

UODR 485

Form 4-679  
(January 1963)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

# FIELD NOTES

\_\_\_\_\_

\_\_\_\_\_

ESTABLISHMENT

\_\_\_\_\_

of

\_\_\_\_\_

POINTS Nos. 20 through 31

\_\_\_\_\_

on the

\_\_\_\_\_

BOUNDARY BETWEEN THE STATES OF ARIZONA AND CALIFORNIA

\_\_\_\_\_

in

\_\_\_\_\_

Townships 8 South, Ranges 22 and 23 West

\_\_\_\_\_

Gila and Salt River Meridian, Arizona

\_\_\_\_\_

Townships 16 South, Ranges 22 and 23 East

\_\_\_\_\_

San Bernardino Meridian, California

\_\_\_\_\_

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

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

## EXECUTED BY

Lester S. Mann, Supervisory Cadastral Surveyor

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\_\_\_\_\_

\_\_\_\_\_

Under special instructions dated February 6, 1964, which provided for the surveys  
402, Arizona  
included under Group Number 459, California, approved February 6, 1964,  
and assignment instructions dated February 7, 1964.

Survey commenced February 10, 1964

Survey completed February 14, 1964

1A

BOOK 4698

# INDEX DIAGRAM

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Establishment of Points Nos. 20 to 31  
on the Boundary between Arizona and California,  
Townships 8 South, Ranges 22-23 West, G&SRM, Arizona  
Townships 16 South, Ranges 22-23 East, SBM, California 13

## CHAINS

The Arizona area involved in this work, Ts8S, Rs22-23W, G&SRM, was surveyed in 1874 by T. F. White. A portion was resurveyed and accretion land surveyed in 1949 by D. R. Averill. Dependent resurveys were made in 1960-61 under the direction of Robert Yundt.

The California area involved in this work, Ts16S, Rs22-23E, SBM, was surveyed in 1856 by John LaCroze. The townships were resurveyed in 1895 by Frank S. Ingalls. A portion was resurveyed and accretion land surveyed in 1949 by D. R. Averill. The townships were dependently resurveyed in 1960-61 under the direction of Robert Yundt.

The following field notes are those of the establishment of Points Nos. 20 through 31 of the Boundary between Arizona and California in Ts8S, Rs22-23W, G&SRM, Arizona, and Ts16S, Rs22-23E, SBM, California, as defined in the Compact between the States, dated March 12, 1963. At the time of these surveys the Compact had not been approved by Congress. In anticipation that the Compact will be approved, all corner points established have been marked with State names in appropriate positions.

The establishment of these points was made in accordance with the Manual of Surveying Instructions, 1947, and the Special Instructions dated February 6, 1964.

The determination of the geodetic position of these points and the survey and description of the Boundary are responsibilities of the United States Coast and Geodetic Survey, as more particularly set out in the Compact.

The magnetic declination was found to be 13°45' East.

Establishment of  
Point No. 20

The Compact describes Point No. 20 as follows:

Point No. 20, which lies on the centerline of the Colorado River where said centerline intersects the section line between Sections 4 and 9, Township 8 South, Range 22 West, Gila and Salt River Meridian; . . . .

Point No. 20 was established in the following manner:

From the WP on the line bet. secs. 4 and 9, T8S, R22W, on the left (east) bank of the Colorado River, which is a regulation iron post, set and marked as described in the record of the 1961 resurveys.

Thence

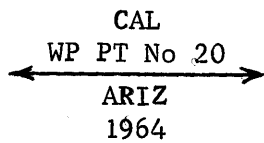
N. 89°53' W., on a projection of the line bet. secs. 4 and 9, across the Colorado River. The distance between the left and right banks is 14.38 chs.; the midpoint or centerline of the river is at 7.19 chs. dist. on this line.

Establishment of Points Nos. 20 to 31  
 on the Boundary between Arizona and California,  
 Townships 8 South, Ranges 22-23 West, G&SRM, Arizona  
 Townships 16 South, Ranges 22-23 East, SBM, California 2

2

CHAINS

It being impracticable to monument Point No. 20 within the river, set an iron post 30 ins. long, 2½ ins. diam., 24 ins. in the ground, in a secure place on top of the right bank, as a witness point on the line bet. Points Nos. 20 and 21, with brass cap mkd.



from which

The true point for Point No. 20, in the center of the river and on the line bet. secs. 4 and 9, bears N. 89°13' E., 8.00 chs. dist.

