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BOOK 4400

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4-679  
(April 1933)

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REGION V  
PHOENIX, ARIZONA

# FIELD NOTES

Of the Dependent Resurvey of the

Arizona - New Mexico Boundary

From Four Corners to the 33 Mile Corner

Of the \_\_\_\_\_ Meridian,

In the State of \_\_\_\_\_

## EXECUTED BY

Ty White, Cadastral Engineer

Under special instructions dated April 5 and April 18, 1951, which provided for the surveys included under Group No. 276, Ariz., ~~bearing the approval of the Commissioner of the General Land Office under date of~~ April 10, 1951 approved April 20, 1951 and assignment instructions dated April 16, 1951.

Survey commenced April 20, 1951.

Survey completed May 23, 1951.

4400

BOOK 4400

# INDEX DIAGRAM.

*Township* \_\_\_\_\_, *Range* \_\_\_\_\_

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## Dependent Resurvey, Portion of Ariz.- N. M. Bdy.

The survey was executed with a Gurley solar transit, Serial No. 461263, property of and conforming to the standard specifications of the Bureau of Land Management. The instrument was in good condition and having been placed in satisfactory adjustment prior to the beginning of the survey, was tested and found free from appreciable error.

The measurements were made with narrow steel tapes, 5 chains in length, graduated every link for the first 100 links and the balance at intervals of 10 links. Independent measurements were made by two sets of chainman; the recorded distances are the mean of the two measurements. The tapes were tested by comparison with a standard 1 chain steel tape and found correct. Measurements were made on the slope, and the vertical angle of each interval was ascertained by clinometers which were kept in good adjustment; the horizontal equivalents are entered in the field note record. Lines connecting the recovered corners were run by the random and true method and only the true line notes are included in the following record.

Data furnished with the special instructions give the geographic position for the corner of Colorado, Utah, Arizona, and New Mexico as latitude  $36^{\circ} 59' 56.30''$  N. and longitude  $109^{\circ} 02' 40.24''$  W., as determined by the U. S. Coast and Geodetic Survey in 1934, and the corner is triangulation station "Fourcorners" of that service. Their published data also shows Reference Mark No. 3 for this station as bearing N.  $9^{\circ} 44' 09''$  W., 13.91 chains distant.

Transit lines without the use of the solar attachment are employed in this survey, the azimuths being referred to the U. S. Coast and Geodetic Survey triangulation station "Fourcorners" and to meridians established by Polaris observations as follows:

April 21, 1951, at a station in camp, from which the 10 Mile Cor. on the Ariz.- N. M. boundary, bears S.  $71^{\circ} 34'$  W., 6.78 chains dist., in latitude  $36^{\circ} 51' 19''$  N. and longitude  $109^{\circ} 02' 36''$  W., as determined from data furnished with the special instructions, I make an hour angle observation on Polaris W. of the meridian for azimuth, making four observations, two each with the telescope in direct and reversed positions, reading the horizontal angles from a well defined point on the skyline, 15 chains northeasterly, W. to Polaris. My watch reads correct Mountain Standard Time as checked by radio time signals.

Mean watch time of observation	6h 52m 30s p.m.
Watch fast of l.m.t.	0h 16m 12s
Mean horizontal deflection angle	$2^{\circ} 53' 45''$
Azimuth of Polaris	$1^{\circ} 10' 42''$
Bearing of reference point	N. $1^{\circ} 43' 03''$ E.

May 24, 1951, at a station approximately 24 chains N. of the 27 Mile Cor. on the Ariz.- N. M. boundary, in approximate latitude  $36^{\circ} 36' 45''$  N. and longitude  $109^{\circ} 02' 40''$  W., as determined from data given with the special instructions, elevation approximately 7500 ft. I make an hour angle observation on Polaris W. of the meridian for azimuth and latitude, making four observations, two each with the telescope in direct and reversed positions, observing simultaneously the vertical angle to Polaris and the horizontal angle from the W. edge of a bluff on the skyline approximately 10 miles northeasterly, W. to Polaris. My watch reads correct Mountain Standard Time as checked by radio time signals.

Mean watch time of observation	7h 27m 30s p.m.
Watch fast of l.m.t.	0h 16m 12s
Mean horizontal deflection angle	$3^{\circ} 55' 06''$
Azimuth of Polaris	$0^{\circ} 43' 24''$
Bearing of reference point	N. $3^{\circ} 11' 42''$ E.
Vertical angle to Polaris	$35^{\circ} 51' 35''$
Reduced latitude	$36^{\circ} 36' 50''$ N.

This survey was initiated on the request of the Bureau of Indian Affairs, Navajo Service.

## Dependent Resurvey, Portion of Ariz.- N. M. Bdy.

Chains

Reestablishment of the Survey Executed by  
Chandler Robbins, U. S. Astronomer and Surveyor, in 1875.

## 1st Mile

Beginning at the corner of Colorado, Utah, Arizona, and New Mexico, (U. S. Coast and Geodetic Survey triangulation station "Fourcorners") which is monumented by a General Land Office brass tablet set in a concrete post by E. H. Kimmell, U. S. Surveyor, in 1931, marked and witnessed as described in the official record.

S.  $0^{\circ} 29'$  W., on the 1st mile.

Over rolling and broken land, through scattering undergrowth.

14.00 Wash, 40 lks. wide, drains NW.

34.90 Trail road, bears NE. and SW.

39.82 Point for the  $\frac{1}{2}$  Mile Cor., at proportionate dist.

Set an iron post, 3 ft. long, 1 in. diam., 30 ins. in the ground, with brass cap mkd.

$\frac{1}{2}$  M  
ARIZ | N M  
1875  
1951

raise a mound of stone, 3 ft. base,  $2\frac{1}{2}$  ft. high, S. of cor.

46.05 Telephone line, bears E. and W.

65.70 Wash, 50 lks. wide, drains E.

79.64 The 1 Mile Cor., monumented by a properly marked sandstone, 16x12x4 ins., firmly set in the ground.

At the corner point

Set an iron post, 30 ins. long,  $2\frac{1}{2}$  ins. diam., 27 ins. in the ground, with brass cap mkd.

1 M  
ARIZ | N M  
1875  
1951

from which

A juniper fork, 5 ins. diam., bears N.  $73\frac{1}{2}^{\circ}$  E., 126 lks. dist., mkd. 1M NM BT.

A juniper, 8 ins. diam., bears S.  $3\frac{1}{4}^{\circ}$  W., 222 lks. dist., mkd. 1M ARIZ BT.

Bury the old corner stone alongside the iron post.

Land, rolling and broken.

Soil, sandy clay.

Timber, sparse juniper; undergrowth, sage.

## 2nd Mile

S.  $0^{\circ} 28'$  E., on the 2nd mile.

Over rolling and broken land, through scattering timber and undergrowth.

1.70 Wash, 12 lks. wide, drains E.

6.00 Low spur, slopes E.

15.25 Wash, 40 lks. wide, drains NE.

21.15 Same wash, drains NW.

22.50 Same wash, drains NE.

25.90 Small ravine, drains NW.

39.88 Point for the  $1\frac{1}{2}$  Mile Cor., at proportionate dist.

Set an iron post, 3 ft. long, 1 in. diam., 29 ins. in the ground, with brass cap mkd.

$1\frac{1}{2}$  M  
ARIZ | N M  
1875  
1951

raise a mound of stone,  $3\frac{1}{2}$  ft. base, 3 ft. high, S. of cor.

59.00 Wash, 20 lks. wide, drains NW.

79.76 The 2 Mile Cor., monumented by a properly marked sandstone, 22x12x4 ins., firmly set in the ground.

## Dependent Resurvey, Portion of Ariz. - N. M. Bdy.

## Chains

At the corner point

Set an iron post, 30 ins. long,  $2\frac{1}{2}$  ins. diam., 18 ins. in the ground to solid rock and in a mound of stone to top, with brass cap mkd.

2M  
 ARIZ | N M  
 1875  
 1951

raise a mound of stone,  $3\frac{1}{2}$  ft. base, 3 ft. high, S. of cor., and set the old corner stone alongside the iron post.

