

FIELD NOTES

BOOK 3942

OF THE SURVEY OF THE

East Boundary

Part (Completion) of the North Boundary

and

Part (Completion) of the Subdivisions of

Township 22 North, Range 11 East.

Of the Gila and Salt River Meridian,

In the State of Arizona

EXECUTED BY

Benjamin J. Kinsey

U. S. Surveyor

In the capacity of U. S. Surveyor, under Special Instructions dated May 14, 1932, issued by the District Cadastral Engineer to govern surveys included in Group No. 177, which were approved by the Commissioner of the General Land Office, May 19, 1932, and Assignment Instructions dated May 18, 1932.

Survey commenced June 21, 1932

Survey completed July 10, 1932

3942

3942

INDEX DIAGRAM.

Township , *Range*

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

4-679 b

BOOK 3942

INDEX DIAGRAM.

Township 22 North, Range 11 East

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

BOOK 3942

DATE DIAGRAM

	6-30-32	6-30-32	6-30-32	6-30-32	6-30-32
	7-7 7-7-32	7-7-32	7-5-32	7-2-32	6-29-32
	7-6 7-6-32	7-6-32	7-5-32	7-2-32	6-28-32
	7-6 7-6-32	7-6-32	7-5-32	6-28-32	6-28-32
	6-6 7-6-32	7-6-32	6-27-32	6-28-32	6-28-32
	7-1 7-6-32	7-1-32	6-27-32	6-24-32	6-24-32
	7-1-32	6-27-32	6-24-32	6-24-32	6-21-32
		6-27-32	6-24-32		6-21-32
					6-23-32

The surveys herein described were executed on dates shown on diagram hereof, by Benjamin J. Kinsey, U. S. Surveyor, using Young & Sons transit No. 8540; the instrument is equipped with full vertical circle, Smith solar attachment and otherwise conforms to the standard requirements of the General Land Office; the instrument was examined by the District Cadastral Engineer of California and Arizona, on May 18, 1932, and approved subject to satisfactory field tests.

PRELIMINARY FIELD TEST

of
Young & Sons Transit No. 8540

June 19, 1932:

At station, near the $\frac{1}{4}$ sec. cor. of secs. 25 & 30, W. bdy. T. 22 N., R. 10 E., Gila and Salt River Meridian, Arizona, in latitude $35^{\circ} 16' N.$, and approximate longitude $111^{\circ} 23' W.$, examine the adjustments of the transit and find no errors; then to test the workings of the solar apparatus, proceed as follows:

June 20:

At 1h. 48m., a.m., l.m.t., observe Polaris at eastern elongation, making four observations, two each with the telescope in direct and reversed positions, and marking the mean point in the line thus determined by a tack set in top of a peg, driven firmly in the ground, about 5 chs. North.

Azimuth of Polaris at eastern elongation: $1^{\circ} 18'$

Daylight: lay off the azimuth of Polaris $1^{\circ} 18'$ to the west, and mark the meridian thus determined by a tack set in top of a peg, driven firmly in the ground about 5 chs. N.

At 9h. 00m., a.m., app. t., set off $35^{\circ} 16' N.$, on lat. arc, $23^{\circ} 27' N.$ on decl. arc, and determine a meridian with the solar which agrees with the true meridian.

At 12h 00m., app. noon, with lat. arc unchanged, observe the sun on the meridian; the resultant reading of the declination arc is $23^{\circ} 27' N.$, which agrees with the computed declination of the sun.

At 3h. 00m., p.m., app. t., with lat. arc unchanged, set off $23^{\circ} 27' N.$, on declination arc and determine a meridian with the solar which I find to agree with the true meridian.

As all of the observations, taken during the usual hours of solar work, agree within $1'$ of the true meridian, conclude that the instrument is in a satisfactory state of adjustment.

All azimuth determinations are accomplished with the solar attachment, except the special observation upon Polaris for a meridian upon which to test the solar apparatus.

The measurements are made on the slope, the vertical angle determined with a clinometer and the slope measurements properly reduced to true horizontal measurements.

Survey of the East Bdy. of T. 22 N., R. 11 E.

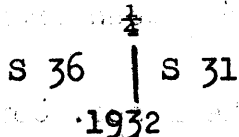
Chains

From the cor. of Ts. 21 and 22 N., Rs. 11 and 12 E., described in field notes of east bdy. of T. 21 N., R. 11 E.

North on a true line, bet. secs. 31 and 36.

Over rolling land, through scattering undergrowth.

40.00 Set an iron post 3 ft. long, 1 in. in diam., 18 ins. in the ground to bedrock, deposit a stone marked with a cross (X) at base of post, in a mound of stone to top for the $\frac{1}{4}$ sec. cor. of secs. 31 and 36, with brass cap marked



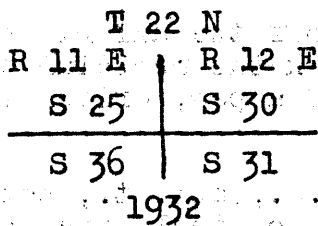
Desc. gradual NW slope.

66.80 Road, bears E. and W.

76.80 Road, bears NW and SE.

80.00 Foot of descent; west edge of bottom land, bears N. and S.

Set an iron post 3 ft. long, 2 ins. in diam., 20 ins. in the ground to bedrock, deposit a stone marked with a cross (X) at base of post, in a mound of stone to top, for the cor. of secs. 25, 30, 31, and 36, with brass cap marked



Center of dry lake bears east, about $\frac{1}{2}$ mile distant. A corral bears SE. about 20 chs. distant.

Land, rolling.

Soil, sandy, loose volcanic, 4th rate.

Timber, none.

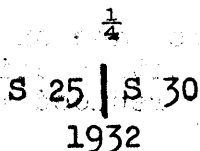
Undergrowth, bunch grass, sagebrush and cacti.

North, on a true line, bet. secs. 25 and 30.

Over rolling land, through scattering timber and undergrowth. Asc. gradual SE. slope.

34.30 Old road, bears NE and SW.

40.00 Set an iron post 3 ft. long, 1 in. in diam., 27 ins. in the ground, for the $\frac{1}{4}$ sec. cor. of secs. 25 and 30, with brass cap marked



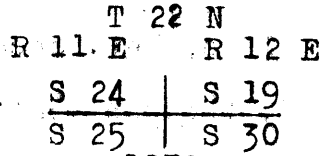
18 x 18 x 12 ins., N. and S. of post, 3 ft. dist. dig pits

Survey of the East Bdy. of T. 22 N., R. 11 E.

Chains

44.40 Road, bears NW and SE.

80.00 Set an iron post 3 ft. long, 2 ins. in diam., 27 ins. in the ground for the cor. of secs. 19, 24, 25, and 30, with brass cap marked



1932

raise a mound

of stone 2 ft. base, 1 1/2 ft. high W. of cor.

Land, rolling plains.

Soil, rocky, sandy 4th. rate.

Timber, none.

Undergrowth, sagebrush, grass, cacti and rabbitweed.

North, on a true line, bet. secs. 19 and 24.

Over rolling land, through scattering undergrowth.

Asc. 32 ft. over gradual SE slope.

3.30 Road, bears NE and SW.

8.00 Indian hogan, bears 1 ch. east.

10.00 Stone corral, 1 ch. in diam., bears W., about 2 chs. dist.

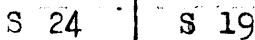
14.00 Edge of spur, bears NE. Across level land.

19.00 N. edge of spur, desc. NW slope, gradually.

23.95 Shallow draw, course SW. Asc. gradual SW slope.

40.00 Set an iron post 3 ft. long, 1 in. in diam., 27 ins. in the ground, for the 1/4 sec. cor. of secs. 19 and 24, with brass cap marked

1/4



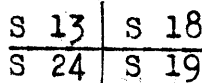
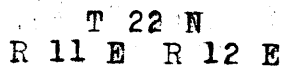
1932

raise a mound

of stone 2 ft. base, 1 1/2 ft. high, W. of cor.

Continue over rolling land.

80.00 Set an iron post 3 ft. long, 2 ins. in diam., 27 ins. in the ground, for the cor. of secs. 13, 18, 19, and 24, with brass cap marked



1932

raise a mound

of stone 2 ft. base, 1 1/2 ft. high W. of cor.

