

3702

Book "E"

4-679

BOOK 3702

# FIELD NOTES

OF THE SURVEY OF THE

East boundary of

TOWNSHIP 9 SOUTH, RANGE 18 EAST,

Of the Gila and Salt River Base and Meridian,

In the State of Arizona.

EXECUTED BY

Theodore Vander Meer,

U. S. Transitman,

In the capacity of U. S. Surveyor, under Special Instructions dated October 24, 1923, issued by the United States Surveyor General to govern surveys included in Group No. 125, Arizona, which were approved by the Commissioner of the General Land Office, November 3, 1923, and Assignment Instructions dated November 16, 1923.

Survey commenced January 19, 1924.

Survey completed January 20, 1924.

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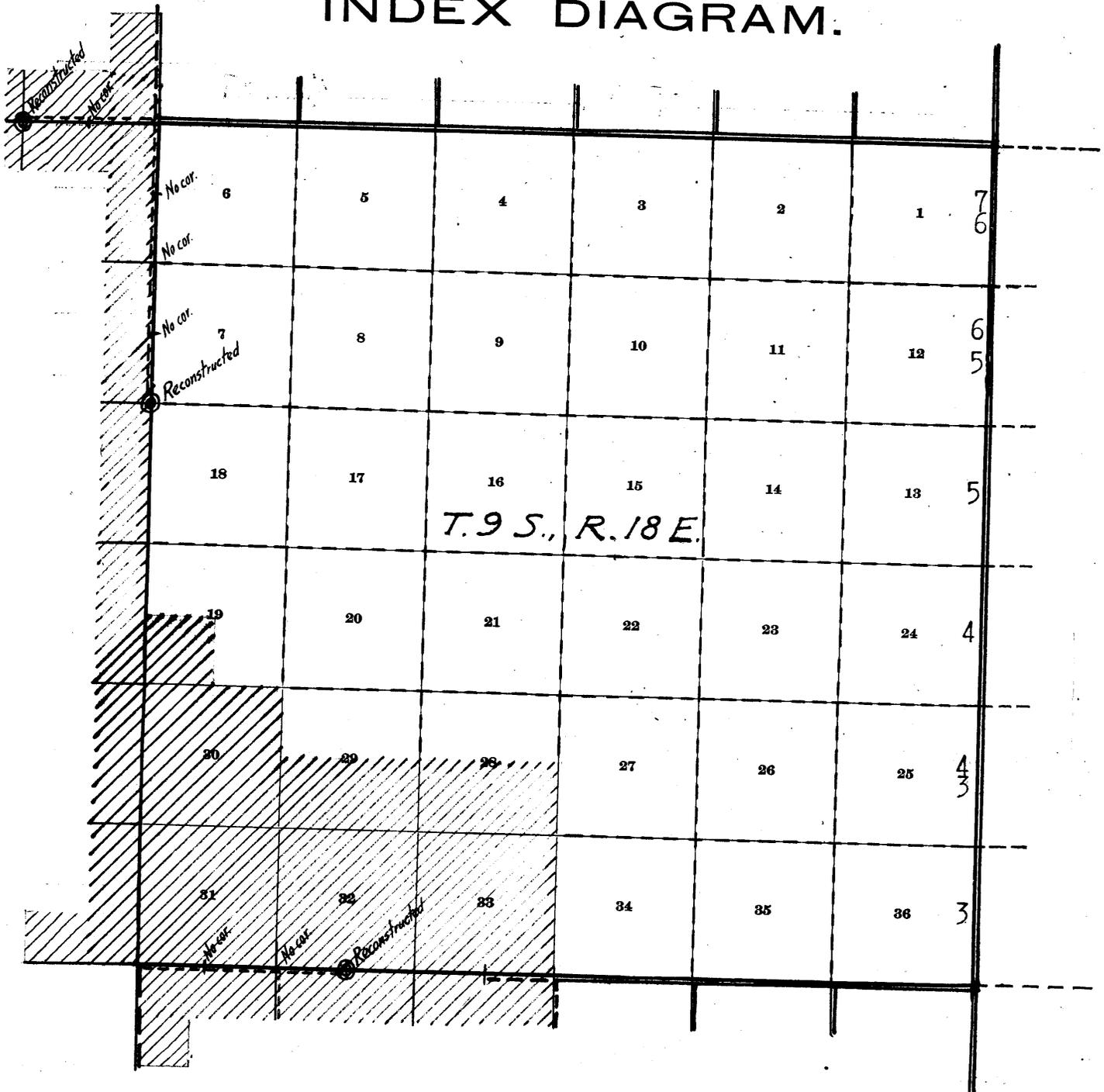
114