A cottonwood 16 ins. diam., bears South, 5 lks. dist., mkd. WPPT20BT

A cottonwood 18 ins. diam., bears N. 57° E., 89 lks. dist., mkd. WPPT20BT

The cor. of secs. 14, 15, 22 and 23, T16S, R23E, SBM, California, a 2½ in. iron post as described in the official record, bears N. 26°18' W., 17.85 chs. dist.

Set a 4x4-in. wood post, 6 ft. long, 3 ft. in the ground and alongside iron post.

Establishment of  
 Point No. 21

The Compact describes Point No. 21 as follows:

Point No. 21, which will be the northwest corner of the northeast quarter of Section 8, Township 8 South, Range 22 West, Gila and Salt River Meridian,  
 . . . . .

Point No. 21, being also the ¼ sec. cor. of secs. 5 and 8, T8S, R22W, was established in the following manner:

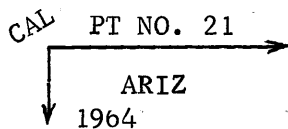
Since all direct evidence of the original ¼ sec. cor. of secs. 5 and 8 has been destroyed by a southerly movement of the Colorado River since the time of the original surveys and the immediate lands are presently surveyed as being within T16S, R23E, San Bernardino Meridian, the point was determined by the projection of existent surveys within T8S, R22W, as shown upon the 1961 official plat, across the area to a theoretical position therefor. The details of this mathematical determination are omitted.

At the point

Set an iron post, 20 ins. long, 2½ ins. diam., 3 ins. below the surface of a road, cap mkd.

Establishment of Points Nos. 20 to 31  
 on the Boundary between Arizona and California,  
 Townships 8 South, Ranges 22-23 West, G&SRM, Arizona  
 Townships 16 South, Ranges 22-23 East, SBM, California 3.

CHAINS



from which

The ¼ sec. cor. of secs. 15 and 22, T16S, R23E, SBM, a 2½ ins. iron post, set and mkd. as described in the official record, bears N. 4°28' E., 16.51 chs. dist.

The true point for Point No. 20 bears N. 89°13' E., 57.29 chs. dist. (Subject to precise determination by C&GS)

A farm road intersection with roads W. and S., bears N. 12°45' E., 41 lks. dist.

Set a 4x4 ins. wood post, 5 ft. long, 30 ins. in the ground, West, 10 lks. dist., mkd. RM PT 21 6.7 FT. E.

Establishment of  
 Point No. 22

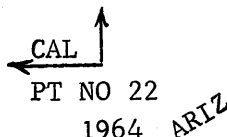
The Compact describes Point No. 22 as follows:

Point No. 22, which is the northeast corner of the southwest quarter of Section 8, Township 8 South, Range 22 West, Gila and Salt River Meridian, . . . . .

The point was determined by the projection of existent surveys within T8S, R22W, as shown on the 1961 official plat, across the area to a theoretical position therefor. The details of this mathematical determination are omitted. The immediate lands are presently surveyed as being within T16S, R23E, San Bernardino Meridian, California.

At the point

Set an iron post 30 ins. long, 2½ ins. diam., 24 ins. in the ground, cap mkd.



from which

An iron pipe, 1½ ins. diam., 8 ins. of it above ground with a railroad tie firmly set alongside, bears N. 51°43' W., 1.09 chs. dist.

An iron pipe, 1 inch diam., 6 ins. of it above ground, bears N. 79°26' E., 1.17 chs. dist.

Establishment of Points Nos. 20 to 31  
 on the Boundary between Arizona and California,  
 Townships 8 South, Ranges 22-23 West, G&SRM, Arizona  
 Townships 16 South, Ranges 22-23 East, SBM, California 4.

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CHAINS

The cor. of secs. 21, 22, 27 and 28, San Bernadino Meridian, California, a 2½ ins. iron post, set, mkd. and witnessed as described in the official notes, bears S. 58°09' W., 45.45 chs. dist.

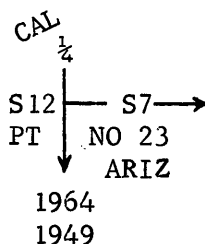
Point No. 21 bears North 39.78 chs. dist. (Subject to precise determination by the C&GS)

Establishment of  
 Point No. 23

The Compact describes Point No. 23 as follows:

Point No. 23, which is the west quarter corner of Section 7, Township 8 South, Range 22 West, Gila and Salt River Meridian, . . . .