4

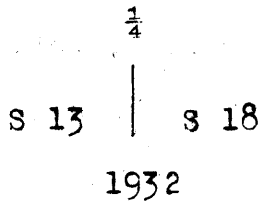
Survey of the East Side of T. 22 N., R. 11 E.

Chains

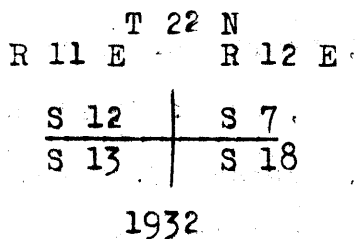
Land, rolling.
Soil, rocky, sandy, volcanic 4th. rate.
Timber, none.
Undergrowth, sagebrush, rabbitweed, cacti and bunchgrass.

North, on a true line, bet. secs. 13 and 18.
Over rolling land, through scattering undergrowth.
Asc. gradual S. slope.

40.00 Set an iron post 3 ft. long, 1 in. in diam., 20 ins. in the ground to bedrock, deposit a stone marked with a cross (X) at base of post, in a mound of stone to top, with brass cap marked



80.00 Set an iron post 3 ft. long, 2 ins. in diam., 6 ins. in the ground to bedrock, in a mound of stone to top, for the cor. of secs. 7, 12, 13, and 18, with brass cap marked

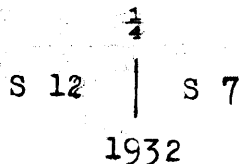


Land, rolling.
Soil, sandy, stony volcanic 4th. rate.
Timber, none.
Undergrowth, sagebrush, cacti, and grass.

North, on a true line, bet. secs. 7 and 12.
Over mountainous land, through scattering undergrowth.
Desc. N. slope gradually.

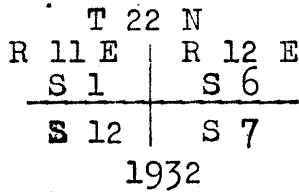
5.00 Road, bears E. and W. From Flagstaff, Ariz. to Leupp Indian Agency.

40.00 Set an iron post 3 ft. long, 1 in. in diam., 27 ins. in the ground, for the $\frac{1}{4}$ sec. cor. of secs. 7 and 12, with brass cap marked



4 ft. base, 2 ft. high w. of cor., 3 ft. distant. raise a mound of stone

Chains Desc. gradual NE slope of swale.
 80.00 Set an iron post 3 ft. long, 2 ins. in diam., 28 ins. in the ground, for the cor. of secs. 1, 6, 7, and 12, with brass cap marked



raise a mound
 of stone 4 ft. base, 2 ft. high W. of cor.

Land, rolling.
 Soil, rocky 4th rate.
 Timber, none.
 Undergrowth, sagebrush, bunch grass, cacti.

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

Over rolling land, through scattering undergrowth.

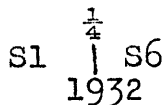
Desc. gradual N. slope.

5.00 Swale, 10 chs. wide, drains NE. Asc. 38 ft. over SE slope.

15.00 Indian hogan, bears 1 ch. east.

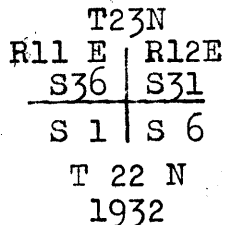
32.40 E. edge of rocky knoll, 15 ft. high, 50 lks. in diameter.

40.00 Set an iron post 3 ft. long, 1 in. in diam., 27 ins. in the ground, for the $\frac{1}{4}$ sec. cor. of secs. 1 and 6, with brass cap marked



raise a mound
 of stone 4 ft. base, 2 ft. high, W. of cor.

80.00 Set an iron post 3 ft. long, 3 ins. in diam., 30 ins. in the ground, for the cor. of Ts. 22 and 23 N., Rs. 11 and 12 E., with brass cap marked



raise a mound
 of stone 4 ft. base, 2 ft. high, S. of cor.

Land, rolling.
 Soil, rocky, loose sandy 4th rate.
 Timber, none.
 Undergrowth, sagebrush, cacti and bunchgrass.

 Survey of Part (completion) of the N.bdy. of T. 22 N., R. 11 E.

The western one and three-quarter miles of the N. bdy. of T. 22 N., R. 11 E., was surveyed by T. B. Matthews, U.S.S. in 1916, in connection with the survey of part of the west bdy. of the Navajo Indian Reservation and subdivision lines west thereof. The following notes describe a survey of the eastern four and one-quarter miles of the N. bdy. of the Tp.

6 Survey of Part (completion) of the N. bdy. of T. 22 N., R. 11 E.

Chains	
	From the cor. of Ts. 22 and 23 N., Rs. 11 and 12 E., hereinafter described.
	N. 89° 58' W., on a true line, bet. secs. 36 and 1, towards flag visible on objective cor. on W. bdy. of Navajo Indian Reservation.
	Over rolling land, through scattering undergrowth.
	Asc. gradual NE slope.
25.80	Edge of benchland, bears NE-SW. Desc. 77 ft. over NW slope.
28.85	Wash, 50 lks. wide, course NE. Asc. 70 ft. over NE slope.
30.80	W. edge of bench, bears NE and SW. Thence over rolling land.
40.00	Set an iron post 3 ft. long, 1 in. in diam., 20 ins. in the ground to bedrock, deposit a stone marked with a cross (X) at base of post, in a mound of stone to top, for the $\frac{1}{4}$ sec. cor. of secs. 1 and 36, with brass cap marked
	$\frac{1}{4} \frac{S 36}{S 1}$ 1932
80.00	Set an iron post 3 ft. long, 2 ins. in diam., 26 ins. in the ground, for the cor. of secs. 1, 2, 35, and 36, with brass cap marked
	T 23 N R 11 E $\frac{S 35 S 36}{S 2 S 1}$ T 22 N 1932
	Dig pits 18 x 18
	x 12 ins., NE, SE, SW, and NW of cor.
	Land, rolling.
	Soil, rocky, loose, sandy 4th rate.
	Timber, none.
	Undergrowth, sagebrush, cacti, and bunch grass.

	N. 89° 58' W., on true line, bet. secs. 2 and 35.
	Over rolling land, through scattering undergrowth.
40.00	Set an iron post 3 ft. long, 1 in. in diam., 27 ins. in the ground, for the $\frac{1}{4}$ sec. cor. of secs. 2 and 35, with brass cap marked
	$\frac{1}{4} \frac{S 35}{S 2}$ 1932
	dig pits
	18 x 18 x 12 ins., E. and W. of post, 3 ft. dist.
80.00	Set an iron post 3 ft. long, 2 ins. in diam., 27 ins. in the ground, for the cor. of secs. 2, 3, 34, and 35, with brass cap marked

Survey of part (completion) of the N. bdy. of
T. 22 N., R. 11 E.

Chains

T 23 N R 11 E
S 34 | S 35

S 3 | S 2
T 22 N
1932

Dig pits, 18 x 18 x
12 ins., NE, SE, SW, and NW of corner.

Land, rolling.
Soil, rocky, sandy loose volcanic 4th rate.
Timber, none.
Undergrowth, sagebrush, cacti, and bunch grass.

N. 89° 58' W., on true line, bet. secs. 3 and 34.

Over rolling land, through scattering undergrowth.

Asc. 230 ft. over NE slope.

34.80 Edge of mesa, bears NW-SE. Thence across rolling top.

38.20 Shallow draw, course NE.

40.00 Set an iron post 3 ft. long, 1 in. in diam., 27 ins. in
the ground, for the $\frac{1}{4}$ sec. cor. of secs. 3 and 34,
with brass cap marked

$\frac{1}{4}$ S 34
S 3
1932

raise a mound of
stone 4 ft. base, 2 ft. high N. of corner.

80.00 Set an iron post 3 ft. long, 2 ins. in diam., 27 ins. in
the ground, for the cor. of secs. 3, 4, 33, and 34,
with brass cap marked

T 23 N R 11 E
S 33 | S 34

S 4 | S 3
T 22 N
1932

raise a mound of
stone 4 ft. base, 2 ft. high, W. of cor.

Land, rolling.
Soil, rocky, sandy, loose volcanic 4th rate.
Timber, none.
Undergrowth, sagebrush, cacti, and bunchgrass.