Book "E"

Group 125 - - Arizona.

BOOK 3702

# INDEX DIAGRAM.



-  Lines surveyed under this group.
-  Lines resurveyed under this group.
-  Accepted surveys.
-  Unsurveyed.
-  Areas surveyed as per accepted plats on file.
-  Random and trial lines used in reestablishing missing cor. monuments.

BOOK 3702

Book "E"

Group 125 - - Arizona.

Township 9 South, Range 18 East.

DATE DIAGRAM  
1924.

For dates of survey of this line, see Book "F."

6	5	4	3	2	1	1-20
7	8	9	10	11	12	1-19
18	17	16	15	14	13	1-19
19	20	21	22	23	24	1-19
30	29	28	27	26	25	1-19
31	32	33	34	35	36	1-19

For dates of resurvey and survey of this line, see Book "D."

- Indicates lines surveyed by Theodore Vander Meer, U.S. Transitman, on dates shown thereon.
- Indicates lines resurveyed or surveyed under this group, notes in other books.
- Indicates accepted surveyed lines.
- Indicates unsurveyed lines.

Surveys herein described were executed on dates shown on diagram on page 1 hereof, by Theodore Vander Meer, U.S. Transitman, using Buff and Buff Light mountain transit No. 9208, equipped with a full vertical circle and Smith solar attachment. All azimuth determinations were accomplished with the solar attachment.

Jan. 18, 1924: At camp near center of sec. 21, T. 10 S., R. 18 E., G. & S. R. B. & M., Arizona; latitude,  $32^{\circ}32'55''$  N., longitude,  $110^{\circ}30'28''$  W., examine the adjustments of the transit and find no errors; then, to test the solar apparatus, by comparing its indications resulting from observations made during a.m. and p.m. hours with a meridian determined by Polaris observation at this station on Jan. 13, 1924, as described in Book "D," proceed as follows:

At 8h. 00m. a.m., l.m.t., set off  $32^{\circ}33'$  N. on the lat. arc;  $20^{\circ}39\frac{1}{2}'$  S. on the decl. arc, and determine a meridian with the solar, which agrees with the true meridian.

At apparent noon, with the lat. arc unchanged, observe the sun on the meridian, and obtain a reading of  $20^{\circ}39'$  S. on the decl. arc, which agrees with the computed decl. of the sun.

At 4h. 00m. p.m., l.m.t., with the lat. arc unchanged, set off  $20^{\circ}35\frac{1}{2}'$  S. on the decl. arc, and determine a meridian with the solar, which agrees with the true meridian.

As all of the solar observations made during the usual hours of solar work come within 1' of the true meridian, conclude that the adjustments of the instrument are satisfactory.

All measurements were made with a Lufkin steel tape, 5 chs. in length, compared with a Lufkin 1 ch. standard steel tape, and found correct. The measurements are made on the slope, the vertical angles determined, and the slope measurements properly reduced to true horizontal distances for entry in the field notes.

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Survey of the East boundary of Township 9 South, Range 18 East. 3

Chains. From the cor. of Ts. 9 and 10 S., Rs. 18 and 19 E., described in Book "D" of this group, North, on true line, bet. secs. 31 and 36. Over heavily rolling land, thru. dense undergrowth. Ascend 115 ft., over SW. slope.

