Book "E"

4—679

3929

195

ORIGINAL

(1)

BOOK 3929

FIELD NOTES

OF THE RESURVEY OF

Part of the South Boundary

and

Part of the Subdivision Lines of

Township 4 South, Range 4 West

3929

AND OF THE SURVEY OF

Part (Completion) of the South Boundary

Part (Completion) of the West Boundary

and

Part (Completion) of the Subdivision Lines of

Township 4 South, Range 4 West

Of the Gila and Salt River Base and *Meridian,*

In the State of Arizona

EXECUTED BY

3929

Karl L. Siebecker, U.S.Surveyor

In the capacity of U. S. Surveyor, under Special Instructions dated July 15, *1930, issued by the District Cadastral Engineer to govern surveys included in Group No.* 164 Arizona, *which were approved by the Commissioner of the General Land Office,* August 5, *1930, and Assignment Instructions dated* February 16, *1931*

Resurvey and *Survey commenced* March 2, *1931*

Resurvey and *Survey completed* March 9, *1931*

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Retracement for Survey and Resurvey- Feb.17 to Feb.28, 1931.

INDEX DIAGRAM.

Township ....., *Range* .....

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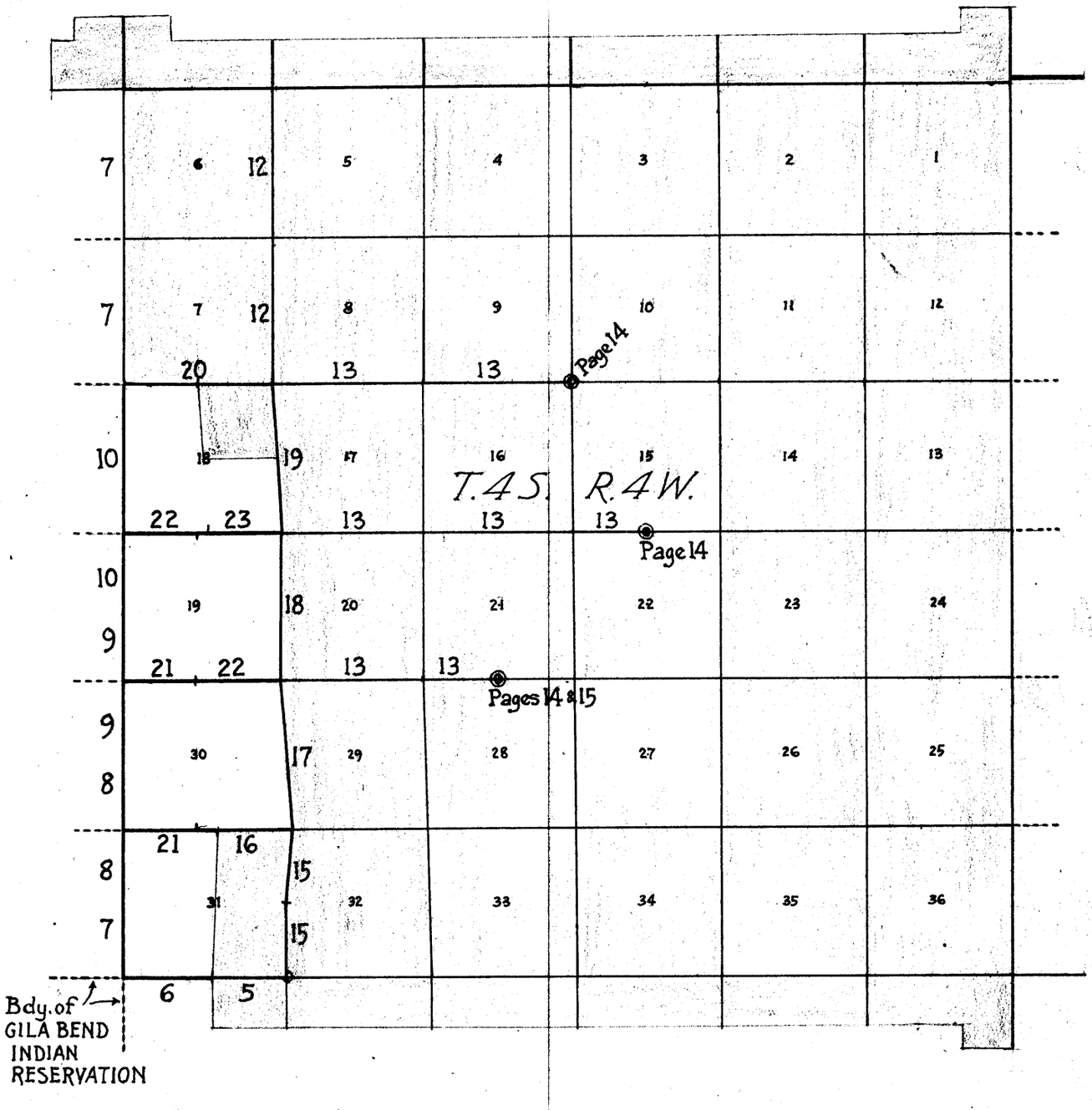
U. S. GOVERNMENT PRINTING OFFICE 6—151

Book "E"

Group 164 Arizona

INDEX DIAGRAM

BOOK 3929



Surveyed under this group.

Resurveyed under this group.

Retraced for the resurveys of this group.

Retraced for surveys of this group.

Lines of accepted surveys.

Unsurveyed.

Remote original corners reconstructed for resurvey control.

Areas surveyed as per accepted plats on file.

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2

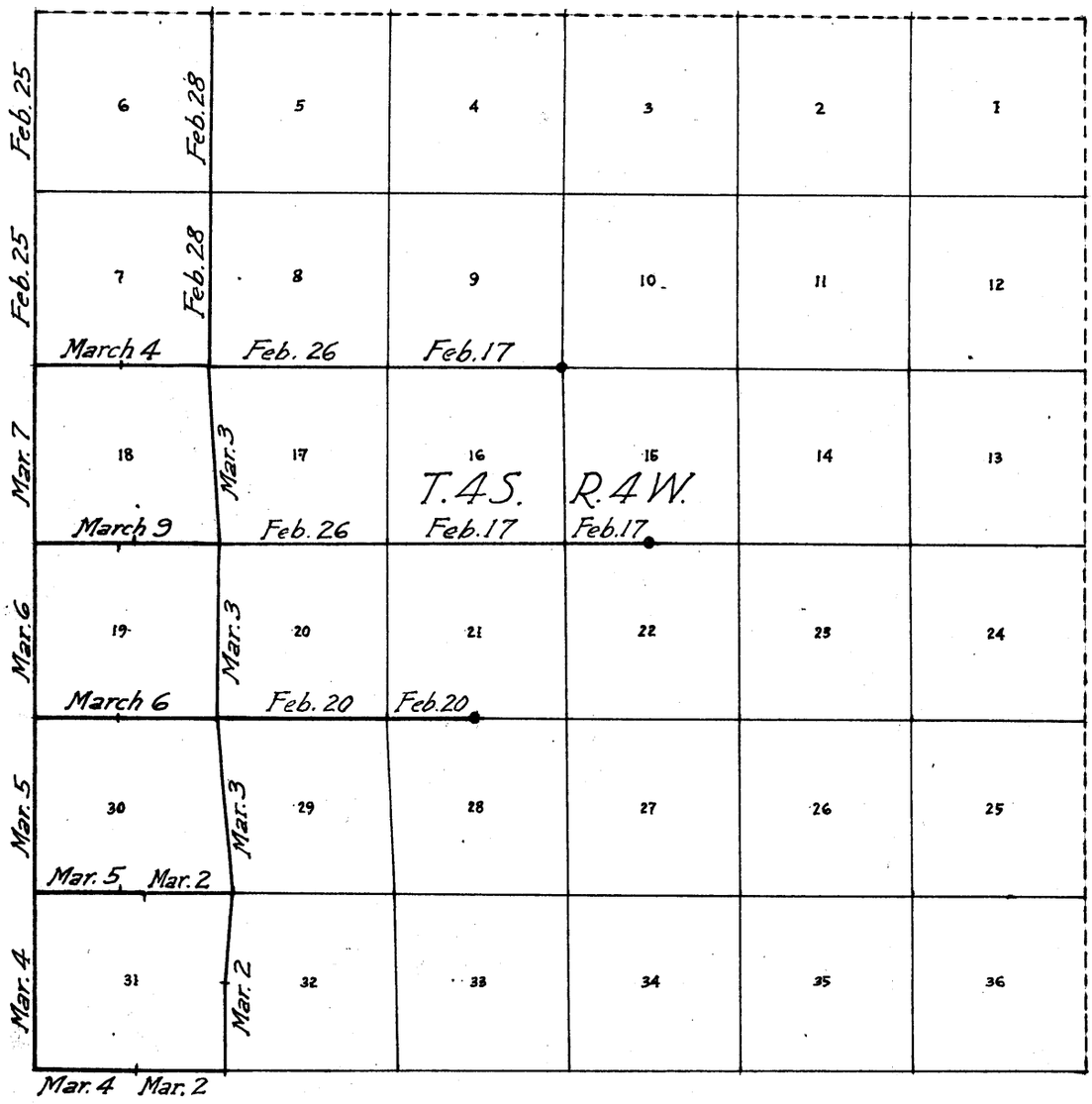
Book "E"