Land, rolling and broken.

Soil, sand and clay.

Timber, very scattered small juniper; undergrowth, sage.

## 3rd Mile

S.  $0^{\circ} 08'$  W., on the 3rd mile.

Over rolling land, through scattering undergrowth.

- 4.40 Trail road, bears NE. and SW.  
 26.40 Trail road, bears ENE. and WSW.  
 40.10 Point for the  $2\frac{1}{2}$  Mile Cor., at proportionate dist.

Set an iron post, 3 ft. long, 1 in. diam., 20 ins. in the ground to solid rock and in a mound of stone to top, with brass cap mkd.

$2\frac{1}{2}$  M  
 ARIZ | N M  
 1875  
 1951

raise a mound of stone,  $3\frac{1}{2}$  ft. base, 3 ft. high, S. of corner.

- 53.30 Trail road, bears E. and W.  
 57.20 Trail road, bears NE. and SW.  
 80.20 The 3 Mile Cor.; monumented by a properly marked sandstone, 20 x 12 x 6 ins., lying on the ground by old mound of stone.

At the corner point

Set an iron post, 30 ins. long,  $2\frac{1}{2}$  ins. diam., 27 ins. in the ground, with brass cap mkd.

3M  
 ARIZ | N M  
 1875  
 1951

raise a mound of stone,  $3\frac{1}{2}$  ft. base, 3 ft. high, S. of cor., and bury the old corner stone alongside the iron post.

Land, rolling.

Soil, clay and sandy.

No timber; undergrowth, scattering sage.

## Dependent Resurvey, Portion of Ariz.- N. M. Bdy.

Chains	4th Mile
	S. 0° 14' W., on the 4th mile.
	Over rolling land.
2.50	Ascend 145 ft. over a N. slope.
9.35	Top of ascent, thence over rolling land.
20.20	Wash, 30 lks. wide, drains E.
39.80	Wash, 10 lks. wide, drains ESE.
39.95	Point for the 3½ Mile Cor., at proportionate dist.
	Set an iron post, 3 ft. long, 1 in. diam., 28 ins. in the ground, with brass cap mkd.
	3½ M ARIZ   N M 1875 1951
	raise a mound of stone, 3 ft. base, 2½ ft. high, S. of cor.
55.60	Wash, 20, drains ESE.
74.40	Descend 100 ft. over a S. slope.
79.40	Wash, 40 lks. wide, drains ESE.
79.90	Point for the 4 Mile Cor., at proportionate dist; there is no evidence of the original witness corner which is called for at 30 lks. S. of the true corner point.
	Set an iron post, 30 ins. long, 2½ ins. diam., 20 ins. in the ground to solid rock and in a mound of stone to top, with brass cap mkd.
	4M ARIZ   N M 1875 1951
	raise a mound of stone, 3 ft. base, 2½ ft. high, S. of cor.
	Land, rolling.
	Soil, sandy clay.
	Timber, a few scattered juniper; undergrowth, sage.
	5th Mile
	S. 0° 14' W., on the 5th mile.
	Over rolling and broken land.
0.80	Wash, 15 lks. wide, drains ENE; asc. 90 ft. over a N. slope.
8.00	A spur, slopes E; desc. 100 ft. over a S. slope.
19.25	Wash, 50 lks. wide, in small ravine, drains ENE; asc. 85 ft. over a NW. slope.
21.68	The closing corner of Ts. 31 and 32 N., R. 21 W., N. M. P. M.
39.95	Point for the 4½ Mile Cor., at proportionate dist.
	Set an iron post, 3 ft. long, 1 in. diam., 30 ins. in the ground,

## Dependent Resurvey, Portion of Ariz.- N. M. Bdy.

## Chains

with brass cap mkd.

4½ M

ARIZ | N M

1875  
1951

raise a mound of stone, 2½ ft. base, 2 ft. high, S. of corner.

54.60 Trail road, bears NE. and SW.

79.90 The 5 Mile Cor., monumented by a properly marked sandstone, 22 x 14 x 5 ins., firmly set in a mound of stone.

At the corner point

Set an iron post, 30 ins. long, 2½ ins. diam., 27 ins. in the ground, with brass cap mkd.

5M

ARIZ | N M

1875  
1951

raise a mound of stone, 4 ft. base, 3 ft. high, S. of cor., and bury the old corner stone alongside the iron post.

Land, rolling and hilly.

Soil, sandy clay.

No timber; undergrowth, sage.

## 6th Mile

S. 0° 07' E., on the 6th mile.

Over rolling and broken land.

4.50 Trail road, bears E. and W.

30.60 Wash, 15 lks. wide, drains E.

39.92 Point for the 5½ Mile Cor., at proportionate dist.

Set an iron post, 3 ft. long, 1 in. diam., 30 ins. in the ground, with brass cap mkd.

5½ M

ARIZ | N M

1875  
1951

raise a mound of stone, 3 ft. base, 2½ ft. high, S. of cor.

42.50 Wash, 14 lks. wide, near head, drains E.

50.00 Desc. 60 ft. over a SW. slope.

54.90 Wash, 60 lks. wide, winds SE.

72.70 Wash, 35 lks. wide, drains NE.

79.84 Point for the 6 Mile Cor., at proportionate dist: there is no evidence of the original corner.

## Dependent Resurvey, Portion of Ariz.- N. M. Bdy.

Chains	
	<p>Set an iron post, 30 ins. long, 2<math>\frac{1}{2}</math> ins. diam., 6 ins. in the ground to solid rock and in a mound of stone to top, with brass cap mkd.</p> <p style="text-align: center;">6M ARIZ   N M 1875 1951</p> <p>Land, rolling and broken. Soil, sandy clay. Timber, a few scattered juniper; undergrowth, sage.</p>
	7th Mile
	S. 0° 07' E., on the 7th mile.
	Over rolling and broken land.
15.00	Asc. 93 ft. over a NW. slope, bears NE. and SW.
18.50	Top of a sandstone bluff, 40 ft. high, bears NE. and SW; thence over rolling land.
37.70	Small sandstone rim, bears NNW. and SSE; desc. 25 ft. over a SW. slope.
39.92	Point for the 6 $\frac{1}{2}$ Mile Cor., at proportionate dist.
	Set an iron post, 3 ft. long, 1 in. diam., 30 ins. in the ground, with brass cap mkd.
	6 $\frac{1}{2}$ M ARIZ   N M 1875 1951
	raise a mound of stone, 3 ft. base, 2 $\frac{1}{2}$ ft. high, S. of cor.
	Desc. 30 ft. over a SW. slope.
41.90	Wash, 30 lks. wide, drains NW., asc. 50 ft. over a NE. slope.
45.00	Top of ascent; thence over rolling land.
69.60	Trail road, bears ENE. and W.
71.70	Trail road, bears ENE. and WSW.
76.40	Trail road, bears NE. and SW.
79.84	The 7 Mile Cor., monumented by a properly marked sandstone, 22 x 10 x 5 ins., firmly set in a mound of stone.
	At the corner point
	Set an iron post, 30 ins. long, 2 $\frac{1}{2}$ ins. diam., 27 ins. in the ground, with brass cap mkd.
	7M ARIZ   N M 1875 1951
	raise a mound of stone, 3 ft. base, 2 $\frac{1}{2}$ ft. high, S. of cor., and bury the old corner stone alongside the iron post.

## Dependent Resurvey, Portion of Ariz.- N. M. Bdy.

## Chains

Land, rolling and broken.  
Soil, sandy clay.  
Timber, a few scattered juniper; undergrowth, sage.

## 8th Mile

S.  $0^{\circ} 03'$  W., on the 8th mile.

Over rolling land, through very scattering, small juniper.

- 9.90 Trail road, bears WNW. and ESE.  
22.55 Wash, 40 lks. wide, drains ENE; asc. 34 ft. over a NW. slope.  
31.00 Top of ascent; thence over rolling land.  
37.35 Wash, 15 lks. wide, drains NNE; asc. 40 ft. over a NW. slope.  
40.06 Point for the  $7\frac{1}{2}$  Mile Cor., at proportionate dist.

