UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

Original

FIELD NOTES

of the

Resurvey of a Portion of the East Boundary,
a Portion of the South Boundary,
and the
Survey of a Portion of the West Boundary
and a
Portion of the Subdivision
of
Township 4 South, Range 22 East

· · · · · · · · · · · · · · · · · · ·
Of theGila and Salt River Meridian,
In the State ofArizona
EXECUTED BY
Donald E. Harding - Cartographer-Cadastral

Under special instructions datedNovember 10, 19_54, which provided
for the surveys included under Group No. 297 approved November 10, 1954
and assignment instructions dated, November 17, 19.54
Survey commenced November 29 , 1954

BOOK 4485

INDEX DIAGRAM

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	2		3			4						

16--56770-1

Chains

-678 b

The south boundary of sec. 36 and a portion of the south boundary of sec. 35 were surveyed by C. H. Wallace in 1888. The balance of the south boundary was surveyed by Philip Contzen in 1900. The east boundary was originally surveyed by T. F. White in 1875 and partially resurveyed by L. D. Chillson in 1894 and partially by Ty White in 1951. Portions of the boundary of the San Carlos Indian Reservation (formerly White Mountain) was surveyed by Philip Contzen in 1898 and H. L. Baldwin in 1915. Special instructions provide for the surveys in which the State of Arizona has vested rights.

The survey was executed with light mountain solar transits made by Buff and Buff, Serial No. 16724 and W. and L. E. Gurley, Serial No. 461263, constructed in accordance with standard instrumental specifications of the Bureau of Land Management. Horizontal circle is $4\frac{1}{2}$ inches in diameter with two double opposite verniers reading to single minutes. Vertical circle is 4 inches in diameter with one double vernier reading to single minutes. The instrument is equipped with an improved telescopic solar attachment, radii of latitude arc 3 inches and of declination arc $3\frac{1}{2}$ inches with vernier reading to single minutes. The instruments were in good condition and were placed in proper adjustment prior to the beginning of the survey.

The direction of all lines was determined by the direct solar method, solar method, and from Coast and Geodetic Triangulation Stations, and the measurements made by a Lufkin steel tape, 5 chains in length, graduated every one tenth link for the first 10 links, every link for the next 90 links, and every 10 links for the balance. The tape was tested by comparison with a standard tape and found correct. Measurements were made on the slope, and the vertical angle of each interval was ascertained by a clinometer in good adjustment. The horizontal equivalents only are entered in this field note record.

The transits were checked from time to time on the camp meridian which was established from Thomas Coast and Geodetic Triangulation Station, and the azimuth of the lines was checked by direct solar method as the survey progressed. The geographic position of the southeast corner of the township is latitude 33°02'10" N. and longitude 110°02'05" W. The magnetic declination is 14°15' E.

Resurvey of a Portion of the East Boundary

From the cor. of secs. 1, 6, 7, and 12, on the east boundary of the township, set and marked as described in the official record.

N. 0° 09' W., bet. secs. 1 and 6.

Asc. 54 ft. over S. slope.

33.70° Wash, 30° lks. wide, 3°ft. deep, course SW.; asc. 29 ft. over SW. slope.

The \(\frac{1}{4}\) sec. cor. of secs. 1 and 6, which is marked with a conglomerate stone, 18x10x8 ins., properly marked and set as described in the official record.

At the cor. point.

Set an iron post, 28 ins. long, $2\frac{1}{2}$ ins. diam., 14 ins. in the ground, and in a mound of stone to top, with brass cap mkd.

 $\begin{array}{c|c}
 & \overline{4} \\
 & \overline{4} \\
 & \overline{1954}
\end{array}$

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

BOOK 4485

Resurvey of the East Boundary, T. 4 S., R. 22 E.