Group 164 Arizona

DATE DIAGRAM

(1931)

BOOK 3929



——— Surveyed

——— Resurveyed

——— Retraced for survey.

——— Retraced for resurvey

} Under this group by Karl L. Siebecker, U.S. Surveyor on dates (1931) shown thereon and as described in Notes herein.

- - - - - - - Resurveyed under this group, Date Diagram & Notes in Book "D."

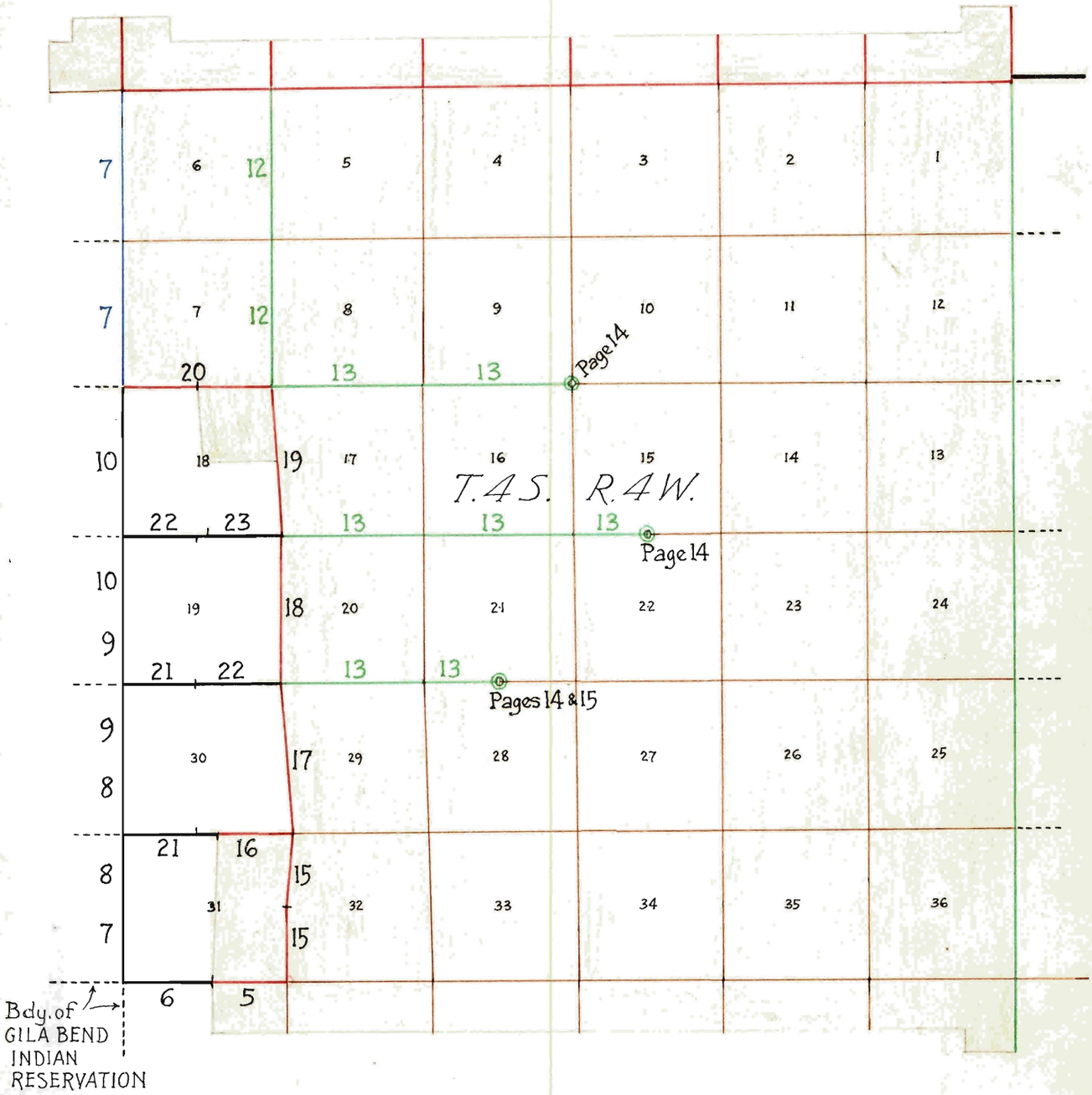
- - - - - - - Retraced for resurveys of this group, Date Diagram & Notes in Book "D"

——— Accepted, surveyed lines.

Book "E"

Group 164 Arizona

INDEX DIAGRAM



Surveyed under this group.

Resurveyed under this group.

Retraced for the resurveys of this group.

Retraced for surveys of this group.

Lines of accepted surveys.

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Remote original corners reconstructed for resurvey control.