N. 89° 58' W., on a true line, bet. secs. 4 and 33.

40.00 Set an iron post, 3 ft. long, 1 in. in diam., 27 ins. in
the ground, for the $\frac{1}{4}$ sec. cor. of secs. 4 and 33, with
brass cap marked

$\frac{1}{4}$ S 33
S 4
1932

raise a mound of
stone 4 ft. base, 2 ft. high, N. of corner.

Survey of part (completion) of the N. bdy. of
T. 22 N., R. 11 E.

Chains

80.00 Set an iron post 3 ft. long, 2 ins. in diam., 27 ins. in the ground, for the cor. of secs. 4, 5, 32, and 33, with brass cap marked

T 23 N R 11 E

S 32 S 33

S 5 S 4

T 22 N

1932

raise a mound
of stone 4 ft. base, 2 ft. high, W. of post.

Land, rolling.

Soil, rocky, loose, sandy volcanic 4th rate.

Timber, none.

Undergrowth, sagebrush, bunch grass and cacti.

N. 89° 58' W., on true line, bet. secs. 5 and 32.

Over rolling land, through scattering undergrowth.

24.37 Intersect the 12 mile cor. of W. bdy. of Navajo Indian reservation, which is an iron post 3 ins. in diam., firmly set, projecting 12 ins. above ground, with brass cap marked properly and witnessed by pits NE, SE, SW, and NW. of cor.

Land, rolling.

Soil, rocky, loose sandy volcanic 4th rate.

Timber, none.

Undergrowth, sagebrush, cacti, and bunchgrass.

Survey of Subdivision of T. 22 N., R. 11 E.

Chains

From cor. of secs. 1, 2, 35, and 36, on S. bdy. of Tp., described in field notes of east bdy. of T. 21 N., R. 11 E.

N. 0° 01' W., on true line, bet. secs. 35 and 36.

Over rolling land, through scattering undergrowth.

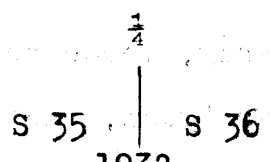
1.30 Wash, 20 lks. wide, course NE.

1.50 Wagon road, bears NE and SW.

7.50 Wash, 10 lks. wide, course E.

12.20 Wash, 1 ch. wide, course SE.

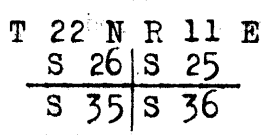
40.00 Set an iron post 3 ft. long, 1 in. in diam., 27 ins. in the ground, for the 1/4 sec. cor. of secs. 35 and 36, with brass cap marked



40.65 18 x 18 x 12 ins., N. and S. of post, 3 ft. dist. dig pits
Old road, bears NW and SE.

50.00 Low ridge, bears NW and SE. Desc. gradual NE slope.

80.00 Set an iron post 3 ft. long, 2 ins. in diam., 18 ins. in the ground to bedrock, deposit a stone marked with a cross (X) at base of post, in a mound of stone to top, for the cor. of secs. 25, 26, 35, and 36, with brass cap marked



1932

Land, rolling.
Soil, rocky, sandy, loose volcanic 4th. rate.
Timber, none.
Undergrowth, sagebrush, cacti and bunchgrass.

S. 89° 59' E., on a random line, bet. secs. 25 and 36.

40.00 Set temp. 1/4 sec. cor.

80.02 Intersect the E. bdy. of Tp., at the cor. of secs. 25, 30, 31, and 36, hereinbefore described.

Thence,

N. 89° 59' W., on true line, bet. secs. 25 and 36.

Over rolling land, through scattering undergrowth.

15.70 Road, bears W. and SE. Along same.

18.40 Road, bears SW and W.

Chains

23.40 Road, bears NW and SE.

30.00 Asc. gradual E. slope.

40.01 Set an iron post 3 ft. long, 1 in. in diam., 27 ins. in the ground, for the $\frac{1}{4}$ sec. cor. of secs. 25 and 36, with brass cap marked

$\frac{1}{4}$ S 25
S 36
1932

raise a mound

of stone 4 ft. base, 2 ft. high N. of cor.

51.80 Road, bears NW and SE.

80.02 The cor. of secs. 25, 26, 35, and 36.

Land, rolling.
Soil, rocky, sandy, loose volcanic 4th. rate.
Timber, none.
Undergrowth, sagebrush, cacti, and bunchgrass.

N.0° 01' W., on true line, bet. secs. 25 and 26.

Over rolling land, through scattering undergrowth.

Desc. gradual NE slope.

4.80 Road, bears NE and SW.

40.00 Set an iron post 3 ft. long, 1 in. in diam., 27 ins. in the ground, for the $\frac{1}{4}$ sec. cor. of secs. 25 and 26, with brass cap marked

$\frac{1}{4}$
S 26 | S 25
1932

of stone 4 ft. base, 2 ft. high W. of cor. raise a mound

64.00 Swale, bears E. and W.

80.00 Set an iron post 3 ft. long, 2 ins. in diam., 27 ins. in the ground, for the cor. of secs. 23, 24, 25, and 26, with brass cap marked

T 22 N R 11 E
S 23 | S 24
S 26 | S 25
1932

18 x 18 x 12 ins. in each section 3 ft. dist. dig pits

Land, rolling.
Soil, rocky, loose, sandy volcanic 4th. rate.
Timber, none.
Undergrowth, sagebrush, cacti, and bunchgrass.

S. 89° 59' E., on a random line, bet. secs. 24 and 25.

40.00 Set temp. $\frac{1}{4}$ sec. cor.

80.02 Intersect the E. bdy. of Tp., at 2 lks. S. of the cor.

Survey of the Subdivision of T. 22 N., R. 11 E. 11

Chains

of secs. 19, 24, 25, and 30, hereinbefore described.

Thence,

West, on a true line, bet. secs. 24 and 25.

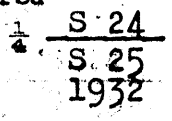
Over rolling land, through scattering undergrowth.

3.30 Road, bears NE and SW.

Asc. gradual SE slope 38 ft.

10.00 Spur, bears SW. Desc. 57 ft. over W. slope.

40.01 Set an iron post 3 ft. long, 1 in. in diam., 27 ins. in the ground, for the 1/4 sec. cor. of secs. 24 and 25, with brass cap marked



18 x 18 x 12 ins., E. and W. of post, 3 ft. dig pits.

Windmill and reservoir, fenced, br. S. 57° 30' E. 8.09 chs.

80.02 The cor. of secs. 23, 24, 25, and 26.

Land, rolling.

Soil, sandy, loose volcanic 4th. rate.

Timber, none.

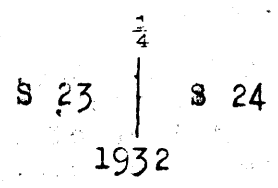
Undergrowth, sagebrush, cacti, and bunchgrass.

N. 0° 01' W., on true line, bet. secs. 23 and 24.

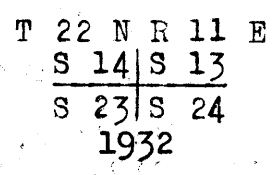
Over rolling land, through scattering undergrowth.

Asc. gradual SE slope.

40.00 Set an iron post 3 ft. long, 1 in. in diam., 18 ins. in the ground to bedrock, deposit a stone marked with a cross (X) at base of post, in a mound of stone to top, for the 1/4 sec. cor. of secs. 23 and 24, with brass cap marked



80.00 Set an iron post 3 ft. long, 2 ins. in diam., 27 ins. in the ground, for the cor. of secs. 13, 14, 23, and 24, with brass cap marked



of stone 4 ft. base, 2 ft. high, W. of cor. raise a mound

Land, rolling.

Soil, sandy, loose, volcanic 4th. rate.

Timber, none.

Undergrowth, sagebrush, cacti, and bunchgrass.

12 Survey of the Subdivision of T. 22 N., R. 11 E.

Chains

East, on a random line, bet. secs. 13 and 24.

40.00 Set temp. $\frac{1}{4}$ sec. cor.

79.96 Intersect the E. bdy. of Tp.; at 2 lks. S. of the cor. of secs. 13, 18, 19, and 24, hereinbefore described.

Thence,

S. 89° 59' W., on true line, bet. secs. 13 and 24.

Over rolling land, through scattering undergrowth.