20.00 Spur, slopes W.  
Descend 32 ft., over NW. slope.

27.00 Wash, 15 lks. wide, course W.  
Ascend 90 ft., over S. slope.

35.50 Spur, slopes W.  
Descend 57 ft., over NW. slope, to

40.00 Set an iron post, 3 ft. long, 1 in. in diam., 20 ins. in the ground to bed rock, deposit a stone marked with a cross (x) at base of post, and raise a mound of stone around post, for  $\frac{1}{4}$  sec. cor. of secs. 31 and 36, marked on brass cap,

†  
S36 | S31  
1924

No bearing trees available.  
Descend 74 ft., over NW. slope.

46.50 Wash, 20 lks. wide, course S. 70° W.  
Ascend 171 ft., over S. slope.

59.00 Spur, slopes W.  
Descend 70 ft., over N. slope.

64.00 Gulch, course W.  
Ascend 125 ft., over SW. slope.

78.00 Spur, slopes W.  
Descend 70 ft., over NW. slope, to

80.00 Set an iron post, 3 ft. long, 2 ins. in diam., 27 ins. in the ground, for cor. of secs. 25, 30, 31 and 36, marked on brass cap,

T9S  
R18E | R19E  
S25 | S30  
S36 | S31  
1924

No bearing trees available. Raise a mound of stone, 3 ft. base, 2 ft. high, W. of cor.  
Land, heavily rolling.  
Soil, gravelly, 3rd rate.  
Timber, none.  
Undergrowth, greasewood, scrub mesquite and palo verde.  
Fair grass.

North, on true line, bet. secs. 25 and 30. Over heavily rolling land, thru. scattering undergrowth. Descend 30 ft., over NW. slope.

2.60 Wash, 20 lks. wide, course W.  
Ascend 220 ft., over SW. slope.

20.00 Spur, slopes S. 70° W.  
Descend 160 ft., over NW. slope.

34.00 Gulch, course W.  
Ascend 70 ft., over S. slope.

39.00 Short spur, slopes W.  
Descend 15 ft., over NW. slope, to

40.00 Set an iron post, 3 ft. long, 1 in. in diam., 16 ins. in the ground to bed rock, deposit a stone marked with a cross (x) at base of post, and raise a mound of stone around post, for  $\frac{1}{4}$  sec. cor. of secs. 25 and 30, marked on brass cap,

†  
S25 | S30  
1924

4 Survey of East boundary of Township 9 South, Range 18 East.

Chains.

No bearing trees available.  
 Descend 40 ft., over NW. slope.  
 43.70 Wash, 10 lks. wide, course W.  
 Ascend 120 ft., over S. slope.  
 53.50 Spur, slopes W.  
 Descend 90 ft., over NW. slope.  
 61.00 Draw, course S. 60° W.  
 Ascend 20 ft., over S. slope.  
 64.50 Spur, slopes W.  
 Descend 80 ft., over NW. slope.  
 73.50 Wash, 25 lks. wide, course W.  
 Ascend 25 ft., over SW. slope, to  
 79.50 Point of spur, slopes SW.  
 Ascend slightly over W. slope, to  
 80.00 Set an iron post, 3 ft. long, 2 ins. in diam., 27 ins. in the  
 ground, for cor. of secs. 19, 24, 25 and 30, marked on  
 brass cap,

T9S  
 R18E | R19E  
 S24 | S19  
 S25 | S30  
 1924

No bearing trees available. Raise a mound of stone, 3 ft.  
 base, 2 ft. high, W. of cor.  
 Land, heavily rolling.  
 Soil, gravelly, 3rd rate.  
 Timber, none.  
 Undergrowth, greasewood, cactus, scrub palo verde and mes-  
 quite.  
 Fair grass.

