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3989

Original

4-679  
(April 1933)

BOOK 3989

Book C.

# FIELD NOTES

of the

Resurvey of a portion of the Arizona-Nevada State boundary, from the  
350+1 chain Mile Corner to the 331 Mile Corner, along a portion of  
the West boundary of T. 33 N., R. 16 W., along the West boundaries of Ts.  
34, 35 and 36 N., R. 16 West., and along a portion of the West boundary of  
T. 37 N., R. 16 W.,

Of the Gila and Salt River Meridian,

In the State of Arizona

## EXECUTED BY

William E. Hiester, U. S. Surveyor

and

Walter H. Good, U. S. Surveyor.

Under special instructions dated June 30, 1931, and December 21, 1932,  
for the surveys included under Group No. 169, bearing the approval of the  
Commissioner of the General Land Office under date of Sept. 21, 1931,  
and assignment instructions dated January 14, 1933,  
and March 7, 1933.

Survey commenced February 8, 1933

Survey completed March 24, 1933.

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# INDEX DIAGRAM.

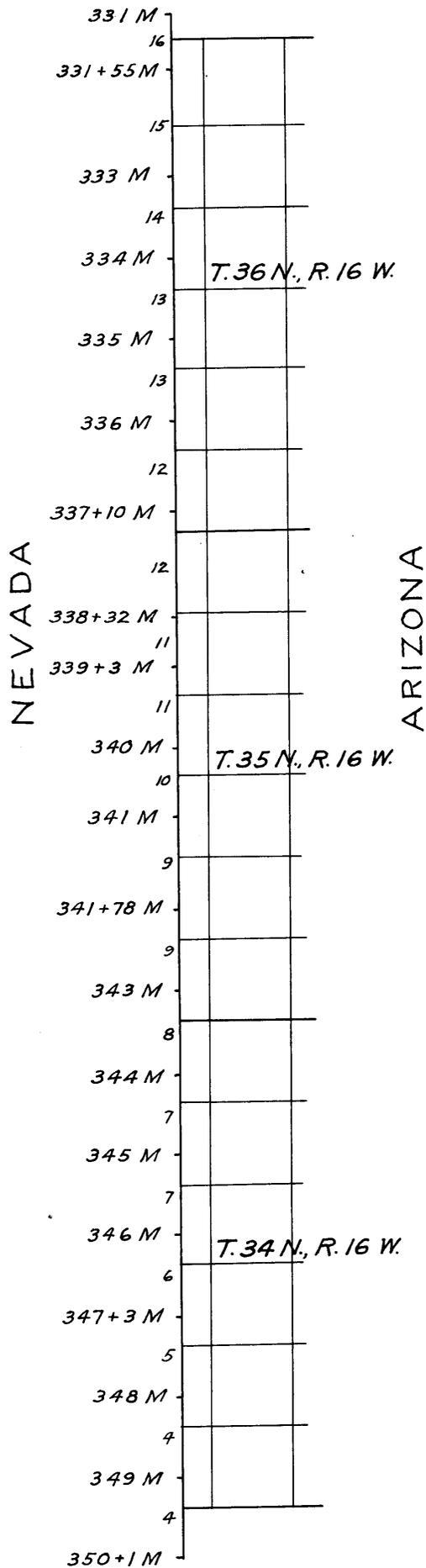
*Township* \_\_\_\_\_, *Range* \_\_\_\_\_

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# INDEX DIAGRAM

State Boundary

BOOK 3989



Chains.

The resurvey of a portion of the Arizona and Nevada State Boundary, was executed by William E. Hiester U.S. Surveyor, with a light mountain transit made by Buff and Buff, Serial No. 19423, constructed in accordance with the standard specifications of the General Land Office. The horizontal circle has a diameter of  $4\frac{1}{2}$  ins. with two opposite verniers reading to single minutes; the vertical circle has a diameter of 4 ins. with one double vernier reading to single minutes. The instrument is equipped with the improved Smith solar attachment: radius of latitude arc  $2\frac{1}{2}$  ins. and of the declination arc  $3\frac{1}{2}$  ins. each with verniers reading to single minutes. The instrument was in good condition, and having been placed in satisfactory adjustment prior to beginning the resurvey, and tested and found free from appreciable error, was approved by the district cadastral engineer January 14, 1933. I examine all the instrumental adjustments before making the field tests hereinbefore recorded.

The direction of all lines were determined by the solar transit method. The measurements were made with a Lallie steel tape 5 ch. in length, graduated every link for the first 100 lks. and the balance at intervals of 10 lks. The tape was tested by comparison with a Lufkin standard and found correct. The measurements were made on the slope and the vertical angle of each interval was ascertained by clinometer in good adjustment; the horizontal equivalents are entered in the field record.

The data furnished with the special instructions gives the geographic position for the SE. cor. of T. 34 N., R. 16 W., as follows: latitude  $36^{\circ}17'41''$  N., and longitude  $113^{\circ}57'49''$  W.

Feb. 2 1933, in camp near the  $\frac{1}{4}$  sec. cor. of secs. 23 and 26, T. 34 N., R. 16 W., at 10h 43m 42s p.m. l.m.t., or 11h 19m 41s p.m., by my watch which reads correct 105th meridian time as determined by Western Union Clock time. I observe Polaris at western elongation, making two sights each with the telescope in direct and reversed positions, and place a tack at the mean point on a peg driven firmly in the ground 10 chs. N.

Feb. 3: I lay off the azimuth of Polaris  $1^{\circ}18'22''$  and make a meridian mark on a second peg to the east of the mean point in the line determined by the observation.