13.30 Low ridge, bears NW and SE.

39.98 Set an iron post 3 ft. long, 1 in. in diam., 18 ins. in the ground to bedrock, deposit a stone marked with a cross (X) at base of post, in a mound of stone to top, for the $\frac{1}{4}$ sec. cor. of secs. 13 and 24, with brass cap marked
$$\frac{1}{4} \begin{array}{c} \text{S 13} \\ \hline \text{S 24} \end{array}$$

1932

79.96 The cor. of secs. 13, 14, 23, and 24.

Land, rolling.

Soil, rocky, sandy, loose volcanic 4th. rate.

Timber, none.

Undergrowth, sagebrush, cacti, and grass.

N. 0° 01' W., on true line, bet. secs. 13 and 14.

Over rolling land, through scattering timber and undergrowth.

Asc. gradual S. slope.

40.00 Set an iron post 3 ft. long, 1 in. in diam., 15 ins. in the ground to bedrock, deposit a stone marked with a cross (X) at base of post, in a mound of stone to top, for the $\frac{1}{4}$ sec. cor. of secs. 13 and 14, with brass cap marked
$$\frac{1}{4} \begin{array}{c} \text{S 14} \mid \text{S 13} \end{array}$$

1932

80.00 Set an iron post 3 ft. long, 2 ins. in diam., 15 ins. in the ground to bedrock, deposit a stone marked with a cross (X) at base of post, in a mound of stone to top, for the cor. of secs. 11, 12, 13, and 14, with brass cap marked

$$\begin{array}{c} \text{T 22 N R 11 E} \\ \text{S 11} \mid \text{S 12} \\ \hline \text{S 14} \mid \text{S 13} \end{array}$$

1932

Survey of the Subdivision of T. 22 N., R. 11 E.

Chains

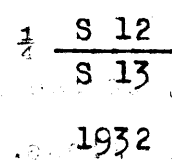
Land, rolling.
Soil, rocky, sandy, loose volcanic 4th. rate.
Timber, none.
Undergrowth, sagebrush, cacti, and bunchgrass.

40.00 N. 89° 59'E., on a random line, bet. secs. 12 and 13.
Set temp. 1/4 sec. cor.

79.90 Intersect the East Bdy. of Tp., at 2 lks. N. of the cor. of secs. 7, 12, 13, and 18, hereinbefore described.

Thence,
West, on a true line, bet. secs. 12 and 13.
Over rolling land, through scattering undergrowth.

39.95 Set an iron post 3 ft. long, 1 in. in diam., 12 ins. in the ground to bedrock, deposit a stone marked with a cross (X) at base of post, in a mound of stone to top, for the 1/4 sec. cor. of secs. 12 and 13, with brass cap marked



79.90 The cor. of secs. 11, 12, 13, and 14.

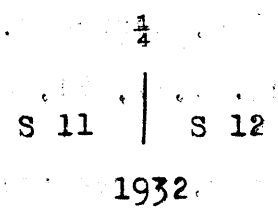
Land, rolling.
Soil, rocky, loose sandy volcanic 4th. rate.
Timber, none.
Undergrowth, sagebrush, cacti and bunchgrass.

18.70 N.0° 01'W., on true line, bet. secs. 11 and 12.
Over rolling land, through scattering undergrowth.
Asc. gradual SE slope.

30.00 Leupp road, bears NW and SE.

40.00 Edge of mesa, bears NW and SE.

40.00 Set an iron post 3 ft. long, 1 in. in diam., 27 ins. in the ground, for the 1/4 sec. cor. of secs. 11 and 12, with brass cap marked



45.60 Raise a mound of stone 4 ft. base, 2 ft. high W. of cor. Rocky knoll, 15 ft. high, 1 ch. in diam.

80.00 Set an iron post 3 ft. long, 2 ins. in diam., 15 ins. in the ground, to bedrock, deposit a stone marked with a cross (X) at base of post, in a mound of stone to top, for the cor. of secs. 1, 2, 11, and 12, with brass cap marked

Chains

T 22 N	R 11 E
S 2	S 1
S 11	S 12

1932

Land, rolling.
 Soil, rocky, sandy, loose volcanic 4th. rate.
 Timber, none.
 Undergrowth, sagebrush, cacti, and bunchgrass.

East, on a random line, bet. secs. 1 and 12.

40.00 Set temp. $\frac{1}{4}$ sec. cor.

79.94 Intersect the cor. of secs. 1, 6, 7, and 12, on E. bdy. of Tp., hereinbefore described.

Thence,

West, on a true line, bet. secs. 1 and 12.

Over rolling land, through scattering undergrowth.

14.00 Wash, 20 lks. wide, course NE. Asc. 85 ft. over SE slope.

22.10 Desc. 38 ft. over SW slope.

39.97 Set an iron post 3 ft. long, 1 in. in diam., 27 ins. in the ground, for the $\frac{1}{4}$ sec. cor. of secs. 1 and 12, with brass cap marked

$\frac{1}{4}$	S 1
	S 12

1932

4 ft. base, 2 ft. high N. of cor. raise a mound of stone

Desc. 29 ft. over SW slope.

45.00 Swale drains S. Asc. 29 ft. over SE slope.

55.00 Spur, bears NW and SE. Desc. 40 ft. over NW slope.

60.00 Swale, drains N. Asc. 40 ft. over NE slope.

65.00 Spur, bears NE. Desc. 20 ft. over NW slope.

66.70 Wash, 50 lks. wide, course N. Asc. gradual E. slope.

79.94 The cor. of secs. 1, 2, 11, and 12.

Land, rolling.
 Soil, rocky, sandy, loose volcanic 4th. rate.
 Timber, none.
 Undergrowth, sagebrush, cacti and bunchgrass.

Chains

N.0° 01'W., on a random line, bet. secs. 1 and 2.

40.00 Set temp. $\frac{1}{4}$ sec. cor.

80.02 Intersect N. bdy. of Tp., at 9 lks. west, of the cor. of secs. 1, 2, 35, and 36, hereinbefore described.

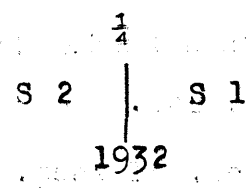
Thence,

S.0° 03'W., on true line, bet. secs. 1 and 2.

Over rolling land, through scattering undergrowth.

30.00 Leave rolling land, enter mountainous; asc. 131 ft. over NW slope.

40.02 Set an iron post 3 ft. long, 1 in. in diam., 10 ins. in the ground to bedrock, deposit a stone marked with a cross (X) at base of post, in a mound of stone to top, for the $\frac{1}{4}$ sec. cor. of secs. 1 and 2, with brass cap marked



Asc. 18 ft. over NW slope.

43.00 Edge of mesa, bears E. and W. Continue over rolling land.

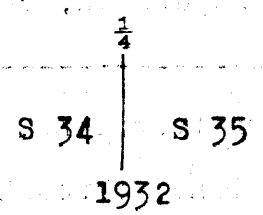
80.02 The cor. of secs. 1, 2, 11, and 12.

Land, rolling and mountainous.
Soil, rocky, sandy, volcanic 4th. rate.
Timber, none.
Undergrowth, sagebrush, cacti and bunchgrass.

From the cor. of secs. 2, 3, 34 and 35, on S. bdy. of Tp described in field notes of N.bdy. of T.21 N., R.11 E.
N.0° 01'W., on true line, bet. secs. 34 and 35.

Over rolling land, through scattering undergrowth.

40.00 Set an iron post 3 ft. long, 1 in. in diam., 18 ins. in the ground, to bedrock, deposit a stone marked with a cross (X) at base of post, in a mound of stone to top, for the $\frac{1}{4}$ sec. cor. of secs. 34 and 35, with brass cap marked



52.50 S. edge of canyon, bears NW and SE. Desc. 61 ft. over vertical cliff.

54.00 Wash. 60 lks. wide, course SE., in bottom of San Francisco canyon. Asc. 60 ft. over SE slope over broken and steep land.

57.50 N. edge of canyon, bears NW and SE. Asc. gradual SE slope.

Chains

67.50 Road, bears NW and SE.

80.00 Set an iron post 3 ft. long, 2 ins. in diam., 27 ins. in the ground, for the cor. of secs. 26, 27, 34, and 35, with brass cap marked

T 22 N	R 11 E
S 27	S 26
S 34	S 35

1932

Dig pits 18 x 18 x 12 ins., NE, SE, SW and NW of cor.