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198

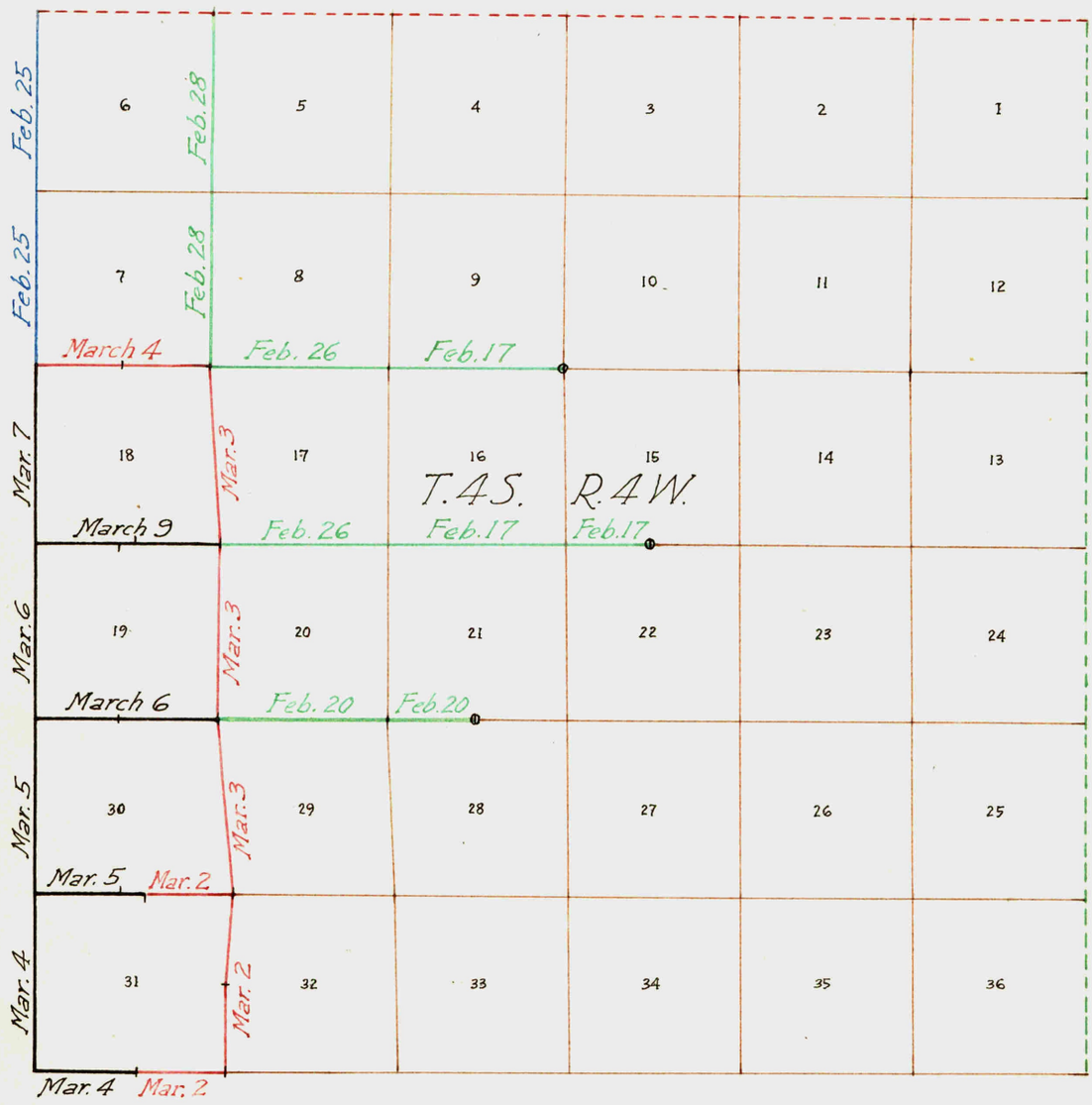
2

Book "E"

Group 164 Arizona

DATE DIAGRAM

(1931)



Surveyed

Resurveyed

Retraced for survey.

Retraced for resurvey

Under this group by Karl L. Siebecker, U.S. Surveyor on dates (1931) shown thereon and as described in Notes herein.

Resurveyed under this group, Date Diagram & Notes in Book "D."

Retraced for resurveys of this group, Date Diagram & Notes in Book "D"

Accepted, surveyed lines.

The resurveys and surveys herein described were executed by Karl L. Siebecker, U.S. Surveyor, using a Gurley solar transit No. 20120, conforming to the standard specifications of the General Land Office. The horizontal circle has a diameter of 5¾ ins., with two double opposite verniers reading to 30" of arc; the vertical circle has a diameter of 4⅛ ins., with one double vernier reading to single minutes of arc; the telescope has fixed stadia wires, ratio 1:32, with focal constant of 1.19 lks.
The instrument is equipped with the improved Smith solar attachment; radius of latitude arc 2⅛ ins., and of declination arc 3.1 ins.; each with verniers reading to single minutes of arc.

The instrument was approved by the district cadastral engineer for the Calif.-Arizona district, at Phoenix, Arizona, February 16, 1931, subject to satisfactory field tests of same.

The directions of the lines were determined by 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 thereafter at intervals of 10 lks. The tape was tested by comparison with a Lufkin standard tape and found correct. The measurements were made on the slope, vertical angles determined by clinometer, and the slope distances properly reduced to horizontal equivalents for entry in the field notes.

The data furnished with the special instructions gives the geographic position of the SE. cor. of T.4 S., R.4 W. as in latitude 33°01'41"N., longitude 112°37'00"W.

March 1, 1931; examine the adjustment of transit and correct all errors, then, to test the solar apparatus by comparing its indications, resulting from a.m. and p.m. observations, with a meridian determined by Polaris observations, proceed as follows:

At camp near cor. of secs. 5, 6, 7, and 8, T.3 S., R.4 W., G.& S.R. B.& M., Ariz., lat. 33°11'13"N., long. 112°42'10"W., on the meridian determined by Polaris observation at this point on Oct. 22, 1930 as described in Book "D" of this group,

At 8h.00m., a.m., app. t., set off 33°11'N. on the lat. arc, 7°45½'S. on the decl. arc, and orient the transit with the solar; the line of sight agrees within 1' with the true meridian.

At 4h.00m., p.m., app. t., with the lat. arc unchanged, set off 7°38'S. on the decl. arc, and orient the transit with the solar; the line of sight agrees with the true meridian.

As all of the observations made during the usual hours of solar work define positions for meridian which agree within 1' with the true meridian, conclude that the instrument is in satisfactory adjustment.

Resurvey of Part of the South Boundary of T.4 S.,R.4 W.

Chains

The east five miles of the S. bdy. of T.4 S.,R.4 W.were surveyed due west by S.W.Foreman,U.S.D.S. in 1871, establishing common reference corners thereon at 40 ch. intervals.

The east half of the south bdy.of sec.31 of said Tp. was surveyed due west by W.M.Breakenridge,U.S.D.S. in 1890 establishing a common reference quarter sec.cor. at 40 chs.west from sec.cor.

No retracement or resurvey of any part of this Tp. bdy. is of record.

The following notes describe a dependent resurvey of the east half of the portion of the Tp.bdy. between secs. 6 and 31, reconstructing both terminal corner monuments thereof.

Retracement for Resurvey.

From the reestablished cor. of secs.5,6,31,and 32,

West, on random line, bet. secs.6 and 31 (E.½)

39.89 Fall 17 lks. N. of original ¼ sec.cor.

True course and dist.:- S.89°45'W., 39.89 chs.

Resurvey.

The cor.of secs.5,6,31,and 32, reestablished by W.M. Breakenridge,U.S.D.S. in 1890, is a decayed stub of a mesquite post, 4 ins.square, in a mound of earth, witnessed by faint traces of pits in each sec. The upper part of the post, bearing the marking described in the official record, is lying on the ground alongside. No bearing trees.

Reconstruct this cor. monument as follows:
remove the mound of earth,and in center of its position reset the marked portion of the old wood post, and alongside same set an iron post, 3 ft. long, 2 ins. in diam., 28 ins. in the ground, for cor. of secs.5,6,31, and 32, with brass cap mkd.

T4S	R4W
S31	S32
S6	S5

T5S

1931

from which

a mesquite, 30 ins. diam., brs. N.45½°E., 203 lks. dist., mkd. T4S R4W S32 BT

a mesquite, 20 ins. diam., brs. S.44¾°E., 110 lks. dist., mkd. T5S R4W S5 BT

a mesquite, 6 ins. diam., brs. S.58¼°W., 68 lks. dist., mkd. T5S R4W S6 BT

a mesquite, 22 ins.diam., brs. N.24°W., 99 lks. dist., mkd. T4S R4W S31 BT

Thence

Resurvey of Part of the South Boundary of T.4 S., R.4 W.

Chains	
	S.89°45'W., on true line, bet. secs. 6 and 31 (E.⅛)
	Over rolling bottom land, thru dense timber and undergrowth.
8.50	Leave old river bottom and dense timber, continue thru scattering timber, bears N. and S.
18.00	Enter dense timber, bears N. and S. Ascend 20 ft. over SE. slope.
18.50	Spur, slopes NE. Road, bears NW. and SE. Descend 20 ft. over NW. slope.
26.20	Wash, 20 lks. wide, course S.
28.40	Enter broken, hilly land.
36.00	Wash, 100 lks. wide, course NE.
39.89	Intersect the original ¼ sec. cor. of secs.6 and 31, which is a mesquite post, 4 ins. square, projecting 30 ins. above ground, firmly set in ground and mound of earth and stone, and mkd. ¼S on W. face. No bearing trees.

Reconstruct this cor. monument as follows:
remove the mound, and alongside the wood post, set an iron post, 3 ft. long, 1 in. in diam., 10 ins.in the ground to bedrock, and raise a mound of stone, 4 ft. base, around posts, for ¼ sec.cor. of secs. 6 and 31, with brass cap mkd.

¼ S 31 / S 6

1931

from which

an ironwood, 12 ins. diam., brs. S.11½°W., 164 lks. dist., mkd. ¼ S6 BT

a paloverde, 6 ins. diam., brs. N.1°W., 255 lks. dist., mkd. ¼ S31 BT

Land, rolling and hilly.
Soil, sandy and gravelly loam, 3rd rate.
Timber, mesquite, ironwood, and paloverde.
Undergrowth, same, with cacti, greasewood, and ocotillo.