		Resurvey of the East Boundary, T. 4 S., R. 22 E.
	Chains	Ĉ.
		N. 0° 09' W., beginning new measurement.
	7	Asc. 46 ft. over S. slope.
	7.20	Ridge, bears NE. and SW.; over W. slope.
	20.00	Wash, 20 lks. wide, 6 ft. deep, course SSW.
	27.10	Fence, bears NNE. and SSW.
	37.10	Wash, 20 lks. wide, 3 ft. deep, course SW.; asc. 29 ft. over SE.
	39.94	The cor. of secs. 1, 6, 31, and 36, Ts. 3 and 4 S., Rs. 22 and 23 E.,
	· • •	monumented with a granite stone, 16x10x6 ins., properly marked and set as described in the official record.
	• •	At the cor. point.
	1. 1.	Set an iron post, 28 ins. long, 2 ins. diam., 10 ins. in the ground, and in a mound of stone to top, with brass cap marked
	*.	n du comercidad na comba e como de la comba de comba e
		T3S R22E R23E
		S36 S31
ŧ.		S1 S6
	• :	1054
•		1954 - 1
	,	Land, rolling.
	*	Soil, sandy and rocky clay.
		Timber, none.
		Undergrowth, greasewood, cacti, and grass.
	• '	
		Resurvey of a Portion of the South Boundary
		From the cor. of Ts. 4 and 5 S., Rs. 21 and 22 E., which is mon-
	•	umented with a granite stone, 16x8x8 ins., properly marked and set as described in the official record.
		At the cor. point.
		Set an iron nost 28 ing long 21 ing diam 20 ing
		Set an iron post, 28 ins. long, $2\frac{1}{2}$ ins. diam., 20 ins. in the ground, with brass cap marked
		. T4\$20
	,	R21E R22E
	•	S36 S31
		. S1 S6
		T5S
		, 1955 ,
	پ∵ ۽ د	Raise a mound of stone, 3 ft. base, 2 ft. high, S. of cor.
	i j	N. 89° 59' E., bet. secs. 6 and 31.
		Desc. over gentle E. slope.
	16.00	Road, track, bears NE. and S. 87° W.
	39.50	The 4 sec. cor. of secs. 6 and 31, which is monumented with a granite stone, 12x10x6 ins., properly marked and set as described in the official record.
		At the cor. point.
		Set an iron post, 28 inc. long 2± inc. 31 am 10 inc.
		Set an iron post, 28 ins. long, $2\frac{1}{2}$ ins. diam., 18 ins. in the ground, with brass cap marked

Resurvey of the South Boundary, T. 4 S., R. 22 E.

*	
Chains	
	$\frac{1}{4}$ $\frac{831}{86}$
	1955
, ž.	Raise a mound of stone, 2 ft. base, l_{2} ft. high, N. of cor.
	N. 89° 43° E., beginning new measurement.
6.50	Road, track, bears NNE. and SSW.
6.80	Water well with pumpjack, bears south, 1.50 chs. dist.
31.30	Road, track, bears N. 85° E. and S. 85° W.
37.40	Small wash, course ENE.
40.16	The cor. of secs. 5, 6, 31; and 32, monumented with a granite stone, 14x8x6 ins., properly marked and set as described in the official record.
	At the cor. point.
	Set an iron post, 28 ins. long, $2\frac{1}{2}$ ins. diam., 20 ins. in the ground, with brass cap mkd.
	T4SR22E
	S31 S32 S6 S5
	T5S · 1955
· ·	Raise a mound of stone, 3 ft. base, 2 ft. high; W. of cor.
	Lend, rolling.
	Soil, sandy and gravelly clay.
	Timber, none. Undergrowth, scattered mesquite, greasewood, and grass.
	N. 89° 46' E., bet. secs. 5 and 32.
•	Over rolling land, through scattered brush.
20.20	Road, track, bears NE. and SW.
40.00	The $\frac{1}{4}$ sec. cor. of secs. 5 and 32, monumented with a granite stone, $12x8x6$ ins., properly marked and set as described in the official record.
	At the cor. point.
	Set an iron post, 28 ins. long, $2\frac{1}{2}$ ins. diam., 18 ins. in the ground, with brass cap mkd.
	$\frac{1}{4} \frac{S 32}{S,5}$
	1955
	Raise a mound of stone, 3 ft. base, 2 ft. high, N. of cor.
	N. 89° 45 'E., beginning new measurement.

· . . . Resurvey of the South Boundary, T. 4 S., R. 22 E.