North, on true line, bet. secs. 19 and 24.  
 Over heavily rolling land, thru. scattering undergrowth.  
 Ascend 23 ft., over W. slope, to  
 5.60 Wash, 10 lks. wide, course SW.  
 Ascend 120 ft., over SE. slope.  
 15.30 Spur, slopes SW.  
 Descend 35 ft., over NW. slope.  
 20.20 Gully, course W.  
 Ascend 45 ft., over S. slope.  
 24.00 Point of spur, slopes W.  
 Descend 40 ft., over NW. slope.  
 30.40 Rocky gulch, course S. 70° W.  
 Ascend 98 ft., over SW. slope, to  
 40.00 Set an iron post, 3 ft. long, 1 in. in diam., 27 ins. in  
 the ground, for  $\frac{1}{4}$  sec. cor., marked on brass cap,

$\frac{1}{4}$   
 S24 | S19  
 1924

No bearing trees available. Raise a mound of stone, 3 ft.  
 base, 2 ft. high, W. of cor.  
 Enter gently rolling land.  
 Ascend 150 ft., over SW. and W. slopes, to  
 80.00 Set an iron post, 3 ft. long, 2 ins. in diam., 16 ins. in  
 the ground to bed rock, deposit a stone marked with a  
 cross (x) at base of post, and raise a mound of stone  
 around post, for cor. of secs. 13, 18, 19 and 24, marked  
 on brass cap,

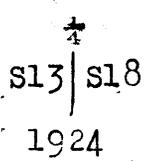
T9S  
 R18E | R19E  
 S13 | S18  
 S24 | S19  
 1924

Survey of the East boundary of Township 9 South, Range 18 East. 5

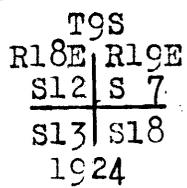
Chains.

No bearing trees available.  
 Land, heavily and gently rolling.  
 Soil, gravelly, 3rd rate.  
 Timber, none.  
 Undergrowth, scrub mesquite and greasewood.  
 Fair grass.

North, on true line, bet. secs. 13 and 18.  
 Over gently rolling land, thru. dense undergrowth.  
 Ascend 40 ft., over W. slope, to  
 20.30 Rocky gully, course S. 70° W.  
 Ascend gradually over SW. slope, to  
 40.00 Set an iron post, 3 ft. long, 1 in. in diam., 27 ins. in  
 the ground, for  $\frac{1}{4}$  sec. cor. of secs. 13 and 18, marked on  
 brass cap,



No bearing trees available. Raise a mound of stone, 3 ft.  
 base, 2 ft. high, W. of cor.  
 Descend 20 ft., over NW. slope.  
 42.40 Rocky wash, course S. 60° W.  
 Ascend 134 ft., over SE. slope.  
 62.50 Spur, slopes SW.  
 Descend 15 ft., over NW. slope.  
 65.40 Rocky gully, course W.  
 Ascend 50 ft., over S. slope.  
 73.40 Wire fence. brs. E. and W.  
 76.00 Spur, slopes S. 70° W.  
 Descend 20 ft., over NW. slope, to  
 80.00 Set an iron post, 3 ft. long, 2 ins. in diam., 24 ins. in  
 the ground, for cor. of secs. 7, 12, 13 and 18, marked on  
 brass cap,



No bearing trees available. Raise a mound of stone, 3 ft.  
 base, 2 ft. high, W. of cor.  
 Land, gently rolling.  
 Soil, gravelly and sandy, 3rd rate.  
 Timber, none.  
 Undergrowth, greasewood, catclaw and scrub mesquite.  
 Fair grass.