Land, rolling, and broken.
Soil, rocky, sandy, loose volcanic 4th. rate.
Timber, none.
Undergrowth, sagebrush, cacti, and grass.

S. 89° 59'E., on a random line, bet. secs. 26 and 35.

40.00 Set temp. $\frac{1}{4}$ sec. cor.

80.00 Intersect the cor. of secs. 25, 26, 35, and 36.

Thence,

N. 89° 59'W., on true line, bet. secs. 26 and 35.

Over rolling land, through scattering undergrowth.

11.90 Road, bears NE and SW.

40.00 Set an iron post 3 ft. long, 1 in. in diam., 27 ins. in the ground, for the $\frac{1}{4}$ sec. cor. of secs. 26 and 35, with brass cap marked

$\frac{1}{4}$	S 26
	S 35
	1932

raise a mound

of stone 4 ft. base, 2 ft. high N. of cor.

80.00 The cor. of secs. 26, 27, 34, and 35.

Land, rolling.
Soil, rocky, sandy 4th. rate.
Timber, none.
Undergrowth, sagebrush, cacti, and grass.

N. 0° 01'W., on true line, bet. secs. 26, and 27.

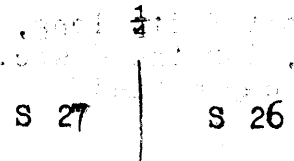
Over rolling land, through scattering undergrowth.

20.00 Low ridge, bears NW and SE. Desc. gradual NE slope.

40.00 Set an iron post 3 ft. long, 1 in. in diam., 27 ins. in the ground, for the $\frac{1}{4}$ sec. cor. of secs. 26 and 27, with brass cap marked

Survey of the Subdivision of T. 22 N., R. 11 E.

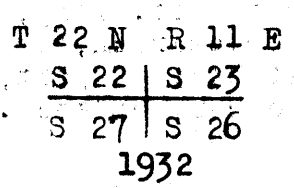
Chains



1932

raise a mound of stone
4 ft. base, 2 ft. high W. of cor.

80.00 Set an iron post 3 ft. long, 2 ins. in diam., 27 ins. in the ground, for the cor. of secs. 22, 23, 26, and 27, with brass cap marked



raise a mound
of stone 4 ft. base, 2 ft. high, W. of cor.
Land, rolling.
Soil, rocky, sandy, loose volcanic 4th. rate.
Timber, none.
Undergrowth, sagebrush, cacti, and bunch grass.

S. 89° 59' E., on a random line, bet. secs. 23 and 26.

40.00 Set temp. 1/4 sec. cor.

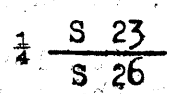
80.00 Intersect N. and S. line, at 5 lks. N. of the cor. of secs. 23, 24, 25, and 26.

Thence,

N. 89° 57' W., on true line, bet. secs. 23 and 26.

Over rolling land, through scattering undergrowth.

40.00 Set an iron post 3 ft. long, 1 in. in diam., 27 ins. in the ground, for the 1/4 sec. cor. of secs. 23 and 26, with brass cap marked



1932

Raise a mound of stone,
4 ft. base, 2 ft. high, N. of cor.

80.00 The cor. of secs. 22, 23, 26, and 27.

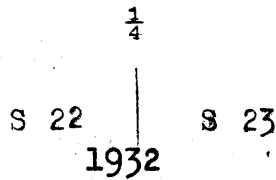
Land, rolling.
Soil, rocky, sandy loose volcanic 4th. rate.
Timber, none.
Undergrowth, sagebrush, cacti, and grass.

N. 0° 01' W., on true line, bet. secs. 22 and 23.

Over rolling land, through scattering undergrowth.

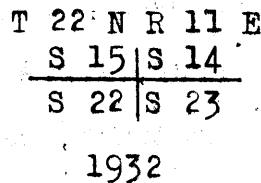
Chains

40.00 Set an iron post 3 ft. long, 1 in. in diam., 27 ins. in the ground, for the $\frac{1}{4}$ sec. cor. of secs. 22 and 23, with brass cap marked



43.10 Draw, 20 lks. wide, course E. Asc. gradual SE slope. raise a mound of stone, 4 ft. base, 2 ft. high, W. of cor.

80.00 Set an iron post 3 ft. long, 2 ins. in diam., 22 ins. in the ground to bedrock, deposit a stone marked with a cross (X) at base of post, in a mound of stone to top, for the cor. of secs. 14, 15, 22, and 23, with brass cap marked



Land, rolling.
Soil, sandy, rocky volcanic 4th. rate.
Timber, none.
Undergrowth, sagebrush, cacti, and grass.

40.00 S. 89° 57'E., on a random line, bet. secs. 14 and 23. Set temp. $\frac{1}{4}$ sec. cor.

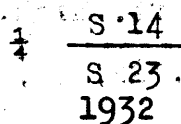
80.04 Intersect the N. and S. line, at 7 lks. S. of the cor. of secs. 13, 14, 23 and 24.

Thence,

West, on a true line, bet. secs. 14 and 23.

Over rolling land, through scattering undergrowth.

40.02 Set an iron post 3 ft. long, 1 in. in diam., 27 ins. in the ground, for the $\frac{1}{4}$ sec. cor. of secs. 14 and 23, with brass cap marked



80.04 raise a mound of stone, 4 ft. base, 2 ft. high, N. of cor. The cor. of secs. 14, 15, 22, and 23.

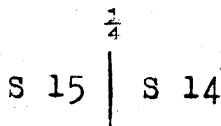
Land, rolling.
Soil, rocky, sandy loose volcanic 4th. rate.
Timber, none.
Undergrowth, sagebrush, cacti, and grass.

Chains

N.0° 01'W., on true line, bet. secs. 14 and 15.

40.00

Set an iron post 3 ft. long, 1 in. in diam., 27 ins. in the ground, for the $\frac{1}{4}$ sec. cor. of secs. 14 and 15, with brass cap marked

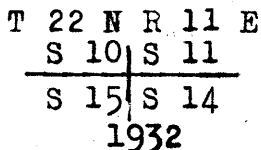


1932

Dig pits 18x18x12 ins. deep, NE, SE, SW, and NW of cor.

80.00

Set an iron post 3 ft. long, 2 ins. in diam., 27 ins. in the ground, for the cor. of secs. 10, 11, 14, and 15, with brass cap marked



of stone, 4 ft. base, 2 ft. high, W. of cor. raise a mound
Land, rolling.
Soil, rocky, sandy, loose volcanic 4th. rate.
Timber, none.
Undergrowth, sagebrush, cacti, and grass.

East, on a random line, bet. secs. 11 and 14.

40.00

Set temp. $\frac{1}{4}$ sec. cor.

80.10

Intersect N. and S. line at 5 lks. N. of the cor. of secs. 11, 12, 13, and 14.

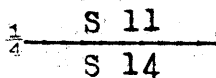
Thence,

N. 89° 58'W., on true line, bet. secs. 11 and 14.

Over rolling land, through scattering undergrowth.

40.05

Set an iron post 3 ft. long, 1 in. in diam., 27 ins. in the ground, for the $\frac{1}{4}$ sec. cor. of secs. 11 and 14, with brass cap marked



1932

Raise a mound of stone, 4 ft. base, 2 ft. high N. of cor. 3 ft. distant.

80.10

The cor. of secs. 10, 11, 14, and 15.

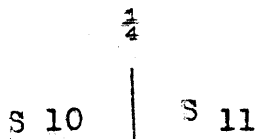
Land, rolling.
Soil, rocky, sandy volcanic 4th. rate.
Timber, none.
Undergrowth, sagebrush, cacti, and grass.

Chains

N.0° 01' W., on true line, bet. secs. 10 and 11.

Over rolling land, through scattering undergrowth.