	Chains	
		Descending over gentle E. slope.
	34.00	Road, track, bears SE. and NW.
	40.01,	Point for the cor. of secs. 4, 5, 32, and 33 at proportionate distance. There is no remaining evidence of original cor.
		Set an iron post, 28 ins. long, $2\frac{1}{2}$ ins. diam., 20 ins. in the ground, with brass cap mkd.
		· Andrew Community of the Community of t
		\$32 \S33 \\ \S5 \S4
		. 1
		Raise a mound of stone, 3 ft. base, $2\frac{1}{2}$ ft. high, W. of cor.
		Land, low and rolling.
		Soil, sandy and gravelly clay.
		Timber, none.
		Undergrowth, scattered mesquite, greasewood, and grass.
		N. 89° 45° E., between secs. 4 and 33.
		Over gravel bench.
	3.80	Small wash, course SE.
,	40.01	The $\frac{1}{4}$ sec. cor. of secs. 4 and 33, monumented with a granite stone, $14x14x10$, properly marked and set as described in the official
	-	record. At the cor. point.
		Set an iron post, 28 ins. long, 2½ ins. diam., 18 ins. in the
		ground, with brass cap mkd.
		$\frac{1}{4}$ $\frac{\$}{\$}$ $\frac{33}{\$}$
		1955
		Raise a mound of stone, 3 ft. base, $2\frac{1}{2}$ ft. high, N. of cor.
		Land, low and rolling.
		Soil, sandy and gravelly clay. Timber, none; undergrowth, scattered mesquite, greasewood, and grass.
•		
		Survey of the West Boundary, T. 4 S., R. 22 E.
		From the cor. of Ts. 4 and 5 S., Rs. 21 and 22 E., heretofore described.
		North, between secs. 31 and 36.
		Over low rolling ridges, through scattered brush.
	9•60	Wash, 20 lks. wide, 2 ft. deep, course E.
	19.60	Wash, 10 lks. wide, l'ft. deep, course ESE.
	40.00	Point for the $\frac{1}{4}$ sec. cor. of secs. 31 and 36.
		Set an iron post, 28 ans. long, $2\frac{1}{2}$ ins. diam., 20 ins. in the ground, with brass cap mkd.

West Boundary, T. 4 S., R. 22 E.

	West Boundary, T. 4 S., R. 22 E.
Chains	
	. s36 s31
	1955
	Deposit broken glass alongside the post, for witness.
42.50	Road, track, bears SE. and NW.
43.50	Wash, 10 lks, wide, 2 ft, deep, course NE.
76.80	Road, track, bears NE. and SW.
80.00	Point for the cor. of secs. 25, 30, 31, and 36.
	Set an iron post, 28 ins. long, $2\frac{1}{2}$ ins. diam., 20 ins. in the ground, with brass cap mkd.
	T4S R21E R22E S25 S30 S36 S31 1955
	Raise a mound of stone, 3 ft. base, $2\frac{1}{2}$ ft. high, W. of cor.
	Land, low and rolling. Soil, sandy and gravelly clay. Timber, none. Undergrowth, scattered mesquite, greasewood, and grass.
	North, bet. secs. 25 and 30.
	Over low rolling ridges, through scattered brush.
2.90	Road, track, bears NNE. and SSW.
9.10	Road; track; bears SE. and NW.
30.57	Intersect the south boundary of the San Carlos Indian Reservation.
	Point for the closing cor. of secs. 25 and 30.
	Set an iron post, 28 ins. long, $2\frac{1}{3}$ ins. diam., 18 ins. in the ground, with brass cap mkd.
	S25 S30 R21E R22E
	C C T4S 1955
	Raise a mound of stone, 3 ft. base, $2\frac{1}{2}$ ft. high, S. of cor.
•	From this point, the true point for the 5 mile cor. of the San Carlos Indian Reservation bears N. 79° 20° W., 13.86 chs. dist. Its witness cor. bears N. 79° 20° W., 2.00 chs. dist. from the true point and is monumented with a granite stone, 10x10x7 ins., above ground, marked and witnessed as described in the official record.

U. S. GOVERNMENT PRINTING OFFICE 16-28520-1

Soil, sandy and gravelly clay.
Timber, none; undergrowth, scattered mesquite, greasewood and grass.

Land, low and rolling.

Partial Subdivision,	T.	4	s.	R.	22	E.
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	(3)	
	Chains	From the cor. of secs. 1, 2, 11, and 12, which is monumented with an iron post, set and marked as described in the official record.
		N. 0° 19' W., bet. secs. 1 and 2.
		Over rolling hills, through scattered brush.
		Asc. 43 ft. over S. slope.
	13.00	Spur, slopes W.; desc. 19 ft. over NNW. slope.
	16.10	Wash, 10 lks. wide, 3 ft. deep, course SSW.; asc. 111 ft. over SSW. slope.
	40.00	Point for the $\frac{1}{4}$ sec. cor. of secs. 1 and 2.
		Set an iron post, 28 ins. long, $2\frac{1}{3}$ ins. diam., 8 ins. in the ground, and in a mound of stone to top, with brass cap mkd.
		\frac{1}{4}
		s ₂ s ₁
		1954
	40.50	Top of knoll; desc. 69 ft. over N. slope.
	47.20	Road, track, bears NE. and SW.
	57.00	Fence, bears E. and W.
(h)	65.00	Wash, 30 lks. wide, 3 ft. deep, course SSE.
	77.40	Road, track, bears NNE. and SSW.
	79.66	The cor. of secs. 1, 2, 35, and 36, on the north boundary of the township.
		Iand, rolling hills. Soil, sandy and gravelly clay. Timber, none. Undergrowth, scattered mesquite, greasewood, cacti, and grass.
•		
		From the cor. of secs. 4, 5, 32, and 33, on the south boundary of the township, heretofore described.
		N. 0° 02' W., bet. secs. 32 and 33.
		Over low rolling ridges, through scattered brush.
	40.00	Point for the ½ sec. cor. of secs. 32 and 33.
		Set an iron post, 28 ins. long, $2\frac{1}{2}$ ins. diam., 18 ins. in the ground, with brass cap mkd.
		.
		\$32 \ \$33 ·
		1955
		Deposit broken glass alongside the iron post, for witness.
	68.70	Wash, 20 lks. wide, 2 ft. deep, course SE.
•	/	