North, on true line, bet. secs. 7 and 12.  
 Over rolling land, thru. scattering timber and undergrowth.  
 Descend 15 ft., over NW. slope.  
 0.80 Gulch, course SW.  
 Ascend 90 ft., over SE. slope.  
 14.50 Spur, slopes SW.  
 Descend 31 ft., over NW. slope.  
 17.20 Gulch, course SW.  
 Ascend 50 ft., over SW. slope.  
 30.00 Spur, slopes SW.  
 Descend 74 ft., over NW. slope, to  
 40.00 Set an iron post, 3 ft. long, 1 in. in diam., 27 ins. in  
 the ground, for  $\frac{1}{4}$  sec. cor., of secs. 7 and 12, marked  
 on brass cap,

## BOOK 3702

## 6 Survey of East boundary of Township 9 South, Range 18 East.

Chains.

$$\begin{array}{c} \frac{1}{4} \\ | \\ S12 | S 7 \\ | \\ 1924 \end{array}$$

from which,

An oak, 24 ins. in diam., brs. S.  $58\frac{1}{2}^{\circ}$  E., 33 lks.  
dist., marked  $\frac{1}{4}$  S 7 BT.An oak, 20 ins. in diam., brs. N.  $84^{\circ}$  W., 106 lks.  
dist., marked  $\frac{1}{4}$  S 12 BT.A tent house brs. N.  $6^{\circ}54'$  E.

Descend slightly over NW. slope.

40.15

Gully, course W.

Ascend 27 ft., over W. slope, to

57.50

Rocky gulch, course SW. Enter heavily rolling land.

Ascend 120 ft., over S. slope.

67.00

Spur, slopes W.

Descend 222 ft., over N. slope.

75.80

Gulch, course W.

Ascend 20 ft., over SW. slope, to

80.00

Set an iron post, 3 ft. long, 2 ins. in diam., 24 ins. in  
the ground, for cor. of secs. 1, 6, 7 and 12, marked on  
brass cap,
$$\begin{array}{c} T9S \\ R18E | R19E \\ S 1 | S 6 \\ \hline S12 | S 7 \\ 1924 \end{array}$$

from which,

An oak, 6 ins. in diam., brs. N.  $46\frac{1}{2}^{\circ}$  E., 42 lks.  
dist., marked T9S R19E S6 BT.An oak, 12 ins. in diam., brs. S.  $28\frac{1}{2}^{\circ}$  E., 146 lks.  
dist., marked T9S R19E S7 BT.An oak, 10 ins. in diam., brs. S.  $72^{\circ}$  W., 26 lks.  
dist., marked T9S R18E S12 BT.An oak, 6 ins. in diam., brs. N.  $41^{\circ}$  W., 40 lks.  
dist., marked T9S R18E S1 BT.

Land, gently and heavily rolling.

Soil, sandy and gravelly, 3rd rate.

Timber, oak.

Undergrowth, greasewood and cactus.

Fair grass.

North, on true line, bet. secs. 1 and 6.

Over heavily rolling land, thru. scattering timber and  
undergrowth.

Ascend 265 ft., over steep SW. slope.

10.00

Spur, slopes W.

Descend 185 ft., over N. slope.

21.00

Gulch, course W.

Ascend 60 ft., over S. slope.

26.00

Spur, slopes W.

Descend 55 ft., over N. slope.

31.30

Wash, 10 lks. wide, course W.

Ascend 80 ft., over SW. slope, to

40.00

Set an iron post, 3 ft. long, 1 in. in diam., 16 ins. in  
the ground to bed rock, deposit a stone marked with a  
cross (x) at base of post, and raise a mound of stone  
around post, for  $\frac{1}{4}$  sec. cor. of secs. 1 and 6, marked on  
beass cap,
$$\begin{array}{c} \frac{1}{4} \\ | \\ S 1 | S 6 \\ | \\ 1924 \end{array}$$

No bearing trees available.

Ascend 52 ft., over SW. slope, to

Survey of the East boundary of Township 9 South, Range 18 East. 7

Chains.

48.00

Gully, course SW.

63.65

Ascend 327 ft., over S.slope.

69.70

Tent house brs.N.40°38'E.

74.70

Spur, slopes W.

75.78

Descend 79 ft., over NW.slope to Tp.cor.

Wire fence, brs.E.and W.

Intersect the random S. bdy.of T.8 S., R.18 E., surveyed due east as described in Book "F."