Survey of Part (Completion) of South Boundary of T.4 S.,R.4 W.

Chains	
	The following notes describe the survey of the west half of the line bet. secs.6 and 31, Ts.5 and 4 S., R.4 W., which completes the survey of the south bdy. of T.4 S.,R.4 W.
	From the ¼ sec.cor. of secs.6 and 31, reconstructed as hereinbefore described,
	West, on true line, bet. secs.6 and 31 (W.½)
	Over rough, mountainous land, thru scattering timber and undergrowth. Ascend 700 ft. over broken SE. slope to spur at 45.00 ch. station.
21.00	Spur, slopes SE.
27.50	Draw, course SE.
45.00	High, rocky spur, slopes S. Descend 132 ft. over SW. slope to
48.36	Intersect range line at a point 4 lks. S. from temp. Tp. cor. set 480.00 chs. S. from the cor. of Ts.3 and 4 S.,Rs.4 and 5 W.,as hereinafter described.
	At this point of intersection, set an iron post, 3 ft. long, 3 ins. in diam., over a cross (X) mkd. on bedrock 10 ins. below surface of the ground, and raise a mound of stone, 4½ ft. base. around post, for cor. of Ts.4 and 5 S.,R.4 W., with brass cap mkd.

T4S
R4W
S31
S6
T5S

1931

No bearing trees available.

Land, rough mountainous.
Soil, rocky, 4th rate.
Timber, ironwood, and paloverde,
Undergrowth, same, with greasewood.

Survey of Part (Completion) of West Boundary of T.4 S.,R.4 W.

Chains	
	The north two miles of the west bdy. of T.4 S.,R.4 W. were surveyed by S.W.Foreman,U.S.D.S. in 1871, and no retracement or resurvey of any part thereof is of record.
	The following notes describe the survey of the south four miles of said Tp. bdy., which completes survey of the Tp. bdy. Corner monuments established in this survey are marked and witnessed to refer to areas east of line only.
	Retracement for Survey.
	From the reestablished cor. of Ts.3 and 4 S.,Rs.4 and 5 W., described in Book "D" of this group,
	South, on random line, searching at record intervals for the original cors. on W. bdy. of T.4 S.,R.4 W. Fail to find a trace of any of said cors. and at
160.00	Set temp. cor. of secs.7 and 18.
	Survey.
	From temp. cor. of secs.7 and 18,
	South, on random line, for distance only, setting temp. cors. at 40 ch. intervals, and at
320.00	Set temp. cor. of Ts.4 and 5 S., R.4 W.
320.04	Intersect the cor. of said Ts. established by survey of completion of the S. bdy. of T.4 S.,R.4 W. as hereinbefore described.
	Thence,
	North, on true line, on W. bdy. of sec. 31:
	Over rough, mountainous land, thru very scattering timber and undergrowth. Asc. 215 ft. over steep,cliffy, SW. slope.
6.70	Rocky spur, slopes SE. Desc.75 ft.over broken E.slope.
11.20	Head of gulch, course SE.
21.20	Head of gulch, course E. Asc. 150 ft.
23.90	Spur, slopes E. Desc. 235 ft.
28.50	Gulch, course E. Asc. 10 ft.
33.95	Spur, slopes E. Desc. 15 ft.
40.07	(Midpoint of W. bdy.of sec.31) True point for establishment of the ¼ sec.cor. of sec.31 falls on sloping rock ledge, where it is impracticable to set monument, therefore at
40.12	Set an iron post, 3 ft. long, 1 in.in diam.,over a cross (X) mkd. on bedrock, 8 ins. below the surface of the ground, and raise a mound of stone,4½ ft. base, around post, for witness cor. to ¼ sec.cor. of sec.31 only, with brass cap mkd.

¼
S 31
WC
1931

Survey of Part (Completion) of the West Boundary of T.4 S.,R.4 W.

Chains	
	No bearing trees available.
	Desc. 425 ft. over NW. slope.
46.70	Gulch, course NE. Asc. 30 ft.
52.50	Spur, slopes E. Desc. 160 ft. over NE. slope to
80.14	A point due west from the cor. of secs.29,30,31 and 32, determined by resurvey and survey of the subdivision line bet. secs.30 and 31,as hereinafter described. At this point, set an iron post, 3 ft. long, 2 ins. in diam., 28 ins. in the ground, for cor. of secs. 30 and 31 only, with brass cap mkd.

T4S
S30
S31
R4W

1931

from which

a paloverde, 4 ins. diam., brs. N.53½°E., 33 lks. dist., mkd. T4S R4W S30 BT

a paloverde, 5 ins. diam., brs. S.43½°E., 77 lks. dist., mkd. T4S R4W S31 BT

Land, rough mountainous.
Soil, gravelly and rocky loam, 4th rate.
Timber, paloverde, and ironwood.
Undergrowth, same, with greasewood,cacti,and ocotillo.

Chains	
	North; on true line, on W. bdy. of sec.30.
	Over broken, hilly land, thru very scattering timber and undergrowth. Ascend 15 ft. over SE. slope.
2.00	Spur, slopes SE. Desc. 130 ft. to ¼ sec.cor.
3.00	Wash, 40 lks. wide, course NE.
27.80	Wash, 80 lks. wide, course NE.
31.10	Wash, 20 lks. wide, course E.
40.00	Set an iron post, 3 ft.long, 1 in.in diam., 26 ins. in the ground, for ¼ sec. cor. of sec.30 only, with brass cap mkd.

¼
S 30

1931

from which

an ironwood, 6 ins. diam., brs. S.48¼°E., 230 lks. dist., mkd. ¼ S30 BT

No other bearing tree available.

dig pits, 18x18x12 ins., N.and S. of cor.,3 ft. dist.

Survey of Part (Completion) of West Boundary of T.4 S.,R.4 W.

Chains	
57.40	Wash, 30 lks. wide, course E.
66.60	Wash, 40 lks. wide, course E. Asc. 30 ft.
71.50	Low spur, slopes SE. Desc. 15 ft.
74.10	Wash, 10 lks. wide, course SE. Asc. 10 ft. to
80.00	Set an iron post, 3 ft. long, 2 ins.in diam., 8 ins. in the ground to bedrock, and raise a mound of stone,4 ft. base, around post, for cor. of secs.19 and 30 only, with brass cap mkd. T4S S19 | S30 R4W 1931 from which an ironwood, 5 ins. diam., brs. N.51½°E., 70 lks. dist., mkd. T4S R4W S19 BT a paloverde, 4 ins. diam., brs. S.88½°E., 131 lks. dist., mkd. T4S R4W S30 BT Land, hilly. Soil, gravelly and rocky loam, 4th rate. Timber, paloverde and ironwood. Undergrowth, same,with greasewood,cacti,and ocotillo.
	North, on true line, on W. bdy. of sec. 19. Over broken, hilly land, thru very scattering timber and undergrowth. Desc. 15 ft. over NE. slope.
2.50	Wash, 30 lks. wide, course SE. Asc. 70 ft.
15.00	Spur, slopes E. Desc. 10 ft.
18.00	Wash, course E. Asc. 10 ft.
20.00	Spur, slopes E. Desc. 50 ft.
26.00	Wash, course E. Asc. 30 ft.
30.00	Spur, slopes E. Desc. 70 ft.
37.50	Old road, bears NW. and SE.
38.55	Set an iron post, 3 ft. long, 1 in.in diam.,28 ins.in the ground, for witness cor. to ¼ sec.cor.of sec.19 only, with brass cap mkd. WC ¼ S19 1931 from which a paloverde, 5 ins. diam., brs. N.49¾°E., 187 lks. dist., mkd. ¼ S19 WC BT a paloverde, 5 ins. diam., brs. S.71°E., 176 lks. dist., mkd. ¼ S19 WC BT

Survey of Part (Completion) of West Boundary of T.4 S.,R.4 W.