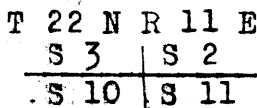
40.00 Set an iron post 3 ft. long, 1 in. in diam., 12 ins. in the ground, to bedrock, deposit a stone marked with a cross (X) at base of post, in a mound of stone to top, for the $\frac{1}{4}$ sec. cor. of secs. 10 and 11, with brass cap marked



1932

46.10 Leupp-Flagstaff road, bears E. and W.

80.00 Set an iron post 3 ft. long, 2 ins. in diam., 12 ins. in the ground to bedrock, deposit a stone marked with a cross (X) at base of post, in a mound of stone to top, for the cor. of secs. 2, 3, 10, and 11, with brass cap marked



1932

Land, rolling.
Soil, sandy, stony, volcanic 4th. rate.
Timber, none.
Undergrowth, sagebrush, cacti, and grass.

S. 89° 58' E., on a random line, bet. secs. 2 and 11.

40.00 Set temp. $\frac{1}{4}$ sec. cor.

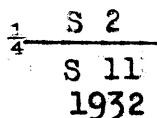
79.98 Intersect N. and S. line, at 4 lks. N. of the cor. of secs. 1, 2, 11, and 12.

Thence,

N. 89° 56' W., on true line, bet. secs. 2 and 11.

Over rolling land, through scattering undergrowth.

39.99 Set an iron post 3 ft. long, 1 in. in diam., 27 ins. in the ground, for the $\frac{1}{4}$ sec. cor. of secs. 2 and 11, with brass cap marked



79.98 of stone, 4 ft. base, 2 ft. high, N. of cor. The cor. of secs. 2, 3, 10, and 11. raise a mound

Land, rolling.
Soil, sandy, stony, loose volcanic 4th. rate.
Timber, none.
Undergrowth, sagebrush, cacti and grass.

Survey of the Subdivision of T. 22 N., R. 11 E. 21

Chains

N.0° 01'W., on a random line, bet. secs. 2 and 3.

40.00 Set temp. $\frac{1}{4}$ sec. con.

80.03 Intersect N. bdy. of Tp., at 9 lks. E. of the cor. of secs. 2, 3, 34, and 35, hereinbefore described.

Thence,

S.0° 05'E., on a true line, bet. secs. 2 and 3.

Over rolling land, through scattering undergrowth.

Asc. 29 ft. over N. slope.

40.03 Set an iron post 3 ft. long, 1 in. in diam., 27 ins. in the ground, for the $\frac{1}{4}$ sec. cor. of secs. 2 and 3, with brass cap marked

$\frac{1}{4}$
 S 3 | S 2
 1932

Raise a mound of stone 4 ft. base, 2 ft. high, W. of cor. 3 ft. distant.

Desc. gradual SE slope.

42.83 Wash, 20 lks. wide, course NE. Asc. gradual N. slope.

57.40 Spur, bears NE. Desc. gradual SE slope.

63.90 Shallow draw, course NE. Asc. 120 ft. over NE slope.

67.40 Edge of mesa, bears NW and SE. Desc. 29 ft. over gradual SE slope.

80.03 The cor. of secs. 2, 3, 10, and 11.

Land, rolling.
 Soil, sandy, stony loose volcanic, 4th. rate.
 Timber, none.
 Undergrowth, sagebrush, cacti, and grass.

From the cor. of secs. 3, 4, 33, and 34, on S. bdy. of Tp., described in field notes of survey of north boundary of T. 21 N., R. 11 E.

N.0° 02'W., on true line, bet. secs. 33 and 34.

Over rolling land, through scattering undergrowth.

Desc. gradual NE slope.

40.00 Set an iron post 3 ft. long, 1 in. in diam., 22 ins. in the ground to bedrock, deposit a stone marked with a cross (X) at base of post, in a mound of stone to top, for the $\frac{1}{4}$ sec. cor. of secs. 33 and 34, with brass cap marked

$\frac{1}{4}$
 S33 | S34
 1932

Chains

50.00 Asc. gradual SE slope.

80.00 Set an iron post 3 ft. long, 2 ins. in diam., 10 ins. in the ground, to bedrock, deposit a stone marked with a cross (X) at base of post, in a mound of stone to top, for the cor. of secs. 27, 28, 33, and 34, with brass cap marked

T 22 N	R 11 E
S 28	S 27
S 33	S 34

1932

Land, rolling.
Soil, rocky, sandy, loose volcanic 4th. rate.
Timber, none.
Undergrowth, sagebrush, cacti and grass.

S.89°59'E., on a random line, bet. secs. 27 and 34.

40.00 Set temp. $\frac{1}{4}$ sec. cor.

80.00 Intersect the cor. of secs. 26, 27, 34, and 35.

Thence,

N.89° 59'W., on true line, bet. secs. 27 and 34.

Over rolling land, through scattering undergrowth.

26.90 Road, bears NW and SE.

40.00 Set an iron post 3 ft. long, 1 in. in diam., 27 ins. in the ground, for the $\frac{1}{4}$ sec. cor. of secs. 27 and 34, with brass cap marked

$\frac{1}{4}$	S 27
	S 34

1932

Raise a mound of
stone 4 ft. base, 2 ft. high, N. of cor., 3 ft. distant.

46.30 Wash, 20 lks. wide, course S.

63.30 Edge of San Francisco Canyon, bears NW and SE. Desc. 63 ft. over broken, steep SW slope.

66.80 Wash, 1 ch. wide, course SE. Asc. 61 ft. over NE slope.

70.50 Edge of canyon, bears NW and SE. Asc. gradual NE slope.

80.00 The cor. of secs. 27, 28, 33, and 34.

Land, rolling and broken.
Soil, rocky 4th. rate.
Timber, none.
Undergrowth, sagebrush, cacti, and grass.

Chains

N.0° 02'W., on true line, bet. secs. 27, and 28.

Over rolling land, through scattering undergrowth.

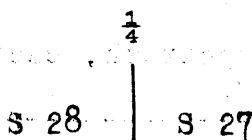
Desc. gradual NE slope.

4.20 Edge of canyon, bears NW and SE. Desc. 50 ft. over vertical wall.

5.45 Wash, in bottom of canyon, (San Francisco canyon) 1 ch. wide, course SE. Asc. 52 ft. over steep SE slope.

23.80 Road, bears E. and W.

40.00 Set an iron post 3 ft. long, 1 in. in diam., 27 ins. in the ground, for the 1/4 sec. cor. of secs. 27 and 28, with brass cap marked



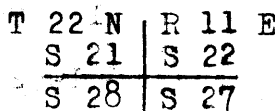
1932

Dig pits, 18 x 18 x 12 ins. N. and S. of cor., 3 ft. distant.

55.00 Ridge, bears NW and SE. Desc. gradual N. slope.

77.00 Swale; drains E. Asc. gradual SE slope.

80.00 Set an iron post 3 ft. long, 2 ins. in diam., 27 ins. in the ground, for the cor. of secs. 21, 22, 27, and 28, with brass cap marked



1932

raise a mound of stone, 4 ft. base, 2 ft. high W. of cor. Land, rolling and broken. Soil, rocky, sandy loose volcanic 4th. rate. Timber, none. Undergrowth, sagebrush, cacti, and grass.

S.89° 59'E., on a random line, bet. secs. 22 and 27.

40.00 Set temp. 1/4 sec. cor.

80.00 Intersect N. and S. line, at 2 lks. N. of the cor. of secs. 22, 23, 26, and 27.

Thence,

N.89° 58'W., on a true line, bet. secs. 22 and 27.

Over rolling land, through scattering undergrowth.

35.00 Asc. gradual SE slope.

Chains

40.00 Set an iron post, 3 ft. long, 1 in. in diam., 20 ins. in the ground, to bedrock, deposit a stone marked with a cross (X) at base of post, in a mound of stone to top, for the $\frac{1}{4}$ sec. cor. of secs. 22 and 27, with brass cap marked

$$\frac{1}{4} \begin{array}{c} \text{S 22} \\ \hline \text{S 27} \end{array}$$

1932

60.00 Swale, drains NE.

80.00 The cor. of secs. 21, 22, 27, and 28.

Land, rolling.

Soil, rocky, sandy 4th. rate.

Timber, none.

Undergrowth, sagebrush, cacti, and grass.

N.0°02'W., on true line, bet. secs. 21 and 22.

Over rolling land, through scattering undergrowth.

Asc. gradual S. slope.