In order to verify the latitude of this station and the reading of my watch, I make a meridian observation of the sun, first setting on the lower limb and noting the transit of the west limb, then, after reversal of the instrument, setting on the upper limb and noting the transit of the east limb as follows:

Mean observed altitude-----	37°13'16"
Reduced latitude-----	36°19'20"
Mean watch time of observation-----	12h49m56s
Watch fast of l.m.t-----	35m59s

Every 30 min. from 8 to 10.30 a.m., and from 1.30 to 4 p.m., I make proper settings on the arcs of the solar attachment and ascertain that the resulting orientation of the instrument, when compared with a meridian established by Polaris observation has a maximum error of less than  $1'30''$ .

I repeat the tests of the arcs daily by noon observation and verify the meridional indications at frequent intervals throughout the survey.

Resurvey of a Portion of the Arizona and Nevada  
State Boundary.

## Chains.

The resurvey of a portion of the Arizona and Nevada State Boundary, was executed by Walter H. Good, U.S. Surveyor, with a light mountain transit made by Buff and Buff, Serial No. 14189, constructed in accordance with the standard specifications of the General Land Office. The horizontal circle has a diameter of  $4\frac{1}{2}$  ins. with two opposite verniers reading to single minutes; the vertical circle has a diameter of 4 ins. with one double vernier reading to single minutes. The instrument is equipped with the improved Smith solar attachment; radius of latitude arc  $2\frac{1}{2}$  ins. and of the declination arc  $3\frac{1}{2}$  ins. each with verniers reading to single minutes. The instrument was in good condition, and having been placed in satisfactory adjustment prior to beginning the resurvey, and tested and found free from appreciable error, was approved by the district cadastral engineer March 10, 1933. I examine all the instrumental adjustments before making the field tests hereinafter recorded.

The direction of all lines were determined by the solar transit method. The measurements were made with a Lallie steel tape 5 chs. in length, graduated every link for the first 100 lks. and the balance at intervals of 10 lks. The tape was tested by comparison with a Lufkin standard and found correct. The measurements were made on the slope and the vertical angle of each interval was ascertained by clinometer in good adjustment; the horizontal equivalents are entered in the field record.

The data furnished with the special instructions gives the geographic position for the SE. cor. of T. 35 N., R. 16 W., as follows: latitude  $36^{\circ}22'54''$  N. and longitude  $113^{\circ}57'49''$  W.

March 10, 1933, in camp near the  $\frac{1}{4}$  sec. cor. of secs. 3 and 34, Tps. 35 and 36 N., R. 16 W., at 8h 21m 36s p.m. l.m.t., or 9h 00m 36s p.m. by my watch which reads correct 105th meridian time as determined by Western Union Clock time. I observe Polaris at western elongation, making two sights each with the telescope in direct and reversed positions, and place a tack at the mean point on a peg driven firmly in the ground 10 chs. N.

March 11: I lay off the azimuth of Polaris  $1^{\circ}18'22''$  and make a meridian mark on a second peg to the east of the mean point in the line determined by the observation.

In order to verify the latitude of this station and the reading of my watch, I make a meridian observation of the sun, first setting on the lower limb and noting the transit of the west limb, then, after reversal of the instrument, setting on the upper limb and noting the transit of the east limb as follows:

Mean observed altitude-----	49°53'20"
Reduced latitude-----	36°28'30"
Mean watch time of observation-----	12h49m45s
Watch fast of l.m.t-----	36m02s

Every 30 min. fro, 7 to 10.30 a.m., and from 1.30 to 4 p.m., I make proper settings on the arcs of the solar attachment and ascertain that the resulting orientation of the instrument when compared with a meridian established by Polaris observation has a maximum error of less than  $1'30''$ .

I repeat the tests of the arcs daily by noon observation and verify the meridional indications at frequent intervals throughout the survey.

## State Boundary.

BOOK 888

Chains.	<p>The Arizona and Nevada State Boundary was originally surveyed in 1870 by Isaac E. James, Astronomer.</p> <p>The following notes describe a resurvey of a portion of the Arizona and Nevada State Boundary, bet. the 330 and 350+ 1 ch. Mile Cor.</p> <hr/> <p>I commence the resurvey at the 350+ 1 ch. Mile Cor. on the Arizona and Nevada State Boundary.</p> <p>North on a random line along the Arizona and Nevada State Boundary, continuing line and measurement.</p>
81.75	A point 1.66 chs. dist., W. of the 349 Mile Cor.
161.21	A point 7.22 chs. dist., W. of the 348 Mile Cor.
237.89	A point 3.36 chs. dist., W. of the 347+ 3.00 chs. Mile Cor.
329.10	A point 3.92 chs. dist., W. of the 346 Mile Cor.
401.90	A point 6.63 chs. dist., W. of the 345 Mile Cor.
479.11	A point 9.30 chs. dist., W. of the 344 Mile Cor.
559.24	A point 11.28 chs. dist., W. of the 343 Mile Cor.
643.20	A point 11.62 chs. dist., W. of the 341+78.00 chs Mile Cor.
720.27	A point 11.71 chs. dist., W. of the 341 Mile Cor.
797.12	A point 12.13 chs. dist., W. of the 340 Mile Cor.
877.57	A point 12.15 chs. dist., W. of the 339+ 3.00 chs. Mile Cor.
928.46	A point 12.25 chs. dist., W. of the 338+ 32.00 chs. Mile Cor.
1030.33	A point 9.67 chs. dist., W. of the 337+ 10.00 chs. Mile Cor.
1110.60	A point 4.90 chs. dist., W. of the 336 Mile Cor.
1191.43	A point 40 lks. E. of the 335 Mile Cor.
1274.56	A point 2.53 chs. dist. E. of the 334 Mile Cor.
1353.52	A point 1.40 chs. dist., E. of the 333 Mile Cor.
1457.73	A point 2.95 chs. dist., E. of the 331+ 55.00 chs. Mile Cor.
1513.18	A point 2.61 chs. dist., E. of the 331 Mile Cor. hereinafter described.
	<p>I return to the 350+ 1 ch. Mile Cor. which is a limestone, 20x14x12 ins. mkd. A on E. face and N. on W. face, set on top of a mound of stone, 4 ft. base, 3 ft. high.</p> <p>At point for cor,</p>