Set an iron post, 3 ft. long, 1 in. diam., 30 ins. in the ground, with brass cap mkd.

$7\frac{1}{2}$  M  
ARIZ | N M  
1875  
1951

raise a mound of stone, 3 ft. base,  $2\frac{1}{2}$  ft. high, S. of cor.

- 63.20 Trail road, bears NE. and SW.  
78.20 Wash, 10 lks. wide, drains ENE.  
80.12 The 8 Mile Cor., monumented by a properly marked sandstone, 18 x 12 x 4 ins., firmly set in the ground.

At the corner point

Set an iron post, 30 ins. long,  $2\frac{1}{2}$  ins. diam., 27 ins. in the ground, with brass cap mkd.

8M  
ARIZ | N M  
1875  
1951

from which

An original bearing tree (not marked):

A juniper, 14 ins. diam., bears S.  $52^{\circ}$  W., 8 lks. dist.

New bearing trees:

A juniper, 20 ins. diam., bears N.  $16\frac{1}{4}^{\circ}$  E., 127 lks. dist.,  
mkd. 8M NM BT.

A juniper, 14 ins. diam., bears N.  $31\frac{1}{4}^{\circ}$  W., 48 lks. dist.,  
mkd. 8M ARIZ BT.

Bury the old corner stone alongside the iron post.

Land, rolling and broken.  
Soil, sandy clay.  
Timber, scattering juniper.

## Dependent Resurvey, Portion of Ariz.- N. M. Bdy.

Chains	9th Mile
	S. 0° 02' W., on the 9th mile.
	Over rolling land, through scattering timber.
13.25	Wash, 12 lks. wide, drains NE.
14.55	Trail road, bears E. and W.
22.30	Trail road, bears E. and W.
24.70	Desc. 50 ft. over a S. slope.
28.40	Desc. 50 ft. over a gradual SE. slope.
36.75	Wash, 10 lks. wide, drains ENE.
39.85	Point for the 8½ Mile Cor., at proportionate dist.
	Set an iron post, 3 ft. long, 1 in. diam., 30 ins. in the ground, with brass cap mkd.
	$8\frac{1}{2}$ M ARIZ   N M 1875 1951
	raise a mound of stone, 3 ft. base, 2½ ft. high, S. of cor.
41.30	Trail road, bears E. and W.
50.85	Trail road, bears E. and W.
59.45	Wash, 35 lks. wide, drains E.
62.20	Wash, 50 lks. wide, drains E.
63.10	Telephone line, bears NW. and SE.
65.00	Bladed road, bears NW., and SE. to Shiprock, N. M.
68.90	Wash, 50, drains NE.
79.70	The 9 Mile Cor., monumented by a properly marked sandstone, 24 x 10 x 4 ins., firmly set in a mound of stone.
	At the corner point
	Set an iron post, 30 ins. long, 2½ ins. diam., 16 ins. in the ground to solid rock and in a mound of stone to top, with brass cap mkd.
	9M ARIZ   N M 1875 1951
	raise a mound of stone, 3 ft. base, 2½ ft. high, S. of cor., and bury the old corner stone alongside the iron post.
	Land, rolling and broken. Soil, sandy clay. Timber, scattering juniper.

## Dependent Resurvey, Portion of Ariz.- N. M. Bdy.

Chains	10th Mile
	S. $0^{\circ} 03'$ E., on the 10th mile.
	Over rolling land, through very scattering timber.
29.00	Asc. 140 ft. over a broken, rocky N. slope.
34.65	Top of a sandstone ledge, bears E. and W.
39.41	Set an iron post, 3 ft. long, 1 in. diam., 30 ins. in the ground, for Witness $9\frac{1}{2}$ Mile Cor. monument, with brass cap mkd.
	$9\frac{1}{2}$ M ARIZ   N M W C ↓ 1875 1951
	from which
	A pinon, 12 ins. diam., bears S. $70^{\circ}$ E., 61 lks. dist., mkd. $9\frac{1}{2}$ M NM BT.
	A juniper, 5 ins. diam., bears N. $65^{\circ}$ W., 74 lks. dist., mkd. $9\frac{1}{2}$ M ARIZ BT.
	Raise a mound of stone, 3 ft. base, $2\frac{1}{2}$ ft. high, S. of cor.
39.91	True point for the $9\frac{1}{2}$ Mile Cor., at proportionate dist., falls in a wash in bottom of small ravine which drains NE.
	Asc. 125 ft. over a N. slope.
44.30	Top of ascent, bears E. and W., thence over rolling land.
53.80	Low spur, slopes E.
59.40	Wash, 25 lks. wide, drains NE.
71.00	Desc. 100 ft. over a S. slope.
74.80	Foot of descent, bears E. and W; thence over gently rolling land.
78.80	Trail road, bears E. and W.
79.82	The 10 Mile Cor., monumented by a properly marked sandstone, 16 x 10 x 4 ins., firmly set in a mound of stone.
	At the corner point
	Set an iron post, 30 ins. long, $2\frac{1}{2}$ ins. diam., 27 ins. in the ground, with brass cap mkd.
	10M ARIZ   N M 1875 1951
	from which
	A juniper, 8 ins. diam., bears N. $58\frac{1}{2}^{\circ}$ E., 158 lks. dist., mkd. 10M NM BT.
	A juniper, 6 ins. diam., bears N. $51\frac{3}{4}^{\circ}$ W., 291 lks. dist., mkd. 10M ARIZ BT.

## Dependent Resurvey, Portion of Ariz.- N. M. Bdy.

## Chains

Raise a mound of stone,  $2\frac{1}{2}$  ft. base, 2 ft. high, S. of cor., and bury the old corner stone alongside the iron post.

Land, rolling and hilly.  
Soil, sandy clay.  
Timber, scattering juniper.

## 11th Mile

S.  $0^{\circ} 03'$  W., on the 11th mile.

Over gently rolling land, through sage.

22.64 The closing corner of Ts. 30 and 31 N., R. 21 W., N. P. M.

22.65 Trail road, bears E. and W.

40.03 Point for the  $10\frac{1}{2}$  Mile Cor., at proportionate dist.

Set an iron post, 3 ft. long, 1 in. diam., 30 ins. in the ground, with brass cap mkd.

$10\frac{1}{2}$  M

ARIZ | N M

1875

1951

raise a mound of stone, 3 ft. base,  $2\frac{1}{2}$  ft. high, S. of cor.

42.00 Trail road, bears NE. and SW.

48.00 Wash, 30 lks. wide, drains ESE.

49.35 Wash, 15 lks. wide, drains NE.

57.65 Trail road, bears NE. and SW.

71.20 Wash, 60 lks. wide, drains ENE.

80.06 Point for the 11 Mile Cor., at proportionate dist; there is no evidence of the original corner.

Set an iron post, 30 ins. long,  $2\frac{1}{2}$  ins. diam., 27 ins. in the ground, with brass cap mkd.

11 M

ARIZ | N M

1875

1951

raise a mound of stone,  $3\frac{1}{2}$  ft. base, 3 ft. high, S. of cor.

Land, rolling.  
Soil, sandy clay.  
Timber, scattering juniper; undergrowth, sage.

## 12th Mile

S.  $0^{\circ} 03'$  W., on the 12th mile.

Over rolling land, through scattering timber and undergrowth.

16.00 Wash, 10 lks. wide, drains ENE.

40.03 Point for the  $11\frac{1}{2}$  Mile Cor., at proportionate dist.

Set an iron post, 3 ft. long, 1 in diam., 18 ins. in the ground to

## Dependent Resurvey, Portion of Ariz.- N. M. Bdy.

Chains

solid rock and in a mound of stone to top, with brass cap mkd.

11½M

ARIZ | N M

1875

1951

raise a mound of stone, 3½ ft. base, 3 ft. high, S. of cor.