, Partial Subdivision, T. 4 S., R. 22 E.

		. , Partial Subdivision, T. 4 S., R. 22 E.
	Chains	
	79 .97	Fence, bears N. 79° 10' W. and S. 79° 10' E.
	80 •00	Point for the cor. of secs. 28, 29, 32, and 33.
		Set an iron post, 28 ins. long, 2½ ins. diam., 20 ins. in the ground, with brass cap mkd.
•	• •	T4SR22E S29 S28 S32 S33 1955
		Deposit broken glass alongside the iron post, for witness.
		Land, low and rolling. Soil, sandy and gravelly clay. Timber, none. Undergrowth, scattered mesquite, greasewood, and grass.
	•	
		N. 0° 02° W., bet. secs. 28 and 29.
	•14	Intersect the south boundary of the San Carlos Indian Reservation.
		Point for the closing cor. of secs. 28 and 29.
		Set an iron post, 28 ins. long, $2\frac{1}{2}$ ins. diam., 20 ins. in the ground, with brass cap mkd.
		S C I P
•	·	S29 S28 C C C
		Deposit broken glass alongside the iron.post, for witness.
		From this point the 3 mile cor. of the San Carlos Indian Reservation bears N. 79° 21° W., 15.71 chs. dist., and is monumented with a granite stone, 18x8x6 ins., above ground, marked and witnessed as described in the official record.
	_	
	•	From the cor. of secs. 8, 6, 31, and 32, on the south boundary of the township, heretofore described.
		N. 0° 03' W., bet. secs. 31 and 32.
		Over low rolling ridges, through scattered brush.
	11.80	Wash, 20 lks. wide, 2 ft. deep, course NE.
,	40.00	Point for the $\frac{1}{4}$ sec. cor. of secs. 31 and 32.
		Set an iron post, 28 ins. long, $2\frac{1}{2}$ ins. diam., 18 ins. in the ground, with brass cap mkd.
	·	· · · · · · · · · · · · · · · · · · ·
		s 31 s 32
		1955
	1	1

Raise a mound of stone, 3 ft. base, $2\frac{\bot}{2}$ ft. high, W. of cor.

2	Partial:	Subdivi	sion.	r. 4	S	R.	22	E.
	_ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~				~,		~~	~ •

	Partial: Subdivision, T. 4 S., R. 22 L.
Chains	
47.90	Wash, 10 lks. wide, 2 ft. deep, course E.
51.60	Ridge, low and flat, bears E. and W.
80 •00	Point for the cor. of secs. 29, 30, 31, and 32.
	Set an iron post, 28 ins. long, $2\frac{1}{2}$ ins. diam., 18 ins. in the ground, with brass cap mkd.
	T4SR22E <u>S30</u> S29 <u>S31</u> S32 1955
	Deposit broken glass alongside the iron post, for witness.
	Land, low and rolling. Soil, sandy and gravelly clay. Timber, none. Undergrowth, scattered mesquite, cacti, and grass.
,	
	From the cor. of secs. 28, 29, 32, and 33.
	S. 89° 50° W., bet. secs. 29 and 32.
	Over low rolling ridges, through scattered brush.
•20	Fence, bears ESE. and WNW.
12.50	Ridge, low and flat, bears NE. and SW.
16.40	Wash, 20 lks. wide, 1 ft. deep, course NE.
40.03	Point for the $\frac{1}{4}$ sec. cor. of secs. 29 and 32.
	Set an iron post, 28 ins. long, $2\frac{1}{2}$ ins. diam., 20 ins. in the ground, with brass cap mkd.
	1955 1955
	Deposit broken glass alongside the iron post, for witness.
80.06	The cor. of secs. 29, 30, 31; and 32.
	Land, low and rolling. Soil, sandy and gravelly clay. Timber, none. Undergrowth, scattered mesquite, cacti, and grass.
	onder growing bedeeted mentalized, seed of the growing and growing
,	S. 89° 50' W., bet. secs. 30 and 31.
	Over rolling ridges, through scattered brush.
8.60	Wash, 20 lks. wide, 1 ft. deep, course NE.
15.00	Ridge, low and flat, bears NE. and SW.
40.00	Point for the $\frac{1}{4}$ sec. cor. of secs. 30 and 31.