Resurvey of a Portion of the Arizona and Nevada  
State Boundary.

Chains.	<p>Set an iron post, 3 ft. long, 3 ins. diam., on bedrock, with the original stone deposited at the base, and in a mound of stone to top, for 350+ 1 ch. Mile Cor., with brass cap mkd.</p> <p style="text-align: center;">350 M NEV   ARIZ 1933</p> <p>Thence</p> <p>N.1°10'E., on a true line along the Arizona and Nevada State Boundary,</p> <p>Over rolling land, through scattered desert growth.</p> <p>Descend 59 ft. over NE. slope.</p> <p>4.35 Wash, 5 lks. wide, course E.; asc. 8 ft. over SW. slope.</p> <p>10.80 Spur, slopes SW.; desc. 146 ft. over broken NW. slope.</p> <p>28.45 Wash, 20 lks. wide, course NE.; asc. 38 ft. over SE. slope.</p> <p>35.80 Spur, slopes E.; desc. 80 ft. over NE. slope.</p> <p>46.97 Wash, 10 lks. wide, course E.; continue over broken valley land.</p> <p>60.80 Low spur, slopes SE.</p> <p>75.46 Center of sand wash, 20 lks. wide, course SE.; leave valley, bears N. and S.; asc. 98 ft. over SW. slope.</p> <p>81.77 The 349 Mile Cor., which is a lavastone, 20x14x12 ins. mkd. A on E. face and N. on W. face, loosely set on top of a mound of stone 4 ft. base, 3 ft. high.</p> <p>At point for cor.</p> <p>Set an iron post, 3 ft. long, 3 ins. diam., 14 ins. in the ground to bedrock, with the original stone deposited at the base, and in a mound of stone to top, for 349 Mile Cor. with brass cap mkd.</p> <p style="text-align: center;">349 M NEV   ARIZ 1933</p> <p>Cor. is on top of small knoll. Land, rolling. Soil, sandy; 3rd rate; and rocky; 4th rate. Timber, none; undergrowth, catclaw, joshua and cactus.</p>
24.80	<p>N.4°00'E., on a true line along the Arizona and Nevada State Boundary.</p> <p>Over mountainous land, through scattered desert growth.</p> <p>Ascend 226 ft. over broken SW. slope.</p> <p>Top of ascent; continue over level bench land.</p>

Chains.	
50.16	Leave bench land, bears NE. and SW;; desc. 283 ft. over broken NW. slope.
69.36	Wash, 5 lks. wide, course NE.; asc. 69 ft. over SE. slope.
76.00	Spur, slopes E.; desc. 12 ft. over NE. slope.
78.58	Head of wash, course SE.; asc. 12 ft. over SW. slope.
79.66	The 348 Mile Cor., which is a lava stone, 20x16x12 ins. mkd. ARIZ on E. face, Nev 348 M on W. face, loosely set on top of a mound of stone 4 ft. base, 3 ft. high.
	At point for cor.
	Set an iron post, 3 ft. long, 3 ins. diam., 18 ins. in the ground to bedrock, with the original stone, deposited at the base, and in a mound of stone to top, for 348 Mile Cor., with brass cap mkd.
	348 M   NEV   ARIZ   1933
	Land, mountainous and level. Soil, rocky; 4th rate. Timber, none; undergrowth, joshua, cactus and catclaw.
<hr/>	
	N.2°53'W., on a true line along the Arizona and Nevada State Boundary.
	Over rolling land, through scattered desert growth.
.30	Low spur, slopes SE.; desc. 30 ft. over NE. slope.
1.73	Wash, 5 lks. wide, course SE.; asc. 43 ft. over SW. slope.
9.90	Low spur slopes SE.; desc. 12 ft. over NE. slope.
10.53	Wash, 5 lks. wide, course SE.
11.14	Wash, 50 lks. wide, course SE.
13.95	Wash, 10 lks. wide, course SE.; asc. 34 ft. over SW. slope.
16.70	Spur, slopes SE.; desc. 25 ft. over NE. slope.
18.82	Wash, 15 lks. wide, course SE.; asc. 146 ft. over SW. slope.
46.00	Spur, slopes W.; desc. 13 ft. over N. slope.
46.67	Wash near head, course W.; asc. 165 ft. over broken SW. slope.
57.00	Top of rimrocks, 20 ft. high, bears NW. and SE.
57.50	Spur, slopes SE.; desc. 160 ft. over broken NE. slope.
76.77	The 347+ 3.00 chs. Mile Cor., which is a limestone, 14x14x12 ins. mkd. ARIZ TW 57 on E. face, and NEV 347 M on W. face, loosely set on top of a mound of stone, 3