The west quarter corner of sec. 7 is monumented by an iron post as described in the official record of the 1949 survey; added marks to brass cap to read



from which

Point No. 22 bears N. 89°28' E., 118.74 chs. dist. (Subject to precise determination by C&GS)

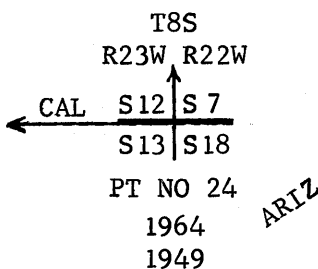
A railroad tie has been set alongside the iron post and both are under an electric high line bearing N. and S. in cultivated land.

Establishment of  
 Point No. 24

The Compact describes Point No. 24 as follows:

Point No. 24, which is the southwest corner of Section 7, Township 8 South, Range 22 West, Gila and Salt River Meridian, . . . .

The southwest corner of sec. 7 is monumented by an iron post as described in the official record of the 1949 survey; added marks to brass cap to read



Establishment of Points Nos. 20 to 31  
on the Boundary between Arizona and California,  
Townships 8 South, Ranges 22-23 West, G&SRM, Arizona  
Townships 16 South, Ranges 22-23 East, SBM, California 5.

CHAINS

from which

Point No. 23 bears N. 0°01' W., 40.00 chs. dist.  
(Subject to precise determination by C&GS)

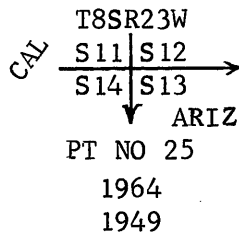
Point is under an electric high line bearing N. and S.  
and in cultivated land.

Establishment of  
Point No. 25

The Compact describes Point No. 25 as follows:

Point No. 25, which is the southwest corner of  
Section 12, Township 8 South, Range 23 West, Gila  
and Salt River Meridian, . . . . .

The southwest corner of sec. 12 is monumented by an  
iron post set in concrete, 10 ins. below the surface  
of the ground, 2 lks. W. of a fencepost; added marks  
to brass cap to read



from which

Point No. 24 bears East, 80.04 chs. dist. (Subject  
to precise determination by C&GS)

Set a 4x4 ins. wood post, 5 ft. long, 2 ft. in ground,  
alongside iron post, on E. side of a field road in  
cultivated land.

This iron post no longer functions as the monument  
for the cor. of secs. 11, 12, 13 and 14. (See cancella-  
tion of surveys in T8S, R23W.)

Establishment of  
Point No. 26

The Compact describes Point No. 26 as follows:

Point No. 26, which is the west quarter corner  
of Section 13, Township 8 South, Range 23 West,  
Gila and Salt River Meridian, . . . . .

The west quarter corner of sec. 13 is monumented by a  
badly bent 2-in. iron post, firmly set, brass cap gone.

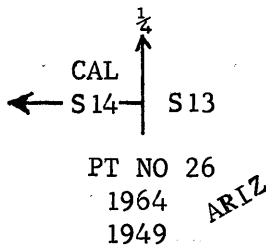
At the cor. point

Set an iron post 30 ins. long, 2½ ins. diam., 12 ins.  
below surface of road, roads N-S-E, cap mkd.

Establishment of Points Nos. 20 to 31  
 on the Boundary between Arizona and California,  
 Townships 8 South, Ranges 22-23 West, G&SRM, Arizona  
 Townships 16 South, Ranges 22-23 East, SBM, California 6.

6

CHAINS



from which

An iron pipe, 1½ ins. diam., 3 ft. of it above ground, marks pipe line crossing, bears S. 7°45' E., 0.52 chs. dist.

Point No. 25 bears N. 0°01' W., 40.00 chs. dist. (Subject to precise determination by C&GS)

Set a 4x4 ins. wood post, 5 ft. long, 2 ft. in the ground and alongside iron post, in "Y" of roads in cultivated land.

Establishment of  
 Point No. 27

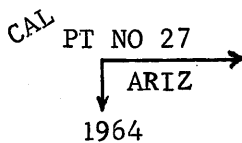
The Compact describes Point No. 27 as follows:

Point No. 27, which lies on the east shoulder of the north-south road through the Indian School approximately 370 feet due East of the northwest corner of the southwest quarter of the southwest quarter of Section 25, Township 16 South, Range 22 East, San Bernardino Meridian, . . . . .

Point No. 27 was established on a line due East from the northwest corner of the southwest quarter of the southwest quarter of sec. 25, where it intersects the east shoulder of the N-S road through the Indian School.