Chains	
40.00	True point for ¼ sec.cor. of sec.19 falls in a wash, 40 lks. wide, 10 ft.deep, course E., where it would be impracticable to monument the cor.
59.10	Wash, 30 lks. wide, course SE. Asc. gradually.
65.00	Enter mountainous land. Asc. 435 ft. over steep S. slope to
80.00	Set an iron post, 3 ft. long, 2 ins.in diam., 14 ins.in the ground to bedrock, and raise a mound of stone, 5½ ft. base, around post, for cor. of secs.18 and 19 only, with brass cap mkd. T4S S18 | S19 R4W 1931 from which a paloverde, 4 ins. diam., brs. N.73¾°E., 42 lks. dist., mkd. T4S R4W S18 BT a paloverde, 5 ins. diam., brs. S.72°E., 172 lks. dist., mkd. T4S R4W S19 BT Land, hilly and mountainous. Soil, gravelly and rocky, 4th rate. Timber, paloverde and ironwood. Undergrowth, same,with greasewood,cacti,and ocotillo.
	North, on true line, on W. bdy. of sec.18. Over rough mountainous land,thru very scattering timber and undergrowth. Asc. 140 ft. over rocky, cliffy, SE. slope.
7.00	Spur, slopes SW. Desc. 300 ft.
12.90	Bottom of canyon, course SW. Asc. 700 ft.
20.45	Top of high ridge, bears NW. and SE. Desc. 385 ft.
38.00	Gulch, course E. Asc. 60 ft. to
39.90	(40.00 chs. S. from cor.of secs.7 and 18) Set an iron post, 3 ft. long, 1 in.in diam., 6 ins.in the ground to bedrock, over a cross (X) mkd. thereon, and raise a mound of stone, 4½ ft.base,around post, for ¼ sec.cor. of sec.18 only, with brass cap mkd. ¼ S 18 1931 No bearing trees available. Asc. 215 ft. over S. slope.
46.60	Spur, slopes E. Desc. 720 ft.over cliffs and rocks.
64.50	Gulch, course E. Asc. 480 ft. to
79.90	(160.00 chs.S. from cor. of Ts.3 and 4 S.,Rs.4 and 5 W.)

Survey of Part (Completion) of West Boundary of T.4 S.,R.4 W.

Chains	Set an iron post, 3 ft. long, 2 ins. in diam., on surface rock, and raise a mound of stone, 5 ft.base,3 ft.high, around post, for reestablished cor. of secs.7 and 18 only, with brass cap mkd. T4S S7 | S18 R4W 1931 No bearing trees available. On W. face of cliff, S.84¼°E., 54 lks. dist., mark a cross(X) and BO alongside cross. No bearing object available NE. of cor. therefore on NE. face of cliff N.89¼°W., 36 lks. dist. mark a cross(X) and BO alongside cross. Land, rough mountainous. Soil, rocky and gravelly, 4th rate. Timber, paloverde and ironwood. Undergrowth, same,with cacti,and ocotillo.

Resurvey of Part of the Subdivision Lines of T.4 S.,R.4 W.

Chains	
	The subdivision lines of T.4 S.,R.4 W., with the exception of line bet. secs.18 & 19, line bet.secs.19 & 30, and line bet.secs.30 & 31, were surveyed by S.W.Foreman,U.S.D.S. in 1871.
	The east half of line bet. secs.30 & 31 was surveyed, and the line bet. secs.31 & 32,resurveyed, in 1890, by W.M.Breakenridge,U.S.D.S.
	No other surveys or resurveys, and no retracements, of subdivision lines of this Tp. are of record.
	The following notes describe the resurvey of the east boundaries of secs.18,19,30,and 31; the north bdy. of sec.18, and the east half of north bdy. of sec.31.

	Retracement for Resurvey.

	From the reestablished cor.of secs.5,6,31,and 32, on the S. bdy. of the Tp.,
	North, on random line, bet. secs.31 and 32 (S.½)
40.04	Fall 3 lks. W. of reestablished ¼ sec.cor.
	True course and dist.:- N.0°03'E., 40.04 chs.
	Thence
	North, on random line, bet. secs.31 and 32 (N.½)
40.01	Fall 309 lks. W. of the reestablished cor. of secs. 29,30,31,and 32.
	True course and dist.:- N.4°25'E., 40.13 chs.

	West, on random line, on N. bdy. of sec.31 (E.½)
40.00	Find no trace of original ¼ sec.cor. Set temp. cor.
	True course and dist.:- West, 40.00 chs.

	From reestablished cor.of secs.29,30,31,and 32,
	North, on random line, searching for original cors. at record intervals. Fail to find a trace of any of said cors. and at
399.95	Intersect E. and W. line at 10.26 chs. E. from point for reestablishment of the cor.of secs.5,6,31,and 32, determined by record proportion between existing cors. on the N. bdy. of the Tp.,as described in Book "D" of this group.
	From said point of intersection
	South, returning on random meridianal subdivision line, setting one of two sets of temporary section corners, cardinal offsets from which will determine points for reestablishment of the missing section cors. These temporary section cors. are set at intervals proportional to the record.
160.04	Set temp. cor. (A) of secs.7,8,17,and 18.
240.01	Set temp. cor. (A) of secs.17,18,19,and 20.
319.98	Set temp. cor. (A) of secs.19,20,29,and 30.
399.95	Intersect the reestablished cor.of secs.29,30,31,and 32.

Chains	
	From point of original location of the ¼ sec.cor. of secs. 21 and 28,
	West, on random line, searching for the original cors. at record intervals. Fail to find a trace of any of said cors.
114.62	Intersect the random meridianal subdivision line at a point 70 lks. N. of the temp. cor. (A) of secs.19,20, 29,and 30
	Continue line and measurement.
120.00	(Record dist.) Set temp. cor. (B) of same secs.
	The point for reestablishment of the cor. of secs.19,20, 29,and 30 is therefore 5.38 chs. W. from temp.cor.(A) and 70 lks. S. from temp. cor. (B)
	True course and dist. of line bet.secs.29 and 30 are therefore, N.3°51'W., 80.15 chs.

	From original ¼ sec.cor.of secs.15 and 22,
	West, on random line, searching for the original cors. at record intervals. Fail to find a trace of any of said cors.
195.97	Intersect the random meridianal subdivision line at a point 6 lks. N. of the temp. cor. (A) of secs.17,18, 19,and 20.
	Continue line and measurement
200.12	(Record dist.) Set temp. cor. (B) of same secs.
	The point for reestablishment of the cor.of secs.17,18, 19,and 20 is therefore 4.15 chs. W. from temp.cor.(A) and 6 lks. S. from temp.cor.(B)
	True course and dist. of line bet. secs.19 and 20 are therefore, N.0°53'E., 79.98 chs.

	From point of original location of the cor.of secs. 9,10,15,and 16
	West, on random line, searching for the original cors. at record intervals. Fail to find a trace of any of said cors. and at
244.07	Intersect the range line at 51 lks. N. from the temp. cor. of secs.7 and 18, set at record dist. S. from the NW. cor. of the Tp.
	From said point of intersection
	East, returning over a part of the random latitudinal subdivision line
80.93	(Proportional dist.) Set temp. cor. (B) of secs.7,8,17, and 18.
	Continue line and measurement.
90.91	Intersect the random meridianal subdivision line at a point 27 lks. N. of temp. cor. (A) of same secs.
	The point for reestablishment of the cor. of secs.7,8, 17,and 18 is therefore 9.98 chs. W. from temp.cor.(A) and 27 lks. S. from temp. cor.(B)
	True course and dist. of line bet. secs.17 and 18 are therefore N.4°10'W., 80.18 chs., and of line bet. secs.7 and 18, S.89°50'W., 80.93 chs.

Resurvey of Part of the Subdivision Lines of T.4 S.,R.4 W.

Chains

Reconstruction of Control Corners.

The point of original location of the cor.of secs.9,10, 15,and 16 is located from the original bearing tree:

an ironwood, 12 ins.diam.,West,375 lks.dist., on which the old blaze is partly overgrown, but mks.are visible.

