 1 ch. wide, course N. of W.
20.14	At proportionate point. Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground, for the W. 1/16 sec. cor., with brass cap mkd.
	$W \ 1/16 \frac{S \ 4}{S \ 9}$ <p style="text-align: right;">1940</p> <p style="text-align: right;">raise a mound</p> <p>of stone, 2 ft. base, 1$\frac{1}{2}$ ft. high, N. of cor.</p>
36.15	The witness cor. of secs. 4, 5, 8, and 9.
36.35	Left bank of the Rio Puerco, 20 ft. deep, course S.; over dry bed of the Rio Puerco.
40.28	The true point for the cor. of secs. 4, 5, 8, and 9. Land, valley and broken. Soil, sandy clay loam and sandstone; 2nd and 3rd rates. Timber, scattering scrub pinon and cedar.
	<hr/> <p>S. 89° 36' W., bet. secs. 5 and 8. Over open valley of the Rio Puerco, in sandy bed of Rio Puerco.</p>
2.40	Right bank of the Rio Puerco, 20 ft. high, course S., soon turning SE.
12.00	Railroad right of way fence, parallel to railroad.
12.50	Telegraph line, parallel to railroad.
14.00	Main line of the A. T. & S. F. Railway, as double tracked, on curve from NE. to S. of W.
14.80	Telegraph line, parallel to railroad.
15.20	Telegraph line, parallel to railroad.
16.00	Railroad right of way fence, parallel to railroad.

Resurvey of Portion of Subdivision of T. 22 N., R. 31 E.

Chains

- 36.30 Highway right of way fence, parallel to highway.
- 38.30 U. S. oiled highway No. 66, bears NE. and SW.
- 40.32 The original $\frac{1}{4}$ sec. cor., which is a sandstone 18x12x4 ins., set 12 ins. in the ground, and mkd. $\frac{1}{4}$ on N. face. This cor. is well set at old established fences bearing N., NE., and SW.
- Land, valley.
- Soil, sandy clay loam; 2nd rate.
- Timber, none.
-
- From the true point for the cor. of secs. 4, 5, 8, and 9.
- N. $0^{\circ} 03'$ E., bet. secs. 4 and 5.
- Over bed of Rio Puerco.
- 7.50 Right bank of the Rio Puerco, 15 ft. high, course SW.; over open valley of the Rio Puerco.
- 14.80 Railroad right of way fence, parallel to railroad.
- 16.30 Telegraph line, parallel to railroad.
- 17.90 Main line of the A. T. & S. F. Railway, as double tracked, bears N. $32^{\circ} 00'$ E., and S. $32^{\circ} 00'$ W.
- 19.10 Telegraph line, parallel to railroad.
- 20.11 At proportionate point.
- Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground, for the S. $\frac{1}{16}$ sec. cor., with brass cap mkd.
- S $\frac{1}{16}$

S5 | S4

1940
- from which
- An iron pipe, 3 ins. diam., about 4 ins. out of cement,
- bears N. $45^{\circ} 45'$ E., 300 lks. dist.
- Raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
- 20.40 Railroad signal line, parallel to railroad.
- 20.50 Railroad right of way fence, parallel to railroad.
- 37.90 Highway right of way fence, parallel to highway.
- 39.90 U. S. oiled highway No. 66, bears NE. and SW.
- 40.23 At proportionate point.
- Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground,

Resurvey of Portion of Subdivision of T. 22 N., R. 31 E.

Chains

for the $\frac{1}{4}$ sec. cor., with brass cap mkd. $\frac{1}{4}$

S5 | S4

1940

from which

Bench mark of the Arizona Highway Department bears

N. $41^{\circ} 08' E.$, 277 lks. dist.; a brass disc $3\frac{1}{2}$ ins. diam., set in cement, dated 1939, and

with a stamped elevation of 6145.17 ft.

42.00 Highway right of way fence, parallel to highway.

43.00 Leave valley, bears NE. and SW.; asc. gradually.

56.00 Telephone line, bears NE. and SW.

60.34 At proportionate point.

Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground,
for the N. $\frac{1}{16}$ sec. cor., with brass cap mkd.N $\frac{1}{16}$

S5 | S4

1940

raise a mound

of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.