## Resurvey of a Portion of the Arizona and Nevada

## State Boundary.

Chains.	ft. base, 3 ft. high. At point for cor. Set an iron post, 3 ft. long, 3 ins. diam., 24 ins. in the ground, with the original stone deposited alongside, for 347+ 3.00 chs. Mile Cor. with brass cap mkd.  347 M NEV   ARIZ 1933  raise a mound of stone, 3 ft. base, 3 ft. high, W. of cor.  Land, mountainous. Soil, rocky; 4th rate. Timber, none; undergrowth, joshua, cactus, catclaw and greasewood.
	N.0°21'E., on a true line along the Arizona and Nevada State Boundary.  Over rolling land, through scattered desert growth.  8.00 Low spur, slopes SE. 10.00 Old road, bears NW. and SE. 12.10 Wash, 15 lks. wide, course SE.; asc. 68 ft. over SW. slope. 14.40 Spur, slopes SE.; continue along broken E. slope. 34.70 Wash, 15 lks. wide, course SE.; asc. 18 ft. over SW. slope. 36.80 Low spur, slopes SE.; desc. 11 ft. 40.60 Wash, 5 lks. wide, course SE.; asc. 52 ft. along E. slope. 66.50 Wash, 20 lks. wide, course SE. 67.00 Base of slope. bears NW. and SE.; asc. 327 ft. over steep, rocky SW. slope. 69.80 Spur, slopes SE.; continue ascending. 73.30 Wash 20 lks. wide, course SE. 91.00 Top of rimrocks, 30 ft. high, bears NW. and SE. 91.21 The 346 Mile Cor., which is a lava stone, 20x14x10 ins. mkd. ARIZ on E. face, and NEV 346 M on W. face, loosely set on top of a mound of stone 5 ft. base, 3 ft. high.  At point for cor.  Set an iron post, 3 ft. long, 3 ins. diam., on bedrock, with the original stone deposited at the base, and in a mound of stone to top, for 346 Mile Cor., with brass cap mkd.

Resurvey of a Portion of the Arizona and Nevada  
State Boundary.

7

1933

Chains.

346 M

NEV | ARIZ

1933

Land, mountainous.  
Soil, rocky; 4th rate.  
Timber, none; undergrowth, cactus, joshua, catclaw and  
greasewood.

N.2°08'E., on a true line along the Arizona and Nevada  
State Boundary.

Over rolling bench land, through scattered desert growth.

- 7.90 Descend 56 ft. over NE. slope.
- 23.40 Head of wash, course SE.; ; asc. 107 ft. over SW. slope.
- 38.00 Top of ascent; continue over level land.
- 72.85 The 345 Mile Cor., which is a lava stone, 20x16x12 ins.  
mkd. ARIZ on E. face, and NEV 345 LW 37 on W. face,  
loosely set on top of a mound of stone, 5 ft. base, 3 ft.  
high.

At point for cor.

Set an iron post, 3 ft. long, 3 ins. diam., 6 ins. in  
the ground to bedrock, with the original stone deposit-  
ed at the base, and in a mound of stone to top, for  
345 Mile Cor., with brass cap mkd.

345 M

NEV | ARIZ

1933

Land, rolling and level.  
Soil, rocky; 4th rate.  
Timber, none; undergrowth, cactus, joshua and catclaw.

N.1°59'E., on a true line along the Arizona and Nevada  
State Boundary.

Over mountainous land, through scattered desert growth.

- .20 Top of rimrocks, 30 ft. high, bears NW. and SE.; leave  
bench land; desc. 930 ft. over broken NE. slope.
- 25.31 Drain, course NE.
- 54.50 Low saddle on spur ridge, bears NE. and SW.; continue  
descending.
- 63.95 Drain, course NE.
- 65.96 Wash, 15 lks. wide, course E.; asc. 21 ft. over SE.  
slope.
- 77.26 The 344 Mile Cor., which is a catclaw post, 4 ins. sq.,  
3 ft. long, mks. illegible, loosely set in a mound of  
stone, 5 ft. base, 3 ft. high.

Resurvey of a Portion of the Arizona and Nevada  
State Boundary.

Chains.	<p>At point for cor.</p> <p>Set an iron post, 3 ft. long, 3 ins. diam., 12 ins. in the ground to bedrock, with a lava stone 10x10x10 ins. mkd. X, deposited at the base, and in a mound of stone to top, for 344 Mile Cor., with brass cap mkd.</p> <p style="text-align: center;">344 M NEV   ARIZ 1933</p> <p>Land, mountainous. Soil, rocky; 4th rate. Timber, none; undergrowth, catclaw, cactus, joshua and greasewood.</p>
	<p>N.1°25'E., on a true line along the Arizona and Nevada State Boundary.</p> <p>Over rolling land, through scattered desert growth.</p> <p>Descend 34 ft. over NW. slope.</p> <p>7.50 Old road, bears NW. and SE.</p> <p>16.67 Wash, 10 lks. wide, course NE.</p> <p>39.50 Wash, 10 lks. wide, course NE.</p> <p>42.20 Road, bears E. and W.</p> <p>42.30 Drain, course E.</p> <p>45.30 Road, bears E. and W.</p> <p>50.00 Wash, 10 lks. wide, course NE.</p> <p>53.05 Wash, 10 lks. wide, course E.</p> <p>58.70 Low spur, slopes E.</p> <p>66.13 Drain, course NE.</p> <p>75.40 Wash, 30 lks. wide, course SE.</p> <p>80.15 The 343 Mile Cor., which is a limestone, 14x14x10 ins. mkd. ARIZ LW 37 on E. face, and NEV 343 on W. face. loosely set on top of a mound of stone, 5 ft. base, 3 ft. high.</p> <p>At point for cor.</p> <p>Set an iron post, 3 ft. long, 3 ins. diam., 26 ins. in the ground, with the original stone deposited alongside, for 343 Mile Cor., with brass cap mkd.</p> <p style="text-align: center;">343 M NEV   ARIZ 1933</p> <p style="text-align: right;">raise a mound of stone 5 ft. base, 3 ft. high, W. of cor.</p> <p>Land, rolling.</p>