At original cor. point, which falls in highway, set an iron post, 3 ft. long, 2 ins.in diam., 48 ins. in the ground, thus placing the top of same 12 ins. below the surface of the highway, for cor. of secs.9,10,15,and 16, with brass cap mkd.

T4S	R4W
S9	S10
S16	S15

1931

from which

set four iron posts for witness cors., each 3 ft.long, 1 in.in diam.,28 ins.in the ground,with brass cap mkd WC in addition to same mkg. as made on sec.cor. cap. These witness cors. bear from section cor.as follows:

N.45°E.,203 lks.; S.45°E.,243 lks.; S.45°W.,20⅔ lks.;

and N.45°W.,28 lks. dist.

The original ¼ sec.cor. of secs.15 and 22 is a decayed wood post, 3 ins. square, projecting 16 ins. above ground, firmly set in ground and mound of earth and stone, and mkd ¼ on N. face. No bearing trees.

Reconstruct this cor.monument as follows:
remove the mound, and alongside the old wood post, set an iron post, 3 ft.long, 1 in.in diam., 28 ins. in the ground, for ¼ sec.cor. of secs.15 and 22, with brass cap mkd.

¼ S 15 / S 22

1931

from which

a mesquite, 6 ins. diam., brs. N.45°E., 334 lks. dist., mkd. ¼ S15 BT

an ironwood, 12 ins. diam., brs. S.18¼°E., 489 lks. dist., mkd. ¼ S22 BT

The point of original location of the ¼ sec.cor. of secs. 21 and 28 is located from the original bearing tree:

a mesquite, 14 ins.diam.,S.1°E.,116 lks.dist., mkd ¼ other marks illegible.

At original cor. point, set an iron post, 3 ft. long, 1 in.in diam., 26 ins. in the ground, for ¼ sec.cor. of secs. 21 and 28, with brass cap mkd.

Chains

$\frac{1}{4}$ S 21 / S 28

1931

from which

a mesquite, 24 ins. diam., brs. S.35°W., 32 lks. dist., mkd. $\frac{1}{4}$ S28 BT

a mesquite, 12 ins. diam., brs. N.44½°W., 51 lks. dist., mkd. $\frac{1}{4}$ S21 BT

Resurvey.

From the reestablished cor. of secs.5,6,31,and 32, on the S. bdy. of the Tp.,hereinbefore described,

N.0°03'E., on true line, bet. secs.31 and 32 (S.½)

Over gently rolling river bottom land, thru dense timber and undergrowth.

40.04 Intersect the reestablished $\frac{1}{4}$ sec. cor. of secs.31 and 32, which is a mesquite post, 5 ins.square, mkd $\frac{1}{4}$S on W. face, projecting 16 ins.above ground, firmly set in ground, and small mound of earth. No bearing trees.

Reconstruct this cor.monument as follows:
remove the mound, and alongside the old wood post, set an iron post, 3 ft. long, 1 in.in diam., 28 ins.in the ground, for reestablished $\frac{1}{4}$ sec.cor.of secs.31 and 32, mkd. on brass cap

$\frac{1}{4}$

S31 | S32

1931

from which

a mesquite, 10 ins. diam., brs. N.82°E., 99 lks. dist., mkd. $\frac{1}{4}$ S32 BT

a mesquite, 9 ins. diam., brs. S.71°W., 29 lks. dist., mkd. $\frac{1}{4}$ S31 BT

Thence

N.4°25'E., on true line, bet. secs. 31 and 32 (N.½)

Over gently rolling river bottom land, thru dense timber and undergrowth.

40.13 Intersect the reestablished cor. of secs.29,30,31,and 32, which is a mesquite post, 4 ins.square, projecting 3 ft. above ground, firmly set in ground and mound of earth, and mkd. as described in the official record. Faint traces of pits. No bearing trees.

Reconstruct this cor.monument as follows:
remove the mound and alongside the old wood post set an iron post, 3 ft.long, 2 ins.in diam.,28 ins.in the ground for reestablished cor. of secs.29,30,31,and 32, with brass cap mkd.

T4S | R4W
S30 | S29
S31 | S32

1931

Resurvey of Part of the Subdivision Lines of T.4 S.,R.4 W.

Chains	
	from which
	a mesquite, 38 ins. diam., brs. N.81°E., 75 lks. dist., mkd. T4S R4W S29 BT
	a mesquite, 6 ins. diam., brs. S.20½°E., 31 lks. dist., mkd. T4S R4W S32 BT
	a mesquite, 16 ins. diam., brs. S.51¾°W., 64 lks. dist., mkd. T4S R4W S31 BT
	a mesquite, 24 ins. diam., brs. N.72¾°W., 72 lks. dist., mkd. T4S R4W S30 BT
	Land, gently rolling. Soil, sandy loam, 2nd and 3rd rate. Timber, mesquite,catclaw,and oak. Undergrowth, same, with greasewood.
	West, on true line, bet. secs. 30 and 31 (E.½)
	Over gently rolling river bottom land,thru dense timber and undergrowth.
6.00	Road, bears NE. and SW.
10.60	Old canal, bears NE. and SW.
14.80	Leave river bottom land. Asc. 20 ft. to
15.10	Top of bank, bears NE. and SW. Leave dense, and enter scattering timber and undergrowth. Desc. 10 ft.
20.60	Drain, 10 lks. wide, course SE. Asc. 30 ft.
25.00	Spur, slopes SE. Desc. 30 ft.
35.50	Wash, 25 lks.wide, course SE. Asc. 5 ft. to
40.00	Set an iron post, 3 ft.long, 1 in.in diam.,16 ins.in the ground to bedrock,and raise a mound of stone,4 ft.base around post, for reestablished ¼ sec.cor. of sec.31 only, with brass cap mkd.
	¼ S 31 1931
	from which
	an ironwood, 6 ins. diam., brs. S.36¾°E., 160 lks. dist., mkd. ¼ S31 BT
	a paloverde, 4 ins. diam., brs. S.14½°W., 125 lks. dist., mkd. ¼ S31 BT
	Land, gently rolling. Soil, sandy and gravelly, 2nd and 3rd rate. Timber, mesquite,paloverde,ironwood,and catclaw. Undergrowth, same, with greasewood and cacti.

Resurvey of Part of the Subdivision Lines of T.4 S.,R.4 W.

Chains	
	From the reestablished cor. of secs.29,30,31 and 32,
	N.3°51'W., on true line, bet. secs. 29 and 30.
	Over gently rolling river bottom land, thru dense timber and undergrowth.
7.00	Road, bears NE. and SW.
8.60	Leave river bottom, dense timber and undergrowth, and ascend gradually over SE. slope, thru scattering timber and undergrowth.
20.50	Center of wash, about 6 chs.wide, course SE. Asc. 25 ft. to
40.08	(Midpoint) Set an iron post, 3 ft. long, 1 in.in diam., 26 ins.in the ground, for reestablished ¼ sec.cor. of secs.29 and 30, with brass cap mkd.

¼

S30 | S29

1931

from which

an ironwood, 8 ins. diam., brs. S.68¾°E., 252 lks. dist., mkd. ¼ S29 BT

an ironwood, 10 ins. diam., brs. S.8½°W., 66 lks. dist., mkd. ¼ S30 BT

Continue graduall ascent over SE. slope.

50.00	Wash, 100 lks.wide, course SE. Asc. 110 ft.
66.00	Spur, slopes NE. Desc. 80 ft. to
80.15	Set an iron post, 3 ft. long, 2 ins. in diam., 26 ins. in the ground, for reestablished cor. of secs.19,20, 29,and 30, with brass cap mkd.

T4S | R4W
S19 | S20
S30 | S29

1931

from which

an ironwood, 10 ins.in diam., brs. N.19°E., 204 lks. dist., mkd. T4S R4W S20 BT

a paloverde, 5 ins.diam., brs. S.9°E., 107 lks. dist., mkd. T4S R4W S29 BT

a paloverde, 6 ins. diam., brs. S.22¼°W., 152 lks. dist., mkd. T4S R4W S30 BT

a paloverde, 7 ins. diam., brs. N.41°W., 113 lks. dist., mkd. T4S R4W S19 BT

Land, rolling and hilly.
Soil, gravelly and rocky, 3rd rate.
Timber, mesquite,paloverde,ironwood,and catclaw.
Undergrowth, same, with greasewood,cacti,and ocotillo.