43.55 Wash, 15 lks. wide, drains NE; asc. 60 ft. over a NW. slope.

52.50 Top of ascent; thence over a rolling E. slope.

57.65 Wash, 10 lks. wide, drains ENE., and a trail road bears NE. and SW.

63.75 Wash, 20 lks. wide, drains NE.

72.50 Wash, 10 lks. wide, drains NE.

76.50 Trail road, bears ENE. and WSW.

80.06 The 12 Mile Cor., monumented by a properly marked sandstone,  
20 x 14 x 4 ins., firmly set in a mound of stone.

At the corner point

Set an iron post, 30 ins. long, 2½ ins. diam., 27 ins. in the ground,  
with brass cap mkd.

12 M

ARIZ | N M

1875

1951

from which

A juniper, 12 ins. diam., bears N. 64 3/4° E., 72 lks. dist.,  
mkd. 12M NM BT.A juniper, 18 ins. diam., bears N. 27° W., 187 lks. dist.,  
mkd. 12M ARIZ BT.Raise a mound of stone, 2½ ft. base, 2 ft. high, S. of cor., and  
bury the old corner stone alongside the iron post.

Land; rolling and broken.

Soil, sandy clay.

Timber, scattering juniper and pinon; undergrowth, sage.

## 13th Mile

S. 0° 11' E., on the 13th mile.

Over rolling and broken land, through scattering timber and sage.

5.80 Desc. 30 ft. into small canyon.

6.18 Point subsequently determined for closing cor. Ts. 39 and 40 N., R. 31 E.,

10.80 Wash, 25 lks. wide, drains NE; asc. 40 ft.

13.20 Top of ascent; thence along rolling E. slope.

21.30 Enter a wash, 30 lks. wide, drains NE. from S.

23.30 Leave same, drains N. from SE; asc. 90 ft. over broken NW. slope.

24.05 Trail road, bears E. and W.

G. &amp; S.R. M.

## Dependent Resurvey, Portion of Ariz. - N. M. Bdy.

## Chains

39.56 Point for the  $12\frac{1}{2}$  Mile Cor., at proportionate dist.

Set an iron post, 3 ft. long, 1 in. diam., 6 ins. in the ground to solid rock and in a mound of stone to top, with brass cap mkd.

$12\frac{1}{2}$ M

ARIZ | N M

1875

1951

from which

A pinon, 9 ins. diam., bears N.  $30^\circ$  E., 61 lks. dist.,  
mkd.  $12\frac{1}{2}$ M NM BT.

A pinon, 6 ins. diam., bears N.  $65^\circ$  W., 53 lks. dist.,  
mkd.  $12\frac{1}{2}$ M ARIZ BT.

Asc. 75 ft. over a broken N. slope.

48.25 A short spur, slopes W; thence over rolling and broken land.

52.50 A trail road, bears NW. and SE.

63.50 Wash, 10 lks. wide, drains NW.

69.80 Wash, 10 lks. wide, drains NNE.

75.60 Trail road, bears NE. and SW.

79.12 The 13 Mile Cor., monumented by a properly marked sandstone,  
18 x 14 x 6 ins., firmly set in the ground.

At the corner point

Set an iron post, 30 ins. long,  $2\frac{1}{2}$  ins. diam., 26 ins. in the ground,  
with brass cap mkd.

13 M

ARIZ | N M

1875

1951

from which

A juniper, 8 ins. diam., bears S.  $80\frac{1}{2}^\circ$  E., 83 lks. dist.,  
mkd. 13M NM BT.

A pinon, 6 ins. diam., bears N.  $64^\circ$  W., 97 lks. dist.,  
mkd. 13M ARIZ BT.

Raise a mound of stone, 3 ft. base,  $2\frac{1}{2}$  ft. high, S. of cor., and  
bury the old corner stone alongside the iron post.

Land, rolling, broken, and hilly.

Soil, sandy clay.

Timber, juniper and pinon; undergrowth, sage.

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14th Mile

S.  $0^\circ 31'$  W., on the 14th mile.

Over rolling land, through pinon and juniper.

8.10 A wash, 20 lks. wide, drains NE.

15.50 Desc. 60 ft. over a S. slope.

## Dependent Resurvey, Portion of Ariz.- N. M. Bdy.

## Chains

- 18.70 Wash, 15 lks. wide, drains E; thence over rolling and broken land.
- 19.40 Wash, 20 lks. wide, drains ENE.
- 21.00 Desc. 50 ft. over a SE. slope.
- 26.25 Wash, 30 lks. wide, drains NE; asc. 50 ft. over broken N. slope.
- 30.00 Top of ascent; desc. 125 ft. over a SE. slope.
- 34.22 Set an iron post, 3 ft. long, 1 in. diam., over an X mkd. on solid sandstone, in a mound of stone to top, for Witness 13 $\frac{1}{2}$  Mile Cor., with brass cap mkd.

13 $\frac{1}{2}$ M  
 ARIZ | N M  
 ↓  
 W C  
 ↓  
 1875  
 1951

- 34.42 True point for the 13 $\frac{1}{2}$  Mile Cor., at proportionate dist., falls on S. face of a sandstone cliff.
- 35.55 Bottom of small canyon, drains NE; asc. 30 ft. over a NW. slope.
- 38.80 Spur, slopes ENE; desc. 40 ft. over a SE. slope.
- 42.00 Wash, 25 lks. wide, drains NE; asc. 60 ft. over a NW. slope.
- 45.00 Top of ascent.
- 47.50 Desc. 40 ft. over a SE. slope.
- 49.50 Wash, 20 lks. wide, drains NE; asc. 50 ft. over a NW. slope.
- 52.50 Top of ascent; thence along a broken E. slope.
- 55.20 Small ravine, drains NE.
- 59.90 Small ravine, drains NE.
- 68.84 The 14 Mile Cor., monumented by a sandstone, 18 x 16 x 4 ins., firmly set in a mound of stone and marked M on E. face, IZ on W. face, 2WL on S. edge; other marks not legible.

At the corner point

Set an iron post, 30 ins. long, 2 $\frac{1}{2}$  ins. diam., 20 ins. in the ground to solid rock and in a mound of stone to top, with brass cap mkd.

14 M  
 ARIZ | N M  
 ↓  
 1875  
 1951

from which

A pinon, 12 ins. diam., bears S. 11° E., 37 lks. dist., mkd. 14M NM BT.

A juniper, 10 ins. diam., bears S. 87 $\frac{1}{2}$ ° W., 22 lks. dist., mkd. 14M ARIZ BT.

Land, rolling, broken, and hilly.

Soil, sandy clay and rocky.

Timber, juniper and pinon; undergrowth, sage.

## Dependent Resurvey, Portion of Ariz.- N. M. Bdy.

Chains	15th Mile
	S. 0° 09' E., on the 15th mile.
	Along A broken E. slope, through pinon and juniper.
1.70	Wash, 30 lks. wide, in ravine, drains NE.
3.50	Spur, slopes E; desc. 190 ft. over a rocky S. slope.
12.90	Wash, 15 lks. wide, drains E.
14.10	Asc. 280 ft. over a N. slope.
25.80	Foot of a sandstone ledge, bears E. and W.
33.20	Spur, slopes E.
34.00	Desc. 225 ft. over a bluff which bears E. and W.
41.91	True point for the 14½ Mile Cor., at proportionate dist., falls on solid rock top of a 40 ft. cliff which faces S; impracticable to set monument.
43.21	Set an iron post, 3 ft. long, 1 in. diam., 16 ins. in the ground to solid rock and in a mound of stone to top, for Witness 14½ Mile Cor. monument, with brass cap mkd.
	WC 14½M ↑ ARIZ   N M 1875 1951
	Desc. 140 ft. over a S. slope.
54.50	Head of a ravine, drains E; asc. 180 ft. over precipitous N. slope.
62.20	Top of ascent; thence over rolling and broken E. slope.
71.00	Desc. 120 ft. over a bluff which bears NW. and SE.
83.82	The 15 Mile Cor., monumented by a cedar post, in an old mound of stone. There is no marked stone, however this position agrees very closely with a connection made to the 15 Mile Corner by Allison L. Kroeger, U. S. Mineral Surveyor in 1921, in the survey of Mineral Survey No. 1866, New Mexico and 3762 Arizona.
	At the corner point
	Set an iron post, 30 ins. long, 2½ ins. diam., 30 ins. in the ground, with brass cap mkd.
	15 M ARIZ   N M 1875 1951
	from which
	A pinon, 12 ins. diam., bears S. 45¼° E., 100 lks. dist., mkd. 15M NM BT.
	A pinon, 4 ins. diam., bears S. 54½° W., 40 lks. dist., mkd. BT.
	Raise a mound of stone, 2½ ft. base, 2 ft. high, S. of cor.