At the point

Set an iron post 30 ins. long, 2½ ins. diam., 28 ins. in the ground, cap mkd.



from which

Point No. 26 bears N. 88°43' E., 155.58 chs. dist. (Subject to precise determination by C&GS)

The point for the northwest corner of the southwest quarter of the southwest quarter of sec. 25 bears West, 3.57 chs. dist. (not monumented).

Set a 4x4 ins. wood post, 4 ft. long, 45 ins. in the ground and alongside the iron post, on the steep east shoulder of a winding N-S road, 1 ft. E. of black top of road.



Establishment of Points Nos. 20 to 31  
on the Boundary between Arizona and California,  
Townships 8 South, Ranges 22-23 West, G&SRM, Arizona  
Townships 16 South, Ranges 22-23 East, SBM, California 7.

CHAINS

Establishment of  
Point No. 28

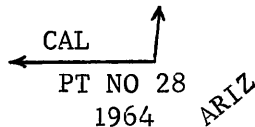
The Compact describes Point No. 28 as follows:

Point No. 28, which lies on the easterly shoulder  
line of said north-south road due East of the  
northeast corner of the stone retaining wall around  
the Indian School Hospital, . . . . .

Point No. 28 was established on a line due East of the  
northeast corner of the stone retaining wall around  
the Indian School Hospital at its intersection with the  
easterly shoulder of the winding N-S road through the  
Indian School.

At the point

Set an iron post 30 ins. long, 2½ ins. diam., 28 ins.  
in the ground, cap mkd.



from which

Point No. 27 bears N. 2°58' E., 6.95 chs. and  
N. 19°07' W., 3.98 chs. (Subject to precise  
determination by C&GS)

The NE. cor. of the stone retaining wall around  
the Indian School Hospital bears West, 44 lks.  
dist.

Set a 4x4 ins. wood post, 4 ft. long, 45 ins. in the  
ground and alongside iron post, on E. shoulder of  
winding N-S road, 1 ft. E. of black top on road.

Establishment of  
Point No. 29

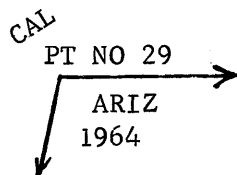
The Compact describes Point No. 29 as follows:

Point No. 29, which is the base of the northeast  
corner of said retaining wall, . . . . .

Point No. 29 was established at the base of the  
northeast corner of the retaining wall around the  
Indian School Hospital grounds, on the west side of  
the N-S winding road through the Indian School, 3 ft.  
west of the black top on the road.

At the point

Set an iron post 30 ins. long, 2½ ins. diam., 26 ins.  
in the ground, cap mkd.



Establishment of Points Nos. 20 to 31  
 On the Boundary between Arizona and California,  
 Townships 8 South, Ranges 22-23 West, G&SRM, Arizona  
 Townships 16 South, Ranges 22-23 East, SBM, California 8.

8

CHAINS

from which

Point No. 28 bears East, 0.43 chs. dist. (Subject to precise determination by C&GS)

Set a 4x4 ins. wood post, 5 ft. long, 2 ft. in the ground and alongside the iron post.

Establishment of  
 Point No. 30

The Compact describes Point No. 30 as follows:

Point No. 30, which lies on the westerly shoulder line of said north-south road 330 feet south of and approximately 110 feet east of the northeast corner of Section 35, Township 16 South, Range 22 East, San Bernardino Meridian, . . . . .

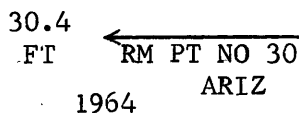
Point No. 30 was established 330 feet south of and 79.2 feet east of the northeast corner of Section 35, Township 16 South, Range 22 East, San Bernardino Meridian, California, and on the W. side of overpass for road.

At the point

Drive a roofing nail with flagging in the lower plate of the overpass, mark plate to south of nail, PT NO 30

from which

Set an iron post 30 ins. long, 2½ ins. diam., 28 ins. in the ground, East, 0.46 chs. dist. cap mkd.



Point No. 29 bears N. 17°54' E., 3.01 chs., N. 2°30' E., 6.70 chs., and N. 16°40' E., 5.00 chs.

R.M. is on the E. shoulder of N-S road, approximately 10 ft. north of overpass with a 4x4 ins. wood post, 6 ft. long, set 2 ft. in ground alongside the iron post.

Establishment of  
 Point No. 31

The Compact describes Point No. 31 as follows:

Point No. 31, which lies on the east line of Section 35, Township 16 South, Range 22 East, San Bernardino Meridian, exactly 330 feet south of the northeast corner of said Section 35, . . .