## State Boundary.

ECON. 8880

Chains.	Soil, sandy; 3rd rate. Timber, none; undergrowth, cactus, catclaw, joshua and greasewood.
	N.0°14'E., on a true line along the Arizona and Nevada State Boundary.
	Over rolling land, through scattered desert growth.
.48	Wash, 10 lks. wide, course SE.
5.00	Wash, 20 lks. wide, course SE.
13.18	Drain, 3 lks. wide, course SE.
47.48	Drain, course SE.
79.98	Drain, course SE.
83.96	The 341 + 78.00 chs. Mile Cor., which is a limestone, 16x10x10 ins. mkd. ARIZ on E. face, and NEV 341+ 78 M LW 37 on W. face, loosely set on top of a mound of stone, 4 ft. base, 3 ft. high.
	At point for cor.
	Set an iron post, 3 ft. long, 3 ins. diam., 26 ins. in the ground, with the original stone deposited alongside, and in a mound of stone to top, for 341 + 78.00 chs. Mile Cor., with brass cap mkd.
	342 M. NEV   ARIZ 1933
	raise a mound of stone 4 ft. base, 3 ft. high, W. of cor.
	Land, rolling. Soil, sandy; 3rd rate. Timber, none; undergrowth, cactus, catclaw, joshua and greasewood.
	N.0°04'E., on a true line along the Arizona and Nevada State Boundary.
	Over rolling land, through scattered desert growth.
7.37	Center of wash, 30 lks. wide, course SW.; asc. 104 ft. over SE. slope.
19.87	Top of ascent; continue over rolling land.
52.00	Drain, course SW.
77.07	The 341 Mile Cor., which is a limestone, 18x16x6 ins. mkd. Ariz 341 M on E. face, and NEV LW 37 on W. face, loosely set on top of a mound of stone 4 ft. base, 3 ft. high.
	At point for cor.

## State Boundary.

Chains.

Set an iron post, 3 ft. long, 3 ins. diam., 6 ins. in the ground to bedrock, with the original stone deposited at the base, and in a mound of stone to top, for 341 Mile Cor., with brass cap. mkd.

341 M

NEV | ARIZ

1933

Land, rolling.

Soil, sandy; 3rd rate.

Timber, none; undergrowth, cactus, joshua, catclaw and greasewood.

N.0°19'E., on a true line along the Arizona and Nevada State Boundary.

Over rolling land, through scattered desert growth.

.40 Spur, slopes SE.; desc. 25 ft. over NW. slope.

20.23 Wash, 12 lks. wide, course SE.; asc. 93 ft. over SW. slope.

44.40 Spur, slopes SW.; desc. 56 ft. over NW. slope.

50.86 Same wash, 10 lks. wide, course SW.; asc. 63 ft. over SE. slope.

71.35 Spur, slopes SW.; desc. 34 ft. over NW. slope.

76.85 The 340 Mile Cor., which is a limestone, 24x20x20 ins. mkd. ARIZ on E. face, and NEV 340+3 M LW 37 on W. face, loosely set on top of a mound of stone, 4 ft. base, 3 ft. high.

At point for cor.

Set an iron post, 3 ft. long, 3 ins. diam., 26 ins. in the ground, with the original stone deposited alongside, for 340 Mile Cor. with brass cap mkd.

340 M

NEV | ARIZ

1933

raise a mound of stone, 4 ft. base, 3 ft. high, W. of cor.

Land, rolling.

Soil, sandy; 3rd rate.

Timber, none; undergrowth cactus, catclaw, joshua and greasewood.

## State Boundary.

ECON 3989

Chains. N.0°01'E., on a true line along the Arizona and Nevada State Boundary.

Over mountainous land, through scattered desert growth.

17.15 Wash, 15 lks. wide; course SW.; asc. 299 ft. over broken SE. slope.

80.45 The 339 + 3.00 chs. Mile Cor., which is a limestone, 24 x18x12 ins. mkd. ARIZONA on E. face, and NEV 339 + 3 on W. face, loosely set on top of a mound of stone, 4 ft. base, 3 ft. high.

At point for cor.

Set an iron post, 3 ft. long, 3 ins. diam., 6 ins. in the ground to bedrock, with the original stone deposited at the base, and in a mound of stone to top, for 339 + 3.00 chs. Mile Cor. with brass cap mkd.

339 M

NEV | ARIZ

1933

Land, mountainous.

Soil, rocky; 4th rate.

Timber, none; undergrowth, cactus, joshua and catclaw.

N.0°07'E., on a true line along the Arizona and Nevada State Boundary.

Over mountainous land, through scattered desert growth.

Descend 62 ft. over broken NW. slope.

26.89 Wash, 5 lks. wide, course SW.; asc. 86 ft. over broken SE. slope.

50.89 The 338 + 32.00 chs. Mile Cor., which is a wooden post, 4 ins. sq., 5 ft. long, mkd. ARIZONA on E. face and NEVADA on W. face, loosely set in a mound of stone, 3½ ft. base, 2½ ft. high.

At point for cor.