Resurvey of Part of the Subdivision Lines of T.4 S.,R.4 W.

Chains	
	N.0°53'E., on true line, bet. secs.19 and 20.
	Over rolling land, thru scattering timber and undergrowth Descend 20 ft. over NW. slope.
1.80	Wash, 15 lks. wide, course NE. Asc. gradually over SE. slope.
6.00	Wash, 20 lks. wide, course SE.
12.50	Wash, 50 lks. wide, course E.
14.00	Wash, 10 lks. wide, course SE.
23.20	Leave rolling and enter mountainous land. Asc. 345 ft. over S. slope to
39.99	(Midpoint) Set an iron post, 3 ft. long, 1 in.in diam., 10 ins.in the ground to bedrock, and raise a mound of stone, 4 ft.base, around post, for reestablished ¼ sec. cor. of secs.19 and 20, with brass cap mkd.

¼
S19 | S20
1931

from which

a paloverde, 10 ins.diam., brs. N.33¼°E., 67 lks. dist., mkd. ¼ S20 BT

a paloverde, 5 ins. diam., brs. S.32°W., 87 lks. dist., mkd. ¼ S19 BT

	Asc. 25 ft. over S. slope to
41.00	Point of short spur, slopes S. Asc. 290 ft. to
49.60	Top of rocky spur, slopes E. Desc. 230 ft.
62.00	Head of draw, course E. Asc. 70 ft.
66.80	High rocky spur, slopes E. Desc.450 ft.
74.00	Draw, course NE. Asc. 50 ft.
78.00	Spur, slopes NE. Desc. 50 ft. to
79.98	Set an iron post, 3 ft.long, 2 ins.in diam., 6 ins. in the ground to bedrock,and raise a mound of stone, 5 ft. base, around post, for reestablished cor. of secs.17, 18,19,and 20, with brass cap mkd.

T4S | R4W
S18 | S17
S19 | S20

1931

from which

a paloverde, 5 ins. diam., brs. N.20½°E., 33 lks. dist., mkd. T4S R4W S17 BT

a paloverde, 4 ins. diam., brs. S.19¾°E., 80 lks. dist., mkd. T4S R4W S20 BT

a paloverde, 5 ins. diam., brs. S.18¾°W., 79 lks. dist., mkd. T4S R4W S19 BT

Chains	
	a paloverde, 4 ins. diam., brs. N.47¼°W., 44 lks. dist., mkd. T4S R4W S18 BT
	Land, rolling and mountainous. Soil, rocky, 4th rate. Timber, paloverde, ironwood, and mesquite. Undergrowth, same, with greasewood, cacti, and ocotillo.
	N.4°10'W., on true line, bet. secs.17 and 18.
	Over rolling land, thru scattering timber and undergrowth. Desc. 65 ft. over N. slope.
5.00	Foot of slope, bears NW. and SE. Leave rolling and enter level land, and dense undergrowth.
18.50	Leave timber and undergrowth, and enter cleared land, bears E. and W.
20.50	House, well, and tent, bear E. 35 to 50 lks. dist.
23.00	Leave cleared land, bears E. and W., and enter patches of dense undergrowth, and scattering timber.
40.09	(Midpoint) Set an iron post, 3 ft. long, 1 in. in diam., 28 ins. in the ground, for reestablished ¼ sec. cor. of secs. 17 and 18, with brass cap mkd.

¼
S18 | S17
1931

from which

a mesquite, 8 ins. diam., brs. S.31¾°E., 97 lks. dist., mkd. ¼ S17 BT

a mesquite, 28 ins. diam., brs. N.73°W., 94 lks. dist., mkd. ¼ S18 BT

Continue over level bottom land, thru scattering timber and dense undergrowth.

51.30 Road, bears NW. and SE.

80.18 Set an iron post, 3 ft. long, 2 ins. in diam., 28 ins. in the ground, for reestablished cor. of secs. 7,8,17, and 18, with brass cap mkd.

T4S	R4W
S7	S8
S18	S17

1931

from which

a mesquite, 8 ins. diam., brs. N.42°E., 175 lks. dist., mkd. T4S R4W S8 BT

a mesquite, 18 ins. diam., brs. S.49¾°E., 153 lks. dist., mkd. T4S R4W S17 BT

a mesquite, 10 ins. diam., brs. S.44¼°W., 127 lks. dist., mkd. T4S R4W S18 BT

a mesquite, 10 ins. diam., brs. N.13¾°W., 105 lks. dist., mkd. T4S R4W S7 BT

Land, rolling and level.
Soil, sandy and gravelly, 2nd and 3rd rate.

Resurvey of Part of the Subdivision Lines of T.4 S.,R.4 W.

Chains	
	Timber, paloverde,mesquite,ironwood,and catclaw. Undergrowth, same,with greasewood,sagebrush,and ocotillo.
	S.89°50'W.,on true line, bet. secs.7 and 18.
	Over level bottom land, thru scattering timber and undergrowth.
2.25	Road, bears N. and S.
9.20	Old road, bears N. and S.
21.50	Leave level bottom land, bears N. and S.,and enter hilly land. Asc. 70 ft. over E. slope to
40.82	(Proportional dist.) Set an iron post, 3 ft. long, 1 in. in diam., 16 ins. in the ground to bedrock, and raise a mound of stone,4 ft.base, around post, for reestablished ¼ sec.cor. of secs.7 and 18, with brass cap mkd. ¼ S 7 / S 18 1931 from which an ironwood, 8 ins. diam., brs. N.53¾°E., 132 lks. dist., mkd. ¼ S7 BT a paloverde, 6 ins. diam., brs. S.43½°E., 105 lks. dist., mkd. ¼ S18 BT Ascend 30 ft. over E. slope to
46.90	Leave hilly, and enter mountainous land. Asc. 760 ft. over E. slope to
80.93	Intersect the reestablished cor. of secs.7 and 18 on the West bdy. of the Tp.,hereinbefore described.
	Land, level, hilly and mountainous. Soil, gravelly and rocky, 3rd and 4th rate. Timber, mesquite,paloverde,ironwood,and catclaw. Undergrowth, same,with greasewood,cacti,and ocotillo.

Survey of Part (Completion) of Subdivision Lines-T.4 S.,R.4 W.

Chains	
	The following notes describe the survey of the line bet. secs.18 and 19; the line bet. secs.19 and 30; and the west half of N. bdy. of sec.31, T.4 S.,R.4 W., which completes the survey of the subdivision lines of said township.

	From the reestablished ¼ sec.cor. of sec.31, hereinbefore described,
	West, on true line, on N. bdy., of sec.31 (W.½)
	Over rolling land, thru scattering timber and undergrowth. Ascend 40 ft. over NE. slope.
7.00	Top of ascent, on N. side of spur, sloping SE. from W. Desc. 15 ft. over N. slope to
11.25	(40.00 chs. East from cor.of secs.30 & 31 on W.bdy.of Tp.) Set an iron post, 3 ft. long, 1 in.in diam., 16 ins.in the ground to bedrock, and raise a mound of stone, 3 ft. base, around post, for reestablished ¼ sec.cor.of sec. 30 only, with brass cap mkd.
	¼ S 30 / 1931
	from which
	a paloverde, 6 ins. diam., brs. N.52¾°E., 120 lks. dist., mkd. ¼ S30 BT
	a paloverde, 7 ins. diam., brs. N.55½°W., 188 lks. dist., mkd. ¼ S30 BT
	Desc. 5 ft. over NW. slope.
11.50	Head of drain, course NE. Asc.90 ft. over NE. slope.
41.10	Spur, slopes SE. Desc. 20 ft.
47.00	Head of drain, course SE. Asc. 15 ft. to
51.25	Intersect the cor.of secs.30 and 31, on the West bdy. of the Tp., hereinbefore described.
	Land, rolling. Soil, gravelly loam, 3rd rate. Timber, mesquite, paloverde, ironwood, and catclaw. Undergrowth, same, with greasewood, cacti, and ocotillo.