BOOK

## Dependent Resurvey, Portion of Ariz.- N. M. Bdy.

Chains

Land, broken and hilly.  
Soil, sandy clay and rocky.  
Timber, pinon and juniper; undergrowth, sage.

## 16th Mile

S. 0° 06' E., on the 16th mile.

Along a broken W. slope, through pinon and juniper.

- 4.20 Head of a wash, drains W.  
7.00 Desc. 75 ft. over a SW. slope.  
15.30 Wash, 70 lks. wide, drains SE. in small canyon; asc. 50 ft. over a N. slope.  
16.00 Top of ascent; thence along a broken E. slope.  
21.30 Wash, 12 lks. wide, drains E.  
37.20 Wash, 60 lks. wide, drains E. in small canyon.  
38.99 Point for the 15½ Mile Cor., at proportionate dist.

Set an iron post, 3 ft. long, 1 in. diam., 6 ins. in the ground to solid rock and in a mound of stone to top, with brass cap mkd.

15½M  
ARIZ | N M  
1875  
1951

Bury a sandstone, 8 x 6 x 2 ins., mkd. X, at base of iron post.

- 54.00 Desc. 60 ft. over a SE. slope.  
64.30 Wash, 18 lks. wide, drains E; asc. 50 ft. over a N. slope.  
68.00 A rocky spur, slopes E; desc. 60 ft.  
76.90 Wash, 30 lks. wide, drains E.  
77.98 True point for the 16 Mile Cor., at proportionate dist.

Set an iron post, 30 ins. long, 2½ ins. diam., 27 ins. in the ground, with brass cap mkd.

16 M  
ARIZ | N M  
1875  
1951

from which

A juniper, 14 ins. diam., bears N. 45¼° E., 71 lks. dist., mkd. 16M NM BT.

A juniper, 16 ins. diam., bears S. 83 3/4° W., 167 lks. dist., mkd. 16M ARIZ BT.

Raise a mound of stone, 2½ ft. base, 2 ft. high, S. of cor.

Land, hilly and broken.  
Soil, sandy clay and rocky.  
Timber, juniper and pinon; undergrowth, sage.

## Dependent Resurvey, Portion of Ariz.- N. M. Bdy.

Chains

17th Mile

S. 0° 06' E., on the 17th mile.

Asc. 200 ft. over broken, precipitous N. slope.

- 6.79 The Witness 16 Mile Cor., monumented by a sandstone, 16 x 14 x 4 ins., marked X on top, WC on W., 16 on N., NM on E., and 32 WL on S. face, in a mound of stone. This corner now becomes an Angle Point in the 17th mile.

At the corner point

Set an iron post, 30 ins. long, 2½ ins. diam., 12 ins. in the ground to solid rock and in a mound of stone to top, with brass cap mkd.

AP  
 ARIZ | N M  
 1875  
 1951

This corner is on top of bluff which faces NW.

S. 0° 09' W., beginning new measurement, over rolling land.

- 5.20 Desc. 45 ft. over broken E. slope.
- 15.60 Small ravine, drains ENE; continue over broken E. slope.
- 23.10 Desc. 130 ft. over a S. slope.
- 31.99 True point for the 16½ Mile Cor., at proportionate dist., falls on edge of a bluff, 15 ft. high, where it is impracticable to set a monument.
- 26.13 The closing corner of Ts. 29 and 30 N., R. 21 W., N. M. P. M.
- 32.39 Set an iron post, 3 ft. long, 1 in. diam., 3 ins. in the ground to solid rock and in a mound of stone to top, for Witness 16½ Mile Cor. monument, with brass cap mkd.

WC  
 16½ M  
 ↑  
 ARIZ | N M  
 1875  
 1951

Bury a sandstone, 8 x 8 x 2 ins., mkd. X, at base of iron post.

- 36.00 Wash, 60 lks. wide, drains E; asc. 80 ft. over a N. slope.
- 41.50 A spur, slopes E; desc. 150 ft. over a broken SE. slope.
- 50.75 A bladed road, bears N. of E. and W.
- 55.20 Trail road, bears E. and W.
- 56.30 Center of a ravine, drains E; asc. 45 ft. over a N. slope.
- 60.70 Top of ascent; desc. 45 ft. over a SE. slope.
- 67.30 Wash, 12 lks. wide, drains NE; asc. 60 ft. over a NW. slope.
- 70.74 The 17 Mile Cor., monumented by a sandstone, 24 x 18 x 3 ins., firmly set in a mound of stone, and marked ARIZ on W. face; other marks not legible.

At the corner point

## Dependent Resurvey, Portion of Ariz.- N. M. Bdy.

Chains

Set an iron post, 30 ins. long,  $2\frac{1}{2}$  ins. diam., over a X marked on sandstone ledge and in a mound of stone to top, with brass cap mkd.

17 M

ARIZ | N M

1875

1951

Bury the old corner stone alongside the iron post.

Land, broken and hilly.

Soil, sandy clay and rocky.

Timber, scattered juniper; undergrowth, sage.

## 18th Mile

S.  $0^{\circ} 01'$  W., on the 18th mile.

Along a rolling E. slope, through very scattering timber.

18.60 Wash, 10 lks. wide, drains E.

21.60 Asc. 165 ft. over a NE. slope.

30.50 Top of ascent; thence along a rolling E. slope.

40.56 Point for the  $17\frac{1}{2}$  Mile Cor., at proportionate dist.

Set an iron post, 3 ft. long, 1 in. diam., 30 ins. in the ground, with brass cap mkd.

 $17\frac{1}{2}$ M

ARIZ | N M

1875

1951

from which

A juniper, 14 ins. diam., bears N.  $51\frac{1}{2}^{\circ}$  E., 44 lks. dist., mkd.  $17\frac{1}{2}$ M NM BT.

A juniper, 8 ins. diam., bears N.  $30\frac{1}{2}^{\circ}$  W., 73 lks. dist., mkd.  $17\frac{1}{2}$ M ARIZ BT.

46.50 Desc. 70 ft. over a SE. slope.

49.50 Bottom of ravine, drains E; asc. 40 ft. over broken NE. slope.

57.60 A spur, slopes E; desc. 100 ft. over steep SE. slope.

62.30 Foot of steep descent; desc. 140 ft. over rolling and broken SE. slope to the cor.

67.60 Trail road, bears WNW. and ESE.

79.90 Wash, 12 lks. wide, drains SE.

81.12 The 18 Mile Cor., monumented by a sandstone, 24 x 16 x 4 ins., firmly set in a mound of stone, and marked NM on E. 32 WL on S., and ARIZ on W. face; marks on N. edge have been broken off.

At the corner point

Set an iron post, 30 ins. long,  $2\frac{1}{2}$  ins. diam., 28 ins. in the ground, with brass cap mkd.