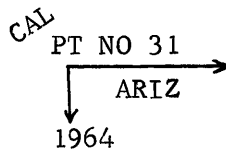
Point No. 31 was established on the line between sections 35 and 36, T16S, R22E, SBM, California, 5.00 chs. (330 ft.) S. 0°01' E., from the cor. of secs. 25, 26, 35 and 36, a 2-in. iron post as described in the official record.

Establishment of Points Nos. 20 to 31  
 on the Boundary between Arizona and California,  
 Townships 8 South, Ranges 22-23 West, G&SRM, Arizona  
 Townships 16 South, Ranges 22-23 East, SBM, California 9.

CHAINS

At the point

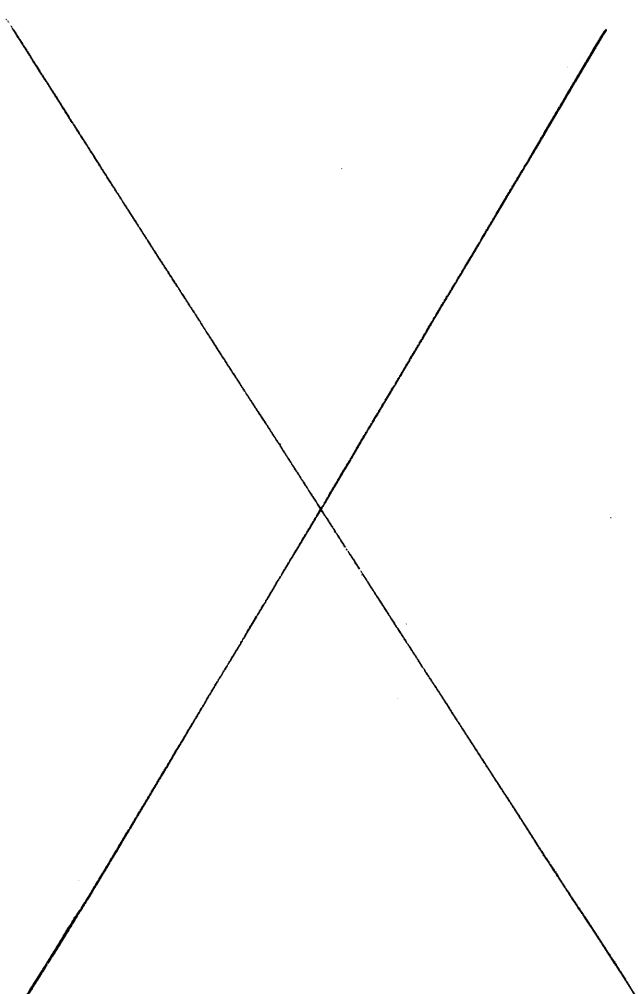
Set an iron post 30 ins. long, 2½ ins. diam., flush with surface of a paved road around old depot, cap mkd.



from which

Point No. 30 bears East, 1.20 chs. dist. (Subject to precise determination by C&GS)

Point No. 31 is in the center of the abandoned paved road around the east side of abandoned depot, and approximately 60 lks. SW. of the Santa Fe railroad tracks.





CERTIFICATE OF SURVEY

I, Lester S. Mann, HEREBY CERTIFY upon honor that, in pursuance of special instructions bearing date of the 6th day of February, 1964, I have established Points Nos. 20 through 31 on the Arizona-California Boundary within Ts8S, Rs22 and 23W, Gila and Salt River Meridian, Arizona, and Ts16S, Rs22 and 23E, San Bernardino Meridian, California

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 special instructions, the Manual of Instructions for the Survey of the Public Lands of the United States, and in specific manner described in the foregoing field notes.

February 17, 1964 (Date)

Lester S. Mann Supervisory (Cadastral Surveyor)

(Date)

(Cadastral Surveyor)

CERTIFICATE OF APPROVAL Bureau of Land Management

The foregoing field notes of the establishment of Points Nos. 20 through 31 on the Arizona-California Boundary within Ts8S, Rs22 and 23W, Gila and Salt River Meridian, Arizona, and Ts16S, Rs22 and 23E, San Bernardino Meridian, California

executed by Lester S. Mann, Supervisory Cadastral Engineer having been critically examined and found correct, are hereby approved.

Washington, D. C. APR 6 1964 (Date)

Chief, Division of Engineering NES

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.

(Date)

(Chief, Division of Engineering)