76.50 Graded road, bears NNW. and SE.

80.41 The cor. of secs. 4, 5, 32, and 33 on the N. bdy. of the Tp., as
previously described.

Land, valley and slightly rolling.

Soil, sandy clay loam; 2nd rate.

Timber, none.

Subdivision of Sec. 4From the $\frac{1}{4}$ sec. cor. of secs. 4 and 9.N. $0^{\circ} 11' W.$, on N. and S. line, through center of sec. 4.

Over nearly level land, through very scattering scrub timber.

3.70 Road, bears NE. and SW.

Subdivision of Sections, T. 22 N., R. 31 E.

Chains

20.33 Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground, for the S. center 1/16 sec. cor., with brass cap mkd.

$$\begin{array}{c} C \\ | \\ S \ 1/16 \quad | \quad S \ 1/4 \\ | \\ C \\ 1940 \end{array}$$

from which

A cedar, 10 ins. diam., bears N. 27° 15' E., 62 lks.
dist., mkd. S 1/16 C S 1/4 B T.

A cedar, 12 ins. diam., bears S. 29° 15' W., 84 lks.
dist., mkd. S 1/16 C S 1/4 B T.

28.80 Left bank of the Rio Puerco, 20 ft. deep, course S. of W.

36.30 Right bank of the Rio Puerco, 15 ft. high, course S. of W.

40.66 Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground, for the center 1/4 sec. cor., with brass cap mkd.

$$\begin{array}{c} C \ 1/4 \ S \ 1/4 \\ | \\ 1940 \end{array}$$

from which

A cottonwood, 25 ins. diam., bears S. 25° W., 164 lks.
dist., mkd. C 1/4 S 1/4 B T.

42.70 Right bank of the Rio Puerco, 20 ft. deep, course S. of E.

49.00 Left bank of the Rio Puerco, 20 ft. high.

54.00 Left bank of the Rio Puerco, 20 ft. deep, course SSW.

60.92 True point for the N. center 1/16 sec. cor. falls in bed of Rio Puerco. On nearest and safest bank, 1.82 chs., S. 89° 38' W.
Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground, for the witness N. center 1/16 sec. cor., with brass cap mkd.

$$\begin{array}{c} W \ C \\ | \\ C \\ | \\ N \ 1/16 \quad | \quad S \ 1/4 \\ | \\ C \\ 1940 \end{array}$$

raise a mound

of stone, 2 ft. base, 1 1/2 ft. high, W. of cor.

Subdivision of Sections, T. 22 N., R. 31 E.

Chains	
70.60	Right bank of the Rio Puerco, 20 ft. high, course SSW.
75.20	Wash, $1\frac{1}{2}$ chs. wide, course SE.
79.50	Railroad right of way fence, bears N. 32° E., and S. 32° W.
79.80	Telegraph line, bears N. 32° E., and S. 32° W.
80.90	Railroad signal line, bears N. 32° E., and S. 32° W.
81.24	The $\frac{1}{4}$ sec. cor. of secs. 4 and 33 on the N. bdy. of the Tp., as previously described.

	From the witness $\frac{1}{4}$ sec. cor. of secs. 3 and 4.
	S. $89^\circ 49'$ W., on off-set of E. and W. line through center of sec. 4.
	Over rough, broken land, through scattering scrub timber, descending 375 ft.
5.00	Off-set 1.08 chs. N. $0^\circ 13'$ W. to true line, and continue measurement.
16.00	Base of slope and enter Rio Puerco valley, bears NE. and SW.
18.00	Road, bears N. and S.
22.00	Wash, 20 lks. wide, course NW.
27.50	Rio Puerco, 3 chs. wide, course W. of S.
40.01	The center $\frac{1}{4}$ sec. cor.
60.03	Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground, for the W. center $1/16$ sec. cor., with brass cap mkd.
	$C \frac{W \ 1/16}{S \ 4} C$ 1940
	raise a mound
	of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor.
64.66	Railroad right of way fence, parallel to railroad.
65.56	Telegraph line, parallel to railroad.
66.33	A. T. & S. F. Railway, as double tracked, bears N. 32° E., and S. 32° W.
67.45	Telegraph line, parallel to railroad.
67.85	Railroad right of way fence, parallel to railroad.
68.05	Telephone line, parallel to railroad.
80.05	The $\frac{1}{4}$ sec. cor. of secs. 4 and 5.