\* 74.82 \*

At point of intersection, set an iron post, 3 ft.long, 3 ins.in diam., 27 ins.in the ground, for cor.of Ts.8 and 9 S., Rs.18 and 19 E., marked on brass cap,

T8S	
R18E	R19E
S36	S31
S 1	S 6
R18E	R19E
T9S	
1924	

from which,

An oak, 18 ins.in diam., brs.N.23°E., 547 lks. dist., marked T8S R19E S31 BT.

An oak, 10 ins.in diam., brs.S.4°E., 390 lks. dist., marked T9S R19E S6 BT.

An oak, 10 ins. in diam., brs.S.25¼°W., 386 lks. dist., marked T9S R18E S1 BT.

An oak, 12 ins.in diam., brs.N.28½°W., 457 lks. dist., marked T8S R18E S36 BT.

Land, heavily rolling.

Soil, gravelly, 3rd rate.

Timber, oak and juniper.

Undergrowth, greasewood and cactus.

The continued satisfactory adjustment of the solar apparatus of the instrument used in the execution of the surveys described in the foregoing notes is indicated from field tests described in Book "F" of this group.

*This distance 74.82 under  
Group 142, in 1926.  
Other notes same.*

Boundaries of Township 9 South, Range 18 East..

Latitudes, departures, and closing errors.

Line designated.	True course.	Dist.	Latitudes.		Departures.	
			N.	S.	E.	W.
South boundary, (Group 125)	West, N.89°46'W.	279.90 121.69	.49			279.90 121.69
South boundary, (Orig. surv. 1879)	West,	80.00				80.00
West boundary, (Orig. surv. 1877)	North,	320.00	320.00			
West boundary, (Group 125)	N.0°10'W.	160.24	160.24			.45
North boundary, (Group 125)	East,	481.96			481.96	
East boundary, (Group 125)	South,	475.78		475.78		
Convergency,					.46	
<u>Totals.</u>			480.73	475.78	482.42	482.04
			475.78		482.04	
<u>Error in latitude.</u>			4.95			
<u>Error in departure.</u>					0.38	

GENERAL DESCRIPTION.

SURFACE: Rolling, draining to the east. Approximate elevation, is 3500 ft. above sea level.  
 SOIL: Sandy and gravelly, 2nd and 3rd rate.  
 TIMBER: Very scattering palo verde and mesquite.  
 UNDERGROWTH: Greasewood, scrub mesquite, palo verde and cactus.  
 EVIDENCE OF MINERAL: None.  
 WATER: None.  
 SETTLEMENT: None.  
 IMPROVEMENTS: Fences in secs. 13, 18, 1 and 6.  
 INDUSTRY: Stock grazing.  
 ROADS: None.



CERTIFICATE OF UNITED STATES TRANSITMAN.

I, Theodore Vander Meer, U.S. Transitman, hereby certify upon honor that, in pursuance of special instructions received from the U. S. Surveyor General, for Group 125, Arizona, bearing date of the 24th day of October, 1923, 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, surveyed all those parts or portions of the East boundary of

TOWNSHIP 9 SOUTH, RANGE 18 EAST.

of the Gila and Salt River Base and Meridian, in the State of Arizona, and by diagram on page 1 hereof the foregoing field notes as having been executed by me, and under my direction; and that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the U. S. Surveyor General, for Group 125, Arizona, and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey.

Phoenit B... June 5, 1925

Theodore Vander Meer U.S. Surveyor

APPROVAL.

OFFICE OF U.S. SUPERVISOR OF SURVEYS,

Denver, Colorado, March 20, 1926.

The foregoing field notes of the survey of the East boundary of

TOWNSHIP 9 SOUTH, RANGE 18 EAST.

of the Gila and Salt River Base and Meridian, in the State of Arizona,

executed by Theodore Vander Meer, U. S. Transitman, under his special instructions dated October 24, 1923, for Group 125, Arizona, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

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. Surveyor General.