BOOK 4485

Partial Subdivision, T. 4 S., R. 22 E.			
Chains			
	Set an iron post, 28 ins. long, $2\frac{1}{2}$ ins. diam., 20 ins. in the ground, with brass cap mkd.		
	$\frac{1}{4} \frac{\text{S } 30}{\text{S } 31}$		
	1955		
	Deposit broken glass alongside the iron post, for witness.		
79.28	The cor. of secs. 25, 30, 31, and 36, on the west boundary of the township, heretofore described.		
•	Land, low and rolling. Soil, sandy and gravelly clay. Timber, none.		
	Undergrowth, scattered mesquite, cacti, and grass.		
	From the cor. of secs. 29, 30, 31, and 32.		
	N. 0° 03' W., bet. secs. 29 and 30.		
	Over low rolling ridges, through scattered brush.		
6.70	Wash, 10 lks. wide, 2 ft. deep, course E.		
15.33	Intersect the south boundary of the San Carlos Indian Reservation.		
	Point for the closing cor. of secs. 29 and 30.		
	Set an iron post, 28 ins. long, $2\frac{1}{2}$ ins. diam., 20 ins. in the ground, with brass cap mkd.		
	S30 S29		
	СС		
	T4SR22E 1955		
	_ a		

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

From this point, the $3\frac{1}{2}$ mile cor. of the San Carlos Indian Reservation bears S. 79° 21' E., 25.76 chs. dist., and is monumented with a granite stone, 10x10x8 ins., above ground, marked and witnessed as described in the official record.

General Description

The south part of this partial township is rolling ridges, with scattered brush and fair grass. Part of the east portion is good farming land, lying in the bottom of the Gila River Valley. The main crops are cotton, alfalfa, and small grains, irrigated either from the Gila River or by wells. They have a long growing season due to the low elevation, about 2800 ft. above sea level.

000K<u>4485</u>

4-680 (Feb., 1950)

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

FIELD ASSISTANTS

NAMES	CAPACITY		
George M. Boofer	Instrument man		
Donald A. Cannon	Note-keeper		
Wade B. Betenson	Chainman		
Maurice Hinton	Truck Driver		
Thomas Judd	Flagman		
• 			
·			

16---53565-2

CERTIFICATE OF CADASTRAL ENGINEER

I,	Donald E. Harding	HEREBY CERTIFY upon honor that, in
pursuance of special	instructions bearing date of the	2 10th day of November ,1954,
I have supposed res	surveyed a portion of the	e east boundary and a portion of the south
boundary and surv	veyed a portion of the wes	et boundary and a portion of the
subdivision of To	ownship 4 South, Range 22	East and the second sec
	12.53.4.2.7	Σ
		:
of the G&SR	Meridian, in the State of	Arizona, which are
represented in the fo	oregoing field notes as having be	en executed by me and under my direction; and that
said survey has been	made in strict conformity with	a said instructions, the Manual of Instructions for the
Survey of the Public	Lands of the United States, ar	nd in the specific manner described in the foregoing
field notes.	and the second of the second o	
Salt Lake City.	Utah	Donald E. Harding
June 21, 1955		Cartographer-Cadastral
	CERTIFICATE	OF APPROVAL
		BUREAU OF LAND MANAGEMENT,
		Washington, D. C.,
		rvey of a portion of the east boundary and
a portion of the	south boundary, and the	survey of the east boundary and a portion
of the subdivisi	on of Township 4 South, R	ange 22 East, Gila and Salt River Meridian,
Arizona		
executed by	Donald E. Harding	
having been critical	ly examined and found correct,	are hereby approved.
		Zar J. Kartugly
१८८ व्यक्ति सम्बद्धाः १		Cadastral Engineering Staff Officer
	·	
***	CERTIFICATE (OF TRANSCRIPT
I CERTIFY that t	he foregoing transcript of the t	ield notes of the above-described surveys in
	, is a true copy of the	original field notes.
		Chief, Division of Cadastral Engineering