Set an iron post, 3 ft. long, 3 ins. diam., 18 ins. in the ground to bedrock, with the original stone deposited alongside, and in a mound of stone to top, for 338 + 32.00 chs. Mile Cor., with brass cap mkd.

338 M

NEV | ARIZ

1933

Land, mountainous.

Soil, sandy; 3rd rate.

Timber, none; undergrowth, cactus, joshua and greasewood.

Resurvey of a Portion of the Arizona and Nevada  
State Boundary.

Chains.	N.1°27'W., on a true line along the Arizona and Nevada State Boundary.
	Over mountainous land, through scattered desert growth. Ascend 30 ft. over SE. slope.
1.80	Spur, slopes W.; continue along W. slope of spur.
7.80	Leave same; desc. 46 ft. over NW. slope.
18.62	Wash, 10 lks. wide, course SW.; asc. 145 ft. over SE. slope.
36.70	Spur, slopes E.; desc. 108 ft. over NE. slope.
49.80	Wash, 5 lks. wide, course SE.; asc. 611 ft. over broken SE. slope.
80.35	Drain 10 lks. wide, course SE.; asc. 211 ft. over SW. slope.
87.40	Spur, slopes SE.; desc. 62 ft. over NE. slope.
94.13	Wash, 5 lks. wide, course SE.; asc. 134 ft. over SW. slope.
100.89	Spur, slopes SE.
101.90	The 337 + 10.00 chs. Mile Cor., which is an iron post 3 ins. diam., 6 ins. above ground, firmly set, with the original wooden post, 4 ins. sq., 3 ft. long, (marks obliterated) deposited alongside, with brass cap mkd.

A P  
NEV | ARIZ  
1932

Land, mountainous.  
Soil, rocky; 4th rate.  
Timber, none; undergrowth, greasewood and cactus.

	N.3°24'W., on a true line along the Arizona and Nevada State Boundary.
	Over mountainous land, through scattered desert growth. Descend 74 ft. over NE. slope.
11.35	Wash, 15 lks. wide, course SE.; asc. 95 ft. over SW. slope.
22.20	Spur, slopes SE.; desc. 64 ft. over NE. slope.
31.57	Wash, 5 lks. wide, course SE.; asc. 264 ft. over broken SW. slope.
37.50	Continue along E. slope.
43.50	Descend 186 ft. over broken N. slope.
50.43	Wash, 10 lks. wide, course E.; asc. 222 ft. over S. slope.
61.50	Spur, slopes E.; desc. 52 ft. over NE. slope.

## State Boundary.

BOOK 3939

Chains.

68.69

Wash, 15 lks. wide, course E.; asc. 44 ft. over broken SE. slope.

80.27

The 336 Mile Cor., which is the remains of a decayed juniper post, (evidence of scribe marks) set in a mound of stone 4 ft. base, 3 ft. high.

At point for cor.

Set an iron post, 3 ft. long, 3 ins. diam., 8 ins. in the ground to bedrock, with a limestone, 10x8x6 ins. mkd. X, deposited at the base, and in a mound of stone to top. for 336 Mile Cor., with brass cap mkd.

336 M

NEV | ARIZ

1933

Land, mountainous.

Soil, rocky; 4th rate.

Timber, none; undergrowth, cactus, catclaw, joshua and greasewood.

N.3°45'W., on a true line along the Arizona and Nevada State Boundary.

Over mountainous land, through scattered desert growth.

Along broken E. slope.

.50

Spur, slopes E.; desc. 14 ft. over NE. slope.

6.60

Wash, 5 lks. wide, course E.; continue along broken E. slope.

61.17

Wash, 10 lks. wide, course SE.

61.88

Wash, 10 lks. wide, course SE.

71.52

Wash, 5 lks. wide, course E.

81.00

The 335 Mile Cor., which is an iron post, 3 ins. diam., 6 ins. above ground, firmly set, with the original wooden post, 4 ins. sq., 1½ ft. long, deposited along side, mkd. illegible, with brass cap mkd.

335 M

NEV | ARIZ

1932

Land, mountainous.

Soil, sandy; 3rd rate, and rocky; 4th rate.

Timber, none; undergrowth, cactus, catclaw, joshua and greasewood.

N.1°28'W., on a true line along the Arizona and Nevada State Boundary.

Over rolling land, through scattered desert growth.

3.92

Wash, 30 lks. wide, course SE.; asc. 45 ft. over SE. slope.

Chains.	
6.60	Spur, slopes SE.; desc. 41 ft. over NE. slope.
14.92	Wash, 30 lks. wide, course SE.
20.62	Rocky wash, 30 lks. wide, course SE.; asc. 98 ft. over SE. slope.
29.60	Spur, slopes SE.; desc. 80 ft. along E. slope.
38.12	Draw, 30 lks. wide, course SE.; asc. 55 ft. over SW. slope.
43.00	Spur, slopes E.; desc. 74 ft. over NE. slope.
48.32	Head of draw, course SE.; asc. 17 ft. over S. slope.
50.92	Small spur, slopes SE.; desc. 16 ft. over NE. slope.
58.82	Wash, 30 lks. wide, course SE.
62.37	Head of draw, course SE.; asc. 21 ft. over SE. slope.
66.10	Spur, slopes SE.; desc. 16 ft. over NE. slope.
69.12	Small draw, course SE.; asc. 17 ft. over SE. slope.
71.10	Spur, slopes E.; desc. 41 ft. over NE. slope.
73.92	Wash, 50 lks. wide, course SE.; asc. 46 ft. over NE. slope.
77.10	Spur, slopes SE.; desc. 12 ft.
83.16	The 334 Mile Cor., which is an iron post, 3 ins. diam., 6 ins. above ground, firmly set, with the original wooden post, 4 ins. sq., 2½ ft. long, deposited alongside, mks. illegible, witnessed by a mound of stone 4 ft. base, 3 ft. high, S. of cor. with brass cap mkd.