	From the reestablished cor. of secs.19,20,29 and 30, herinbefore described.
	West, on random line, bet. secs.19 and 30.
45.87	Set temp. ¼ sec. cor.
85.71	Intersect the West bdy. of the Tp. at a point 2½ lks. S. of the cor. of secs.19 and 30, hereinbefore described,
	From cor. of secs.19 and 30,
	S.89°59'E., on true line, bet. secs.19 and 30.
	Over rolling and hilly land, thru scattering timber and undergrowth. Descend 15 ft. over NE. slope.

Survey of Part (Completion) of Subdivision Lines- T.4 S.,R.4 W.

Chains	
3.60	Wash, 30 lks.wide, course SE. Asc. 65 ft.
9.10	Spur, slopes NW. Desc. 125 ft.
24.60	Wash, 30 lks.wide, course SE. Asc. 45 ft.
35.45	Spur, slopes SE. Desc. 25 ft. to
40.00	Set an iron post, 3 ft. long, 1 in.in diam., over a cross (X) mkd. on surface rock, and raise a mound of stone,5 ft.base,3 ft.high, around post, for ¼ sec. cor. of secs.19 and 30, with brass cap mkd. ¼ S 19 / S 30 1931 No bearing trees available.
	Desc. 65 ft. over NE. slope.
50.00	Wash, 60 lks.wide,course SE. Asc. 10 ft.
60.00	Spur, slopes SE. Desc. 45 ft.
68.00	Wash, 30 lks.wide, course SE. Asc. 10 ft.
73.00	Spur, slopes SE. Desc. 30 ft.
85.00	Wash, 15 lks. wide, course NE. Asc.10 ft. to
85.71	Intersect the reestablished cor. of secs.19,20,29,and 30.
	Land, rolling and hilly. Soil, rocky and gravelly, 3rd rate. Timber, paloverde and ironwood. Undergrowth, same,with greasewood,mesquite,cacti, and ocotillo.
	From the reestablished cor.of secs.17,18,19,and 20,
	West, on random line, bet. secs. 18 and 19.
40.00	Set temp. ¼ sec.cor. of sec.18.
46.94	Set temp. ¼ sec.cor. of sec.19.
86.95	Intersect the West bdy. of the Tp. at a point 10 lks. N. of the cor. of secs.18 and 19, hereinbefore described,
	From cor. of secs.18 and 19,
	N.89°56'E., on true line, bet. secs.18 and 19.
	Over rough,mountainous land, thru scattering timber and undergrowth. Descend 230 ft. over SE. slope.
12.00	Bottom of canyon, course SW. Asc. 370 ft.
24.00	Saddle in rocky ridge, bears NW. and SE. Desc. 470 ft. over NE. slope to
40.00	Set an iron post, 3 ft. long, 1 in.in diam., 12 ins. in the ground to bedrock,and raise a mound of stone, 4 ft. base, around post, for ¼ sec.cor. of sec.19 only, with brass cap mkd.

Survey of Part (Completion) of Subdivision Lines- T.4 S.,R.4 W.

Chains	
	¼ S 19 1931 from which a paloverde, 5 ins. diam., brs. S.81¾°E., 61 lks. dist., mkd. ¼ S19 BT a paloverde, 5 ins. diam., brs. S.21½°W., 93 lks. dist., mkd. ¼ S19 BT Desc. 70 ft. over NE. slope.
46.95	(40.00 chs. W. departure from cor.of secs.17,18,19 & 20) Set an iron post, 3 ft. long, 1 in.in diam., 3 ins. in the ground to bedrock, and raise a mound of stone, 5 ft. base, around post, for ¼ sec.cor. of sec.18 only, with brass cap mkd.
	¼ S 18 1931 from which a paloverde, 5 ins. diam., brs. N.65°E., 68 lks. dist., mkd. ¼ S18 BT a paloverde, 4 ins. diam., brs. N.52½°W., 53 lks. dist., mkd. ¼ S18 BT
53.00	Wash, 50 lks.wide, course NE. Asc. 200 ft.
81.90	Rocky shoulder bulges N. Desc. gradually to
86.95	Intersect the reestablished cor. of secs.17,18,19 & 20.
	Land, mountainous. Soil, rocky, 4th rate. Timber, paloverde,ironwood,and mesquite. Undergrowth, same,with greasewood,cacti,and ocotillo.

FINAL TEST of INSTRUMENT.

The continued satisfactory adjustment of the transit used throughout the resurveys and surveys described in the foregoing field notes is indicated from the field tests of same on March 12,1931 as described in Book "F" of this group.

GENERAL DESCRIPTION.

The portion of T.4 S.,R 4 W. surveyed as described in the foregoing notes lies just west of the Gila River on the east slope of the Gila Bend Mountains, which range terminates within the sections surveyed.

The surface varies from level bottom land to rough mountainous in character.

The soil in the bottom land is sandy,1st and 2nd rate, and the remainder varies from gravelly to rocky, 3rd and 4th rate.

Timber, consisting of mesquite,paloverde,ironwood and catclaw is prevalent in all sections, being dense in the bottom land, and scattering elsewhere.

Undergrowth,consisting of scrub growth of the timber varieties, and greasewood,sagebrush,cacti and ocotillo

is dense over the bottom land, and scattering elsewhere.

The drainage of all of this part of the Tp. is into the Gila River. There are no watercourses carrying a permanent flow of water and no springs. A few wells have been tried in the bottom land, but have produced only salty water. The only water fit for use is obtained from a spring in the NW. quarter of section 20.

No evidence of valuable mineral deposits was found. There are settlers in secs.18,30,and 31, but improvements are meager in character.

U.S.Highway No.80, from Phoenix to Yuma, bears N. and S. thru the central part of this Tp.,east of the Gila River.

The nearest town is Gila Bend,Ariz. about 6 miles S. on the Southern Pacific Railroad.

BOOK 3929

4—680
(August, 1926)

FIELD ASSISTANTS.
to
Karl L. Siebecker, U.S.Surveyor

NAMES.	CAPACITY.
Owen B. Wright	1st Chainman.
L.A.Burgess	2nd Chainman.
John McClung	Cornerman.
A. F. Gray	Flagman.
Calvin McClung	Axeman.

6—2764

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BOOK 3929

CERTIFICATE OF UNITED STATES SURVEYOR.

I, Karl L. Siebecker, U. S. Surveyor, hereby certify upon honor that, in pursuance of special instructions received from the District Cadastral Engineer, for Group 164 Arizona bearing date of the 15th day of July, 1930, I have well, faithfully, and truly in my own proper person, and in strict conformity with said instructions, the Manual of Surveying Instructions, and the laws of the United States, RESURVEYED all those parts or portions of the South Boundary and Subdivision Lines of Township 4 South, Range 4 West and SURVEYED all those parts or portions of the South Boundary, West Boundary and Subdivision Lines of Township 4 South, Range 4 West of the Gila and Salt River Base and Meridian, in the State of Arizona, which are represented in the foregoing field notes and by diagram on page 2 hereof as having been executed by me, and under my direction; and that all the corners of said resurvey and survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the District Cadastral Engineer, for Group 164 Arizona and in the specific manner described in the field notes, and that the foregoing are the original field notes of such resurvey and survey.

Karl L. Siebecker
U. S. Surveyor.
San Francisco, Calif. July 8, 1931

APPROVAL.

OFFICE OF U. S. SUPERVISOR OF SURVEYS,

Denver, Colo., June 14, 1932

The foregoing field notes of the resurvey of Part of the South Boundary, and Part of the Subdivision Lines of Township 4 South, Range 4 West and of the survey of Part (Completion) of the South Boundary, Part (Completion) of the West Boundary, and Part (Completion) of the Subdivision Lines of Township 4 South, Range 4 West of the Gila and Salt River Base and Meridian, in the State of Arizona executed by Karl L. Siebecker, U.S. Surveyor under his special instructions dated July 15, 1930 for Group 164, Arizona, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the resurveys and surveys they describe, are hereby approved.

Dwight L. Johnson
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.~~