40.00 Set an iron post 3 ft. long, 1 in. in diam., 27 ins. in the ground, for the $\frac{1}{4}$ sec. cor. of secs. 21 and 22, with brass cap marked

$$\frac{1}{4} \begin{array}{c} \text{S 21} \quad | \quad \text{S 22} \end{array}$$

1932

4 ft. base, 2 ft. high, W. of cor. 3 ft. distant. Raise a mound of stone

Asc. 81 ft. over SE slope, to cor.

64.50 Wash, 10 lks. wide, course E.

80.00 Set an iron post 3 ft. long, 2 ins. in diam., on bedrock, deposit a stone marked with a cross (X) at base of post, in a mound of stone to top, for the cor. of secs. 15, 16, 21, and 22, with brass cap marked

$$\begin{array}{c} \text{T 22 N R 11 E} \\ \text{S 16} \quad | \quad \text{S 15} \\ \hline \text{S 21} \quad | \quad \text{S 22} \end{array}$$

1932

Land, rolling.

Soil, rocky, sandy, loose volcanic 4th. rate.

Timber, none.

Undergrowth, sagebrush, cacti, and grass.

Survey of the Subdivision of T. 22 N., R. 11 E. 25

Chains

S. 89° 58' E., on a random line, bet. secs. 15 and 22.

40.00 Set temp. $\frac{1}{4}$ sec. cor.

80.08 Intersect N. and S. line, at 5 lks. S. of the cor. of secs. 14, 15, 22, and 23.

Thence,

West, on true line, bet. secs. 15 and 22.

Over rolling land, through scattering undergrowth.

40.04 Set an iron post 3 ft. long, 1 in. in diam., 27 ins. in the ground, for the $\frac{1}{4}$ sec. cor. of secs. 15 and 22, with brass cap marked

$\frac{1}{4}$ S 15
 S 22
 1932

Dig pits, 18 x 18 x 12 ins. E. and W. of cor., 3 ft. distant.

80.08 The cor. of secs. 15, 16, 21, and 22.

Land, rolling.
 Soil, sandy, rocky volcanic 4th. rate.
 Timber, none.
 Undergrowth, sagebrush, cacti, and grass.

N. 0° 02' W., on true line, bet. secs. 15 and 16.

Over rolling land, through scattering undergrowth.

5.00 Spur, bears SE.

18.00 Desc. gradual NE slope.

30.00 Swale, drains E. Asc. 21 ft. over SE slope.

33.50 Small spur, bears E. Desc. gradual NE slope.

40.00 Set an iron post 3 ft. long, 1 in. in diam., 18 ins. in the ground to bedrock, deposit a stone marked with a cross (X) at base of post, in a mound of stone to top, for the $\frac{1}{4}$ sec. cor. of secs. 15 and 16, with brass cap marked

$\frac{1}{4}$
 S 16 | S 15
 1932

80.00 Set an iron post 3 ft. long, 2 ins. in diam., 27 ins. in the ground, for the cor. of secs. 9, 10, 15, and 16, with brass cap marked

T 22 N R 11 E
 S 9 | S 10
 S 16 | S 15
 1932

dig pits,
 18 x 18 x 12 ins., in each sec., 3 ft. dist.

Chains

Land, rolling.
 Soil, rocky, sandy volcanic, 4th. rate.
 Timber, none.
 Undergrowth, sagebrush, cacti, and grass.

East, on random line, bet. secs. 10 and 15.

40.00 Set temp. $\frac{1}{4}$ sec. cor.

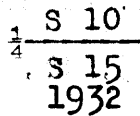
80.06 Intersect N. and S. line, at 5 lks. S. of the cor. of secs. 10, 11, 14, and 15.

Thence,

S.89° 58'W., on true line, bet. secs. 10 and 15.

Over rolling land, through scattering undergrowth.

40.03 Set an iron post 3 ft. long, 1 in. in diam., 27 ins. in the ground, for the $\frac{1}{4}$ sec. cor. of secs. 10 and 15, with brass cap marked



raise a mound

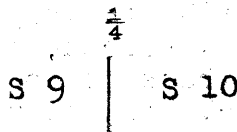
80.06 The cor. of secs. 9, 10, 15, and 16.
of stone, 4 ft. base, 2 ft. high, N. of cor.

Land, rolling.
 Soil, sandy, rocky volcanic 4th. rate.
 Timber, none.
 Undergrowth, sagebrush, cacti, and grass.

N.0° 02'W., on true line, bet. secs. 9 and 10.

Over rolling land, through scattering undergrowth.

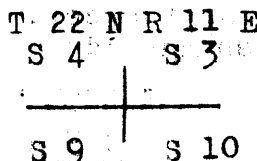
40.00 Set an iron post 3 ft. long, 1 in. in diam., 27 ins. in the ground, for the $\frac{1}{4}$ sec. cor. of secs. 9 and 10, with brass cap marked



1932

64.00 Dig pits, 18 x 18 x 12 ins. N. and S. of cor. 3 ft. dist. Leupp road, bears, E. and W.

80.00 Set an iron post 3 ft. long, 2 ins. in diam., 27 ins. in the ground, for the cor. of secs. 3, 4, 9, and 10, with brass cap marked



1932

raise a mound

of stone, 4 ft. base, 2 ft. high, W. of cor.

Survey of the Subdivision of T. 22 N., R. 11 E.

Chains

Land, rolling.
Soil, sandy, stony volcanic 4th. rate.
Timber, none.
Undergrowth, sagebrush, cacti, and grass.

N.89° 58'E., on a random line, bet. secs. 3 and 10.

40.00 Set temp. 1/4 sec. cor.

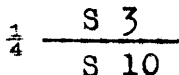
80.12 Intersect N. and S. line, at 2 lks. N. of the cor. of secs. 2, 3, 10, and 11.

Thence,

S.89° 59'W., on true line, bet. secs. 3 and 10.

Over rolling land, through scattering undergrowth.

40.06 Set an iron post 3 ft. long, 1 in. in diam., 27 ins. in the ground, for the 1/4 sec. cor. of secs. 3 and 10, with brass cap marked



1932

Raise a mound of stone 4 ft. base, 2 ft. high, N. of cor. 3 ft. distant.

80.12 The cor. of secs. 3, 4, 9, and 10.

Land, rolling.
Soil, sandy, rocky volcanic 4th. rate.
Timber, none.
Undergrowth, sagebrush, cacti, and grass.

N.0° 02'W., on random line, bet. secs. 3 and 4.

40.00 Set temp. 1/4 sec. cor.

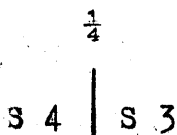
80.04 Intersect N. bdy. of Tp., at 12 lks. W. of the cor. of secs. 4, 5, 32, and 33, hereinbefore described.

Thence,

S.0° 03'W., on true line, bet. secs. 3 and 4.

Over rolling land, through scattering undergrowth.

40.04 Set an iron post 3 ft. long, 1 in. in diam., 12 ins. in the ground, to bedrock, deposit a stone marked with a cross (X) at base of post, in a mound of stone to top, for the 1/4 sec. cor. of secs. 3 and 4, with brass cap marked



1932

Chains

53.00 Rocky knoll. 10 ft. high, 1 ch. in diam., on line.

80.04 The cor. of secs. 3, 4, 9, and 10.

Land, rolling.

Soil, sandy, stony volcanic 4th. rate.

Timber, none.

Undergrowth, sagebrush, cacti and grass.

From the cor. of secs. 4, 5, 32 and 33, on S. bdy. of Tp., described in field notes of N. bdy. of T. 21 N., R. 11 E. N. 0° 02' W., on true line, bet. secs. 32 and 33.

Over rolling land, through scattering undergrowth.

10.00 Asc. 29 ft. over SE slope.

15.00 Edge of mesa, brs. NE. and SW.

40.00 Set an iron post 3 ft. long, 1 in. in diam., 16 ins. in the ground to bedrock, deposit a stone marked with a cross (X) at base of post, in a mound of stone to top, for the $\frac{1}{4}$ sec. cor. of secs. 32 and 33, with brass cap marked $\frac{1}{4}$

S 32 | S 33

1932

80.00 Set an iron post 3 ft. long, 2 ins. in diam., 12 ins. in the ground, to bedrock, deposit a stone marked with a cross (X) at base of post, in a mound of stone to top, for the cor. of secs. 28, 29, 32, and 33, with brass cap marked

T 22 N R 11 E

S 29 | S 28

S 32 | S 33

1932

Land, rolling.