334 M

NEV | ARIZ

1932.

Land, rolling.

Soil, rocky; 4th rate.

Timber, none; undergrowth, cactus, joshua and greasewood.

N.0°49'E., on a true line along the Arizona and Nevada State Boundary.

Over rolling land, through scattered desert growth.

3.00	Fence, bears NE. and SW.
5.61	Wash, 10 lks. wide, course SE.
7.10	Road, bears NW. to Whitney Ranch, and SE. to Pakoon Spring.
7.17	Intersect an iron post, 1 in. diam., 6 ins. above ground, firmly set, with brass cap mkd.

NEV | ARIZ

1932

Resurvey of a Portion of the Arizona and Nevada  
State Boundary.

BOOK 3989

Chains.	
7.97	Wash, 20 lks. wide, course SE.; asc. 30 ft. over SW. slope.
10.50	Spur, slopes SE.; desc. 30 ft. over NE. slope.
13.24	Wash, 10 lks. wide, course SE.; asc. 30 ft. over SW. slope.
15.00	Spur, slopes SE.; desc. 101 ft. over NE. slope.
19.90	Enter small field, bears E. and W.
24.90	Leave same, bears E. and W.
25.20	Wash, 10 lks. wide, course E.; asc. 232 ft. over S. slope.
35.70	Spur, slopes E.; desc. 9 ft. over NE. slope.
37.68	Wash, 5 lks. wide, course SE.; asc. 78 ft. over SW. slope.
40.80	Fence, bears SE. and W.
41.00	Spur, slopes SE.; desc. 11 ft. over NE. slope.
49.55	Wash, 5 lks. wide; course SE.; asc. 34 ft. over SW. slope.
50.00	Spur, slopes E.; desc. 17 ft. over NE. slope.
52.63	Wash, 10 lks. wide, course SE.; asc. 188 ft. over SE. slope.
61.83	Road, bears NE. and SW.
75.00	Spur, slopes SE.; continue along broken E. slope.
78.97	The 333 Mile Cor., which is an iron post, 3 ins. diam., 20 ins. above ground, firmly set, with the original wooden post, 3 ins. sq., 3 ft. long, deposited alongside, mks. legible, ARIZONA on E. face and NEVADA on W. face, and in a mound of stone to top, with brass cap mkd.

333 M  
 NEV | ARIZ  
 1932

Land, rolling.  
 Soil, sandy; 3rd rate.  
 Timber, none; undergrowth, cactus, joshua and greasewood.

	N.0°51'W., on a true line along the Arizona and Nevada State Boundary.
	Over mountainous land, through scattered desert growth.
	Ascend 29 ft. over SW. slope.
2.50	Spur, slopes E.; desc. 91 ft. over N. slope.
8.14	Wash, 5 lks. wide, course E.; asc. 143 ft. over SE. slope.

Resurvey of a Portion of the Arizona and Nevada  
State Boundary.

Chains.	
16.00	Spur, slopes E.; desc. 9 ft.
18.07	Wash, 5 lks. wide, course SE.; asc. 127 ft. over SW. slope.
21.29	Fence, bears NW. and SE.
23.60	Spur, slopes E.; desc. 101 ft. over NE. slope.
30.39	Wash, 5 lks. wide, course SE.; asc. 103 ft. over SE. slope.
36.65	Spur, slopes E.; desc. 56 ft. over NE. slope.
38.56	Wash, 10 lks. wide, course SE.; asc. 108 ft. over SW, slope.
41.30	Ridge, bears NW. and SE.; desc. 91 ft. over NE. slope.
44.66	Wash, 20 lks. wide, course SE.; asc. 206 ft. over S. slope.
53.15	Spur, slopes E.; desc. 14 ft. over NE. slope.
58.75	Head of wash, course E.; asc. 121 ft. over SE. slope.
63.85	Spur, slopes E.; desc. 112 ft. over NE. slope.
70.74	Wash, 5 lks. wide, course E.; asc. 149 ft. over SE. slope.
77.00	Spur, slopes E.; desc. 15 ft. over NE. slope.
79.27	Wash, 5 lks. wide, course E.; asc. 246 ft. over SE. slope.
87.80	Spur, slopes E.; desc. 283 ft. over NE. slope.
97.51	Wash, 20 lks. wide, course SE.; asc. 293 ft. over SE. slope.
104.22	The 331 + 55.00 chs. Mile Cor., which is an iron post, 3 ins. diam., 4 ins. above the top of a mound of stone, 4 ft. base 2½ ft. high, with the original wooden post, 4 ins. sq., 4 ft. long, deposited alongside, mkd. NEVADA on W. face, ARIZONA on E. face and WC on N. face, with brass cap mkd.
	331 M+ 55 NEV   ARIZ 1932
	Land, mountainous. Soil, rocky; 4th rate. Timber, none; undergrowth, cactus and greasewood.
	N.0°21'E., on a true line along the Arizona and Nevada State Boundary.
	Over mountainous land, through scattered desert growth.
	Descend 197 ft. over NE. slope.
4.76	Wash, 5 lks. wide, course E.; asc. 70 ft. over SE. slope.