## Dependent Resurvey, Portion of Ariz.- N. M. Bdy.

Chains	
	18 M ARIZ   N M 1875 1951
	raise a mound of stone, 3 ft. base, $2\frac{1}{2}$ ft. high, S. of cor., and bury the old corner stone alongside the iron post.  This corner is on a small spur which slopes SE.  Land, hilly and broken. Soil, sandy clay. Timber, pinon and juniper; undergrowth, sage.
	19th Mile
	S. $0^{\circ} 04'$ W., on the 19th mile.  Desc. 125 ft. over a SW. slope, through scattering timber.
4.30	A creek, clear running water, 20 lks. wide, course E; asc. 125 ft. over broken NE. slope.
6.90	Wash, 10 lks. wide, with trickle of water, course NE.
11.90	Top of ascent; desc. 57 ft. over a S. slope.
16.80	Foot of descent; thence along a rolling E. slope.
25.60	Small wash, drains E.
32.15	Desc. 50 ft. over a SE. slope.
34.75	Bottom of ravine, with small stream, course NE; asc. 50 ft. over a NW. slope.
37.10	Top of ascent, bears NE. and SW.
39.60	Point for the $18\frac{1}{2}$ Mile Cor., at proportionate dist.  Set an iron post, 3 ft. long, 1 in. diam., 30 ins. in the ground, and in a mound of stone to top, with brass cap mkd.
	$18\frac{1}{2}$ M ARIZ   N M 1875 1951
	from which  A juniper, 12 ins. diam., bears N. $26^{\circ}$ E., 9 lks. dist., mkd. $18\frac{1}{2}$ M NM BT.  A juniper, 8 ins. diam., bears N. $87\frac{1}{4}^{\circ}$ W., 64 lks. dist., mkd. $18\frac{1}{2}$ M ARIZ BT.  Gradually ascend 90 ft. over rolling and broken NE. slope.
67.10	Trail road, bears E. and W.
69.80	Trail road, bears NE. and SW.
71.20	Top of ascent; desc. 20 ft. over a SE. slope to corner.
79.20	The 19 Mile Cor., monumented by a properly marked porphyry stone, 24 x 14 x 9 ins., firmly set in a mound of stone.

## Dependent Resurvey, Portion of Ariz. - N. M. Bdy.

## Chains

At the corner point

Set an iron post, 30 ins. long,  $2\frac{1}{2}$  ins. diam., 27 ins. in the ground, with brass cap mkd.

19 M

ARIZ | N M

1875

1951

from which

A juniper, 14 ins. diam., bears S.  $35^{\circ}$  E., 70 lks. dist., mkd. 19M NM BT.

A juniper, 10 ins. diam., bears S.  $43^{\circ}$  W., 97 lks. dist., mkd. 19M ARIZ BT.

Raise a mound of stone,  $2\frac{1}{2}$  ft. base, 2 ft. high, S. of cor., and bury the old corner stone alongside the iron post.

Land, hilly and broken.

Soil, sandy clay.

Timber, pinon and juniper; undergrowth, sage.

## 20th Mile

S.  $0^{\circ} 11'$  E., on the 20th mile.

Over rolling land, through pinon and juniper.

11.90 Wash, 25 lks. wide, drains SSE.

28.30 Wash, 10 lks. wide, drains E.

33.30 Asc. 40 ft. over a NE. alope.

38.80 Top of a small hill; desc. 20 ft. over a S. slope.

39.88 Point for the  $19\frac{1}{2}$  Mile Cor., at proportionate dist.

Set an iron post, 3 ft. long, 1 in. diam., 30 ins. in the ground, with brass cap mkd.

$19\frac{1}{2}$ M

ARIZ | N M

1875

1951

from which

A juniper, 10 ins. diam., bears S.  $72\frac{1}{4}^{\circ}$  E., 193 lks. dist., mkd.  $19\frac{1}{2}$ M NM BT.

A juniper, 12 ins. diam., bears S.  $75\frac{1}{2}^{\circ}$  W., 136 lks. dist., mkd.  $19\frac{1}{2}$ M ARIZ BT.

Desc. 90 ft. over a rolling SE. slope.

42.45 Trail road, bears E. and W.

79.76 The 20 Mile Cor., monumented by a properly marked porphyry stone, 18 x 14 x 7 ins., firmly set in a mound of stone.

At the corner point

Set an iron post, 30 ins. long,  $2\frac{1}{2}$  ins. diam., 27 ins. in the ground, with brass cap mkd.

## Dependent Resurvey, Portion of Ariz.- N. M. Bdy.

Chains

20 M

ARIZ | N M

1875

1951

raise a mound of stone,  $2\frac{1}{2}$  ft. base, 2 ft. high, S. of cor., and bury the old corner stone alongside the iron post.

Land, rolling.

Soil, sandy clay.

Timber, scattered juniper and pinon; undergrowth; sage.

21st Mile

S.  $0^{\circ} 07' W.$ , on the 21st mile.

Gradually desc. 80 ft. over rolling S. slope.

26.00 Trail road, bears NE. and SW.

38.50 Trail road, bears E. and W.

39.90 Point for the  $20\frac{1}{2}$  Mile Cor., at proportionate dist.

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

 $20\frac{1}{2}M$ 

ARIZ | N M

1875

1951

from which

Northeast corner of a rock house, bears S.  $67\frac{3}{4}^{\circ} W.$ , 283 lks. dist.

South edge of door in a hogan, bears N.  $40\frac{3}{4}^{\circ} W.$ , 135 lks. dist.

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

40.60 Trail road, bears E. and W; gradually desc. 70 ft. over SE. slope.

58.00 Wash, 5 lks. wide, drains NE; asc. 60 ft. over a NW. slope.

63.20 Top of ascent; thence over rolling land.

70.00 Wash, 15 lks. wide, drains ENE; asc. 30 ft. over gradual NW. slope.

75.80 Asc. 50 ft. over steep NW. slope.

79.80 Point for the 21 Mile Cor., at proportionate dist., at foot of ledge on NW. slope of Horse Mesa.

Set an iron post, 30 ins. long,  $2\frac{1}{2}$  ins. diam., 6 ins. in the ground, to solid rock and in a mound of stone to top, with brass cap mkd.

21 M

ARIZ | N M

1875

1951

Land, rolling and broken.

## Dependent Resurvey, Portion of Ariz.- N. M. Bdy.

Chains

Soil, sandy clay.  
 Timber, scattering juniper and pinon; undergrowth, sage.

## 22nd Mile

S. 0° 07' W., on the 22nd mile.

Asc. 75 ft. over rim of mesa.

0.35 Rim of Horse Mesa, bears NE. and SW; thence over rolling top, gradually asc. 30 ft.

9.10 Top of ascent; desc. 50 ft. over gradual S. slope.

21.80 Desc. 240 ft. over broken S. slope of Horse Mesa.

27.10 The Witness 21 Mile cor., monumented by a sandstone, 14 x 14 x 4 ins., mkd. NM WC on E. face, in a mound of stone.

At the corner point

Set an iron post, 30 ins. long, 2½ ins. diam., over a X marked on solid surface rock and in a mound of stone to top, for Angle Point monument, with brass cap mkd.

AP  
 ARIZ | N M  
 1875  
 1951

This corner is near the foot of the mesa.

S. 0° 05' W., beginning new measurement.

Over rolling east slope.

4.90 Wash, 10 lks. wide, drains E.

12.83 Point for the 21½ Mile Cor., at proportionate dist.

Set an iron post, 3 ft. long, 1 in. diam., 30 ins. in the ground, with brass cap mkd.

21½ M  
 ARIZ | N M  
 1875  
 1951

raise a mound of stone, 3 ft. base, 2½ ft. high, S. of cor.

16.75 Trail road, bears E. and NW.

27.20 Wash, 70 lks. wide, drains E; asc. 55 ft. over a N. slope.

31.60 Top of ascent; desc. 45 ft. over a SE. slope to Red Rock Wash.

39.73 Set an iron post, 30 ins. long, 2½ ins. diam., 27 ins. in the ground, for Witness Point monument, with brass cap mkd.