Subdivision of Sections, T. 22 N., R. 31 E.

Chains

From the W. 1/16 sec. cor. of secs. 4 and 9.

N. 0° 04' W., on N. and S. line, through center SW $\frac{1}{4}$ of sec. 4.

Over open valley of the Rio Puerco.

1.00 Arroyo, 1 ch. wide, course N. of W.

17.60 Left bank of the Rio Puerco, 20 ft. deep, course SW.

20.22 True point for SW. 1/16 sec. cor. falls in dry sandy bed of the Rio Puerco.

21.80 Right bank of the Rio Puerco, 20 ft. high.

22.40 Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground, for witness SW. 1/16 sec. cor., with brass cap mkd.

WC
SW 1/16
S $\frac{1}{4}$

1940

raise a mound

of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor.

40.44 The W. center 1/16 sec. cor.

N. 0° 04' W., on N. and S. line, through center NW $\frac{1}{4}$ of sec. 4.

Over nearly level open valley of the Rio Puerco.

5.90 Railroad right of way fence, parallel to railroad.

8.50 Telegraph line, parallel to railroad.

10.20 Main line of the A. T. & S. F. Railway, as double tracked, bears N. 32° E., and S. 32° W.

11.35 Telegraph line, parallel to railroad.

12.45 Telegraph line, parallel to railroad.

12.75 Railroad right of way fence, parallel to railroad.

18.63 Highway right of way fence, parallel to highway.

20.18 Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground, for the NW. 1/16 sec. cor., with brass cap mkd.

NW 1/16
S $\frac{1}{4}$

1940

raise a mound

of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor.

Subdivision of Sections, T. 22 N., R. 31 E.

Chains	
20.77	U. S. oiled highway No. 66, bears NE. and SW.
22.87	Highway right of way fence, bears NE. and SW.
25.40	Graded road, bears nearly E. and W.
40.37	The W. 1/16 sec. cor. of secs. 4 and 33 on the N. bdy. of the Tp., as previously described.
	From the S. center 1/16 sec. cor.
	N. 89° 54' W., on E. and W. line, through center SW $\frac{1}{4}$ of sec. 4.
	Over nearly level open valley of the Rio Puerco.
12.10	Left bank of the Rio Puerco, 20 ft. deep, course S. of W.
20.08	The true point for the SW. 1/16 sec. cor. falls in sandy bed of the Rio Puerco.
30.00	Right bank of the Rio Puerco, 20 ft. high, course W. of S. from N. of E.
37.11	Railroad right of way fence, parallel to railroad.
38.05	Telegraph line, parallel to railroad.
38.88	Main line of the A. T. & S. F. Railway, as double tracked, bears N. 32° E., and S. 32° W.
40.17	The S. 1/16 sec. cor. of secs. 4 and 5.
	From the true point for the N. center 1/16 sec. cor.
	S. 89° 38' W., on E. and W. line, through center NW $\frac{1}{4}$ of sec. 4.
	Over sandy bed of Rio Puerco.
1.70	Right bank of the Rio Puerco, 20 ft. high, course SSW.
1.82	The witness N. center 1/16 sec. cor.
11.80	Railroad right of way fence, parallel to railroad.
12.70	Telegraph line, parallel to railroad.
13.85	Main line of the A. T. & S. F. Railway, as double tracked, bears N. 32° E., and S. 32° W.
15.10	Railroad right of way fence, parallel to railroad.
18.40	Highway right of way fence, parallel to highway.
20.00	The NW. 1/16 sec. cor.
20.60	U. S. oiled highway No. 66, bears NE. and SW.
22.70	Highway right of way fence, parallel to railroad.
27.00	Indian hogan, bears S., about 4 chs. dist.