## State Boundary.

BOOK 8989

Chains.  
 9.40 Spur, slopes E.; desc. 146 ft. over NE. slope.  
 14.41 Wash, 10 lks. wide, course E.; asc. 9 ft.  
 24.10 Spur, slopes E.; desc. 44 ft. along broken E. slope.  
 25.63 Wash, 5 lks. wide, course NE.  
 35.14 Low spur, slopes E.; desc. 306 ft. over N. slope.  
 55.45 The 331 Mile Cor., which is the remains of a charred cedar post, 4 ins. sq., 20 ins. long, mks. obliterated by fire, set in a mound of earth.

At point for cor.

Set an iron post, 3 ft. long, 3 ins. diam., 12 ins. in the ground to bedrock, with a limestone, 20x14x10 ins. mkd. X, deposited at the base, and in a mound of stone to top, for 331 Mile Cor., with brass cap mkd.

331 M

NEV | ARIZ

1933

Land, mountainous.  
 Soil, rocky; 4th rate.  
 Timber, scattered pinyon and juniper; undergrowth, greasewood and cactus.

FINAL TEST OF SOLAR ATTACHMENTS.

Mar. 8 1933; with instrument No. 19423, on the meridian determined by Polaris observation, hereinbefore described, at 8h 30m a.m., app. t., I set off  $36^{\circ}19\frac{1}{4}'$  N., on the lat. arc;  $4^{\circ}52'$  S., on the decl. arc; and orient the instrument with the solar; the line of sight agrees with the meridian established by Polaris observation.

At 4h 30m p.m., app. t., I set off  $36^{\circ}19\frac{1}{4}'$  N., on the lat. arc;  $4^{\circ}43\frac{1}{2}'$  S., on the decl. arc; and repeat the test of the solar; the line of sight agrees with the meridian established by Polaris observation.

March 8, 1933.

Mar. 24 1933; with instrument No. 14189 on the meridian determined by Polaris observation, hereinbefore described, at 8h 30m a.m., app. t., I set off  $36^{\circ}28\frac{1}{2}'$  N., on the lat. arc;  $1^{\circ}26'$  N., on the decl. arc; and orient the instrument with the solar; the line of sight agrees with the meridian established by Polaris observation.

At 4h 30m p.m., app. t., I set off  $36^{\circ}28\frac{1}{2}'$  N., on the lat. arc;  $1^{\circ}33\frac{1}{2}'$  N., on the decl. arc; and repeat the test of the solar; the line of sight agrees with the meridian established by Polaris observation.

March 24, 1933

GENERAL DESCRIPTION.

The land along the Arizona and Nevada State Boundary is rolling and mountainous land. The soil is sandy; 3rd rate and rocky; 4th rate. The undergrowth consists of desert growth, cactus, catclaw, joshua and greasewood. Scattering juniper and pinyon timber is found near the 330 Mile Cor. The Whitney Ranch is located about  $\frac{1}{4}$  mile north westerly from the 331 mile cor.

4-680  
(August, 1926)

BOOK 3989

**FIELD ASSISTANTS.**

NAMES.	CAPACITY.
Elliott Pearson	1st. Chainman
Henry Hiester	2nd. Chainman
A.L. Lovelady	Flagman
Wayne Yates	Moundman
Lamar Sorenson	Axeman
<i>Same for both sides</i>	

CERTIFICATE OF UNITED STATES SURVEYOR

We, William E. Hiester, U.S. Surveyor

and Walter H. Good, U. S. Surveyor, hereby certify upon honor that, in pursuance

of special instructions received from the District Cadastral Engineer for Arizona and the 21st. day of December, 1932,

bearing date of the 30th day of June, 1931, we have well, faithfully, and truly

in my own proper person, and in strict conformity with said instructions, the Manual of Surveying, Instruc-

tions, and the laws of the United States, surveyed all these portions and resurveyed a por-

tion of the Arizona-Nevada State boundary, from the 350+1 chain Mile

Corner to the 331 Mile Corner, along a portion of the West boundary of

T.33 N., R.16 W., along the West boundaries of Ts. 34, 35 and 36 N., R.16 W.,

and along a portion of the West boundary of T.37 N., R.16 W.,

of the Gila and Salt

River Meridian, in the State of Arizona, which are represented in

the foregoing field notes as having been executed by us, and under our direction; and that all the corners of

said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instruc-

tions, and the special written instructions of the District Cadastral Engineer for Arizona

and in the specific manner described in the field notes, and that the foregoing are the original field notes of

such survey.

Walter H. Good U.S. Surveyor

William E. Hiester U. S. Surveyor.

Glendale, California, August 26, 1933.

Boise Idaho Sept. 9, 1933

APPROVAL

OFFICE OF U. S. SUPERVISOR OF SURVEYS,

Denver, Colorado, April 28, 1934.

The foregoing field notes of the survey of a portion of the Arizona-Nevada State

boundary, from the 350+1 Chain Mile Corner to the 331 Mile Corner, along

a portion of the West boundary of T.33 N., R.16 W., along the West bound-

aries of Ts. 34, 35 and 36 N., R.16 W., and along a portion of the West

boundary of T.37 N., R.16 West, of the Gila and Salt River Meridian, in

the State of Arizona,

executed by William E. Hiester and Walter H. Good, U.S. Surveyors

under their special instructions dated June 30, 1931 and December 21, 1932, having been

critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys

they describe, are hereby approved.

[Signature] U. S. Supervisor of Surveys.

I certify that the foregoing transcript of the field notes of the above described surveys in

has been correctly copied from the original notes on file in this office.

U. S. Supervisor of Surveys.