22 M  
 ARIZ | N M  
 ↓  
 W P  
 1875  
 1951

## Dependent Resurvey, Portion of Ariz.- N. M. Bdy.

Chains	raise a mound of stone, $2\frac{1}{2}$ ft. base, 2 ft. high, S. of cor.
40.25	Left bank of Red Rock Wash, bears NE. and SW.
52.80	Point for the 22 Mile Cor., at proportionate dist., falls in Red Rock Wash; impracticable to set monument.
	Land, N. $\frac{1}{2}$ mile hilly and broken; S. $\frac{1}{2}$ rolling and broken. Soil, sandy clay. Timber, scattering juniper and pinon in N. $\frac{1}{2}$ mile; undergrowth, sage.
	23rd Mile
	S. $0^{\circ} 05'$ W., on the 23rd mile.
	Across sandy bottom of Red Rock Wash.
8.80	Trail road, bears E. and W.
9.00	Record distance to the original Witness 22 Mile Cor., point falls in Red Rock Wash and there is no evidence of the corner.
14.60	Right bank of Red Rock Wash, bears NE. and SW.
15.30	Set an iron post, 30 ins. long, $2\frac{1}{2}$ ins. diam., 27 ins. in the ground, for Witness Point monument, with brass cap mkd.
	WP 22 M ↑ ARIZ   N M 1875 1951
	raise a mound of stone, 3 ft. base, $2\frac{1}{2}$ ft. high, S. of cor.
34.50	Top of a small hill, 110 ft. above wash; desc. 75 ft. over SE. slope.
35.77	The closing corner of Ts. 28 and 29 N.; R. 21 W., N. M. P. M.
39.97	Point for the $22\frac{1}{2}$ Mile Cor., at proportionate dist.
	Set an iron post, 3 ft. long, 1 in. diam., 30 ins. in the ground, with brass cap mkd.
	22 $\frac{1}{2}$ M ARIZ   N M 1875 1951
	dig pits, 18 x 18 x 24 ins., N. and S. of post, 3 ft. dist.
	Asc. 30 ft. over a N. slope.
50.60	A sharp spur, slopes W; desc. 35 ft. over a S. slope.
55.50	Foot of descent; asc. 45 ft. over gradual NW. slope.
79.94	Point for the 23 Mile Cor., at proportionate dist; there is no evidence of the original corner.
	Set an iron post, 30 ins. long, $2\frac{1}{2}$ ins. diam., 6 ins. in the ground to solid rock and in a mound of stone to top, with brass cap mkd.
	23 M ARIZ   N M 1875 1951

## Dependent Resurvey, Portion of Ariz.- N. M. Bdy.

Chains

Land, rolling and broken.  
Soil, sandy clay.  
No timber; undergrowth, sage.

## 24th Mile

S.  $0^{\circ} 05'$  W., on the 24th mile, over rolling land.

12.50 Wash, 12 lks. wide, drains NNW; asc. 100 ft. over rolling NW. slope.

39.97 Point for the  $23\frac{1}{2}$  Mile Cor., at proportionate dist.

Set an iron post, 3 ft. long, 1 in. diam., 30 ins. in the ground, with brass cap mkd.

$23\frac{1}{2}$ M

ARIZ | N M

1875  
1951

raise a mound of stone, 3 ft. base,  $2\frac{1}{2}$  ft. high, S. of cor.

Continue over gentle NW. slope.

55.00 Change to a gently rolling W. slope.

79.94 Point for the 24 Mile Cor., at proportionate dist; there is no evidence of the original corner.

Set an iron post, 30 ins. long,  $2\frac{1}{2}$  ins. diam., 27 ins. in the ground, with brass cap mkd.

24 M

ARIZ | N M

1875  
1951

raise a mound of stone, 3 ft. base,  $2\frac{1}{2}$  ft. high, S. of cor.

Land, rolling.  
Soil, sandy clay.  
No timber; undergrowth, sage.

## 25th Mile

S.  $0^{\circ} 05'$  W., on the 25th mile.

Over rolling land, through sage.

2.10 Trail road, bears E. and W.

11.50 Trail road, bears NE. and SW.

19.65 Closing corner of Ts. 37 and 38 N., R. 31 E., G. & S. R. M.

20.40 Small ravine, drains W.

31.80 Trail road, bears NE. and SW.

39.97 Point for the  $24\frac{1}{2}$  Mile Cor., at proportionate dist.

Set an iron post, 3 ft. long, 1 in. diam., 30 ins. in the ground, with brass cap mkd.

## Dependent Resurvey, Portion of Ariz.- N. M. Bdy.

Chains

24½M

ARIZ | N M

1875

1951

raise a mound of stone, 2½ ft. base, 2 ft. high, S. of cor.

47.00 Trail road, bears NE. and SW.

79.94 Point for the 25 Mile Cor., at proportionate dist; there is no evidence of the original corner.

Set an iron post, 30 ins. long, 2½ ins. diam., 27 ins. in the ground, with brass cap mkd.

25 M

ARIZ | N M

1875

1951

dig pits, 18 x 18 x 24 ins., N. and S. of post, 3 ft. dist.

Land, rolling.

Soil, sandy clay.

No timber; undergrowth, sage.

26th Mile

S. 0° 05' W., on the 26th mile.

Over gently rolling NW. slope.

39.97 Point for the 25½ Mile Cor., at proportionate dist.

Set an iron post, 3 ft. long, 1 in. diam., 30 ins. in the ground, with brass cap mkd.

25½M

ARIZ | N M

1875

1951

dig pits, 24 x 24 x 24 ins., N. and S. of post, 3 ft. dist.

65.00 Change to a gentle W. slope.

79.94 Point for the 26 Mile Cor., at proportionate dist; there is no evidence of the original corner.

Set an iron post, 30 ins. long, 2½ ins. diam., 27 ins. in the ground, with brass cap mkd.

26 M

ARIZ | N.M

1875

1951

dig pits, 18 x 18 x 24 ins., N. and S. of post, 3 ft. dist.

Land, gently rolling.

Soil, sandy clay.

No timber; undergrowth, sage.

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## Dependent Resurvey, Portion of Ariz.- N. M. Bdy.

Chains	
	27th Mile
	S. 0° 05' W., on the 27th Mile.
	Along a gently rolling W. slope, through sage.
39.97	Point for the 26½ Mile Cor., at proportionate dist.
	Set an iron post, 3 ft. long, 1 in. diam., 30 ins. in the ground, with brass cap mkd.
	26½M
	ARIZ   N M
	1875 1951
	dig pits, 24 x 24 x 24 ins., N. and S. of post, 3 ft. dist.
59.90	Trail road, bears NE. and SW.
79.94	The 27 Mile Cor., monumented by a broken sandstone, 16 x 14 x 4 ins., legibly marked WL and 27 on different pieces, in a mound of stone.
	At the corner point
	Set an iron post, 30 ins. long, 2½ ins. diam., 27 ins. in the ground, with brass cap mkd.
	27 M
	ARIZ   N M
	1875 1951
	raise a mound of stone, 3 ft. base, 2½ ft. high, S. of corner.
	Land, rolling.
	Soil, sandy clay.
	No timber; undergrowth, sage.
	28th Mile
	South, on the 28th mile.
	Over gently rolling land, through sage.
15.25	Graded road, bears ESE. to Shiprock, N. M., and WNW. to Red Rock, Arizona.
17.10	Telephone line, bears E. and W.
39.99	Point for the 27½ Mile Cor., at proportionate dist.
	Set an iron post, 3 ft. long, 1 in. diam., 30 ins. in the ground, with brass cap mkd.
	27½M
	ARIZ   N M
	1875 1951
	dig pits, 18 x 18 x 16 ins., N. and S. of corner, 3 ft. dist.
51.50	Wash, 50 lks. wide, drains W.

## Dependent Resurvey, Portion of Ariz. - N. M. Bdy.

Chains

79.98

Point for the 28 Mile Cor., at proportionate dist; there is no evidence of the original corner.

Set an iron post, 30 ins. long,  $2\frac{1}{2}$  ins. diam., 27 ins. in the ground, with brass cap mkd.

28 M

ARIZ | N M

1875

1951

dig pits, 18 x 18 x 18 ins., N. and S. of corner, 3 ft. dist.

Land, rolling.

Soil, sandy clay.

No timber; undergrowth, sage.

## 29th Mile

South, on the 29th mile.

Gradually ascend 70 ft. over rolling NW. slope, through sage.

20.00 The Thumb, a rock peak about 200 ft. high, about 4 chains E. of line.

25.00 Top of ascent; gradually desc. 35 ft. over rolling SW. slope.

39.25 Trail road, bears WNW. and ESE.

39.99 Point for the  $28\frac{1}{2}$  Mile Cor., at proportionate dist.

Set an iron post, 3 ft. long, 1 in. diam., 30 ins. in the ground, with brass cap mkd.