Subdivision of Sections, T. 22 N., R. 31 E.

Chains

40.00

The N. 1/16 sec. cor. of secs. 4 and 5.

General Description of T. 22 N., R. 31 E.

The land embraced within the resurveyed area in the northeast portion of this fractional township consists of high broken mesas, with wide valleys. The rough broken mesas lie along the Arizona-New Mexico boundary. This rough area consists of sandstone formation with innumerable cliffs, and is covered with a growth of scrub pinon and cedar timber valuable as fire wood.

The valleys are quite wide and for the most part are open. The water courses cut deep perpendicular banks in the earthen valley bottoms. The Rio Puerco drains this entire area. The stream bed is in cut banks averaging 20 ft. deep, and has a sandy water course several chains in width, which runs a continuous stream of water during seasons of rain or snow. The Rio Puerco flows southwest through the area.

A small spring is located in section 10 in a small canyon next to base of high sandstone cliffs.

The corner of sections 3, 4, 9, and 10 falls within an area of ancient ruins formerly occupied by people who are now called the Basket Weavers. The area is so well and so completely covered by dirt accumulation of the centuries that the main clue to the ruins is an earthen discoloration caused by particles of charcoal and ashes.

The main line of the A. T. & S. F. Railway as double tracked, follows the Rio Puerco valley.

Quite a few Navajo Indians live within the area.

4-680
(Revised May 1934)

BOOK 4284

UNITED STATES
DEPARTMENT OF THE INTERIOR
GENERAL LAND OFFICE

FIELD ASSISTANTS

NAMES	CAPACITY
<u>Glenn R. Haste</u>	
Jesse L. Gassman	Principal Assistant
Paul Spencer	Chairman
David C. Oxley, Jr.	Axeman
David H. Gaylor	Cornerman
Blair Batson	Cornerman
Lewis A. Penwright	Flagman
<u>John W. Berberich</u>	
Gifford P. Neis	Principal Assistant
Blas Garcia	Chairman
Elmo Bell	Chairman
Leslie L. Watson, Jr.	Axeman
Luis A. Lucero	Flagman
Henry T. McKenzie	Truck Driver

BOOK 4234

CERTIFICATE OF SURVEYOR

I, We, Glenn R. Haste, Cadastral Engineer, and John W. Berberich, Public Land Surveyor, HEREBY CERTIFY upon honor that, in pursuance of special instructions bearing date of the 30th day of January, 1940, received from the district cadastral engineer for New Mexico, with assignment instructions dated April 1, and April 19, 1940 we have resurveyed the North Boundary, a portion of the West Boundary, and a portion of the Subdivision, of Township 22 North, Range 31 East.

of the Gila & Salt River Meridian, in the State of Arizona, which are represented in the foregoing field notes as having been executed by me and under our direction; and that said survey has been made in strict conformity with said instructions, the Manual of Instructions for the Survey of the Public Lands of the United States, and in the specific manner described in the foregoing field notes.

Santa Fe, New Mexico

August 24, 1940.

Glenn R. Haste

Cadastral Engineer

John W. Berberich

Public Land Surveyor

CERTIFICATE OF APPROVAL

OFFICE OF SUPERVISOR OF SURVEYS,

Denver, Colorado, March 27, 1941, 1940

The foregoing field notes of the survey of resurvey of the North Boundary, a portion of the West Boundary, and a portion of the Subdivision, of Township 22 North, Range 31 East.

executed by Glenn R. Haste, Cadastral Engineer, and John W. Berberich, Public Land Surveyor, under special instructions dated January 30, 1940, and assignment instructions dated April 1, and April 19, 1940, having been critically examined, and the necessary corrections made prior to their certification by the engineer, the said field notes, and the survey therein described, are hereby approved.

Charles A. Johnson

Supervisor of Surveys.

CERTIFICATE OF TRANSCRIPT

I CERTIFY that the foregoing transcript of the field notes of the above-described surveys in is a true copy of the original field notes on file in the public survey office.

Supervisor of Surveys.