 $28\frac{1}{2}$ M

ARIZ | N M

1875

1951

dig pits, 18 x 18 x 12 ins., N. and S. of corner, 3 ft. dist.

Thence along a gently rolling W. slope.

53.00 Trail road, bears E. and W.

55.00 Wash, 10 lks. wide, drains W.

77.48 Set an iron post, 30 ins. long,  $2\frac{1}{2}$  ins. diam., 28 ins. in the ground, for Witness 29 Mile Cor. monument, with brass cap mkd.

29 M

ARIZ | N M

W | C  
↓

1875

1951

raise a mound of stone, 3 ft. base,  $2\frac{1}{2}$  ft. high, S. of cor.

79.98

True point for the 29 Mile Cor., at proportionate dist., falls in N. edge of a wash, 30 lks. wide, which drains W. for about 3 chs. to a larger wash which drains NW.

BOOK 4400  
Dependent Resurvey, Portion of Ariz. - N. M. Bdy.

## Chains

Land, gently rolling.  
Soil, sandy clay.  
No timber; undergrowth, sage.

## 30th Mile

South, on the 30th mile.

Over gently rolling land, through sage.

1.00 Enter a wash, 1 ch. wide, drains NW. from S.

9.00 Leave wash, drains N. from SSW.

23.00 Wash, 1 ch. wide, drains NNW.

38.80 Trail road, bears NW. and SE.

39.99 Point for the 29 $\frac{1}{2}$  Mile Cor., at proportionate dist.

Set an iron post, 3 ft. long, 1 in. diam., 30 ins. in the ground, with brass cap mkd.

29 $\frac{1}{2}$ M

ARIZ | N M

1875  
1951

dig pits, 18 x 18 x 12 ins., N. and S. of corner, 3 ft. dist.

51.55 Trail road, bears E. and W.

71.40 Trail road, bears NW. and SE.

79.98 Point for the 30 Mile Cor., at proportionate dist; the original cor. stone, a properly marked sandstone, 20 x 14 x 3 ins., was found lying loose on the ground, 39 lks. South and 2.32 chs. East of this point.

Set an iron post, 30 ins. long, 2 $\frac{1}{2}$  ins. diam., 27 ins. in the ground, with brass cap mkd.

30 M

ARIZ | N M

1875  
1951

raise a mound of stone, 3 ft. base, 2 $\frac{1}{2}$  ft. high, S. of cor., and bury the old corner stone alongside the iron post.

Land, rolling.  
Soil, sandy clay.  
No timber; undergrowth, sage.

## 31st Mile

South, on the 31st mile.

Over gently rolling land, through sage.

2.40 Trail road, bears NW. and SE.

19.97 The closing corner of Ts. 36 and 37 N., R. 31 E., G. & S. R. M,

22.10 Road, bears NNW. and SSE.

30.90 Trail road, bears NW. and SE.

## Dependent Resurvey, Portion of Ariz.- N. M. Bdy.

## Chains

39.99 Point for the  $30\frac{1}{2}$  Mile Cor., at proportionate dist.  
Set an iron post, 3 ft. long, 1 in. diam., 30 ins. in the ground, with brass cap mkd.

$30\frac{1}{2}$ M

ARIZ | N M

1875  
1951

dig pits, 18 x 18 x 12 ins., N. and S. of corner, 3 ft. dist.

79.98 Point for the 31 Mile Cor., at proportionate dist; there is no evidence of the original corner.

Set an iron post, 30 ins. long,  $2\frac{1}{2}$  ins. diam., 27 ins. in the ground, with brass cap mkd.

31 M

ARIZ | N M

1875  
1951

raise a mound of stone, 3 ft. base,  $2\frac{1}{2}$  ft. high, S. of corner.

Land, rolling.

Soil, sandy clay.

No timber; undergrowth, sage.

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32nd Mile

South, on the 32nd mile.

Over gently rolling land, through sage.

8.80 Trail road, bears NE. and SW.

22.70 Wash, 25 lks. wide, drains E.

27.70 Trail road, bears E. and W.

28.60 Trail road, bears NE. and SW.

39.99 Point for the  $31\frac{1}{2}$  Mile Cor., at proportionate dist.

Set an iron post, 3 ft. long, 1 in. diam., 30 ins. in the ground, with brass cap mkd.

$31\frac{1}{2}$ M

ARIZ | N M

1875  
1951

raise a mound of stone, 3 ft. base, 2 ft. high, S. of corner.

62.40 Wash, 40 lks. wide, drains NE; gradually asc. 60 ft. over rolling NW. slope.

67.50 Trail road, bears E. and NW.

79.98. Point for the 32 Mile Cor., at proportionate dist; there is no evidence of the original corner.

## BOOK 4400

## Dependent Resurvey, Portion of Ariz.- N. M. Bdy.

Chains

Set an iron post, 30 ins. long,  $2\frac{1}{2}$  ins. diam., 27 ins. in the ground, with brass cap mkd.

32 M

ARIZ | N M

1875

1951

raise a mound of stone, 3 ft. base,  $2\frac{1}{2}$  ft. high, S. of corner.

Land, rolling.

Soil, sandy clay.

No timber; undergrowth, sage.

33rd Mile

South, on the 33rd mile,

Over gently rolling land, through sage.

39.99 Point for the  $32\frac{1}{2}$  Mile Cor., at proportionate dist.

Set an iron post, 3 ft. long, 1 in. diam., 30 ins. in the ground, with brass cap mkd.

 $32\frac{1}{2}$ M

ARIZ | N M

1875

1951

raise a mound of stone,  $3\frac{1}{2}$  ft. base, 3 ft. high, S. of corner.

43.40 Road, bears E. and W.

55.25 Road, bears NNW. and SSE.

61.90 Road, bears NE. and SW; enter scattering timber.

68.40 Small ravine, drains W.

78.20 Wash, 40 lks. wide, drains NW.

79.98 The 33 Mile Cor., monumented by a sandstone, 16 x 14 x 6 ins., properly marked NM on E., 32 WL on S., ARIZ on W., and 33 on the N. face, in a mound. of stone.

At the corner point

Set an iron post, 30 ins. long,  $2\frac{1}{2}$  ins. diam., 27 ins. in the ground, with brass cap mkd.

33 M

ARIZ | N M

1875

1951

from which

A pinon, 12 ins. diam., bears S.  $64\frac{1}{2}^{\circ}$  E., 283 lks. dist., mkd. 33M NM BT.

A juniper, 4 ins. diam., bears S.  $53\frac{3}{4}^{\circ}$  W., 156 lks. dist., mkd. 33M ARIZ BT.

## Dependent Resurvey, Portion of Ariz.- N. M. Bdy.

Chains

Raise a mound of stone, 3 ft. base,  $2\frac{1}{2}$  ft. high, S. of corner,  
and bury the old corner stone alongside the iron post.

Land, gently rolling.

Soil, sandy clay.

Timber, scattering juniper and pinon in S.  $\frac{1}{2}$  mile; undergrowth, sage



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BOOK 4400

CERTIFICATE OF SURVEYOR

I, Ty White, HEREBY CERTIFY upon honor that, in pursuance of special instructions bearing date of the 5th 18th day of April, 1951, received from the district cadastral engineer for instructions dated April 16, 1951, I have surveyed dependently resurveyed 33 miles of Arizona - New Mexico boundary

of the Meridian, in the State of, which are represented in the foregoing field notes as having been executed by me and under my 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.

Albuquerque, New Mexico.

April 25, 1952.

Ty White

Ty White

Cadastral Engineer

CERTIFICATE OF APPROVAL

Bureau of Land Management

Office of Supervisor of Surveys

Washington, D. C.

MAY 11 1953

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The foregoing field notes of the survey of dependent resurvey of 33 miles of the Arizona - New Mexico boundary

executed by Ty White

under special instructions dated, and assignment instructions dated, 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.

Assistant Chief, Division of Cadastral Engineering

Supervisor of Surveys

Assistant Chief, Division of Cadastral Engineering

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