Soil, rocky, sandy gravelly volcanic, 4th. rate.

Timber, none.

Undergrowth, sagebrush, cacti, and grass.

S. 89° 59' E., on a random line, bet. secs. 28 and 33.

40.00 Set temp. $\frac{1}{4}$ sec. cor.

79.96 Intersect N. and S. line, at 5 lks. N. of the cor. of secs. 27, 28, 33, and 34.

Thence,

N. 89° 57' W., on true line, bet. secs. 28 and 33.

Over rolling land, through scattering undergrowth.

Survey of the Subdivision of T. 22 N., R. 11 E.

Chains	
39.98	Set an iron post 3 ft. long, 1 in. in diam., 20 ins. in the ground, to bedrock, deposit a stone marked with a cross (X) at base of post, in a mound of stone to top, for the $\frac{1}{4}$ sec. cor. of secs. 28 and 33, with brass cap marked
	$\begin{array}{c} \frac{1}{4} \text{ S } 28 \\ \hline \text{S } 33 \end{array}$
	1932
79.96	The cor. of secs. 28, 29, 32, and 33. Land, rolling. Soil, sandy, stony volcanic 4th. rate. Timber, none. Undergrowth, sagebrush, cacti, and grass.
24.70	N. 89° 52' W., on true line, bet. secs. 29 and 32, towards flag visible on objective corner. Over rolling land, through scattering undergrowth. Intersect the seven mile cor. on W. bdy. of Navajo Indian Reservation, which is an iron post 3 ins. in diam., firmly set, projecting 12 ins. above ground, with brass cap properly marked and witnessed by pits NE, SE, SW and NW of cor. Land, rolling. Soil, sandy, stony volcanic 4th. rate. Timber, none. Undergrowth, sagebrush, cacti, and grass.
23.00	N. 0° 02' W., on true line, bet. secs. 28 and 29. Over rolling land, through scattering undergrowth. Wash, 1 ch. wide, 55 ft. deep, course SE. Asc. gradual SE slope.
31.75	Road, bears E. and W.
40.00	Set an iron post 3 ft. long, 1 in. in diam., 27 ins. in the ground, for the $\frac{1}{4}$ sec. cor. of secs. 28 and 29, with brass cap marked
	$\begin{array}{c} \frac{1}{4} \\ \text{S } 29 \quad \quad \text{S } 28 \\ \hline 1932 \end{array}$
80.00	Set an iron post 3 ft. long, 2 ins. in diam., 27 ins. in the ground, for the cor. of secs. 20, 21, 28, and 29, with brass cap marked of stone, 4 ft. base, 2 ft. high, W. of cor. raise a mound
	$\begin{array}{c} \text{T } 22 \text{ N } \text{R } 11 \text{ E} \\ \text{S } 20 \quad \quad \text{S } 21 \\ \hline \text{S } 29 \quad \quad \text{S } 28 \\ \hline 1932 \end{array}$
	of stone, 4 ft. base, 2 ft. high, W. of cor. raise a mound

Chains

Land, rolling.
Soil, rocky, sandy gravelly volcanic 4th. rate.
Timber, none.
Undergrowth, sagebrush, cacti, and grass.

S. 89° 57' E., on a random line, bet. secs. 21 and 28.

40.00 Set temp. $\frac{1}{4}$ sec. cor.

79.96 Intersect N. and S. line, at 7 lks. S. of the cor. of secs. 21, 22, 27, and 28.

Thence,

West, on a true line, bet. secs. 21 and 28.

Over rolling land, through scattering undergrowth.

39.98 Set an iron post 3 ft. long, 1 in. in diam., 27 ins. in the ground, for the $\frac{1}{4}$ sec. cor. of secs. 21 and 28, with brass cap marked

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

1932

of stone, 4 ft. base, 2 ft. high W. of cor. raise a mound

79.96 The cor. of secs. 20, 21, 28, and 29.

Land, rolling.
Soil, sandy, stony volcanic 4th. rate.
Timber, none.
Undergrowth, sagebrush, cacti, and grass.

N. 89° 48' W., on true line, bet. secs. 20 and 29, towards flag visible on objective corner.

Over rolling land, through scattering undergrowth.

24.61 Intersect the eight mile corner on the Navajo Indian Reservation W. bdy., which is an iron post 3 ins. in diam., firmly set, properly marked and witnessed by pits NE, SE, SW and NW of corner.

Land, rolling.
Soil, sandy, volcanic 4th. rate.
Timber, none.
Undergrowth, sagebrush, cacti, and grass.

N. 0° 02' W., on true line, bet. secs. 20 and 21.

Over rolling land, through scattering undergrowth.

Desc. gradual NE slope.

2.80 Swale, drains NE. Asc. gradual SE slope.

40.00 Set an iron post 3 ft. long, 1 in. in diam., 27 ins. in the ground, for the $\frac{1}{4}$ sec. cor. of secs. 20 and 21, with brass cap marked

Survey of the Subdivision of T. 22 N., R. 11 E.

Chains

S 20 | S 21

60.00 1932 raise a mound of stone, 4 ft. base, 2 ft. high, W. of cor. Asc. 126 ft. over SE slope.

80.00 Set an iron post 3 ft. long, 2 ins. in diam., 14 ins. in the ground, to bedrock, deposit a stone marked with a cross (X) at base of post, in a mound of stone to top, for the cor. of secs. 16, 17, 20, and 21, with brass cap marked

T 22 N R 11 E
S 17 | S 16
S 20 | S 21

1932

Land, rolling.
Soil, sandy, rocky volcanic 4th. rate.
Timber, none.
Undergrowth, sagebrush, cacti, and grass.

40.00 East, on a random line, bet. secs. 16 and 21. Set temp. 1/4 sec. cor.

80.06 Intersect the cor. of secs. 15, 16, 21 and 22.

Thence,

West, on a true line, bet. secs. 16 and 21.

Over rolling land, through scattering undergrowth.

40.03 Set an iron post 3 ft. long, 1 in. in diam., 27 ins. in the ground, for the 1/4 sec. cor. of secs. 16 and 21, with brass cap marked

1/4 S 16
S 21

1932

Raise a mound of stone 4 ft. base, 2 ft. high N. of cor.

62.00 Asc. 96 ft. over steep SE slope.

67.50 Edge of mesa, bears NE and NW. Desc. 68 ft. over SW slope.

76.70 Draw, 20 lks. wide, course SE. Asc. 31 ft. over SE slope.

80.06 The cor. of secs. 16, 17, 20, and 21.

Land, rolling.
Soil, sandy, stony 4th. rate.
Timber, none.
Undergrowth, sagebrush, cacti, and grass.

Chains

N.89° 54'W., on true line, bet. secs. 17 and 20, towards flag visible on objective corner.

Over rolling land, through scattering undergrowth.

Asc. 39 ft. over SE slope.

1.80 Edge of mesa, bears NE and SW.

24.47 Intersect the nine mile corner on W. bdy. of Navajo Indian Reservation, which is an iron post 3 ins. in diam., firmly set, projecting 4 ins. above ground, firmly set, marked properly and witnessed by pits NE, SE, SW and NW of cor.

Land, rolling.

Soil, sandy, stony volcanic 4th. rate.

Timber, none.

Undergrowth, sagebrush, cacti, and grass.

N.0° 02'W.; on true line, bet. secs. 16 and 17.

Over rolling land, through scattering undergrowth.

Asc. gradual SE slope.

10.00 Edge of mesa, bears SE and SW.

40.00 Set an iron post 3 ft. long, 1 in. in diam., 27 ins. in the ground, for the $\frac{1}{4}$ sec. cor. of secs. 16 and 17, with brass cap marked

$\frac{1}{4}$

S 17 | S 16

1932

Dig pits 18 x 18 x 12 ins. N. and S. of cor. 3 ft. distant.

80.00 Set an iron post 3 ft. long, 2 ins. in diam., 10 ins. in the ground to bedrock, deposit a stone marked with a cross (X) at base of post, in a mound of stone to top, for the cor. of secs. 8, 9, 16, and 17, with brass cap marked

T 22 N R 11 E

S 8 | S 9

S 17 | S 16

1932

Land, rolling.

Soil, sandy, stony 4th. rate.

Timber, none.

Undergrowth, sagebrush, cacti, and grass.

Survey of the Subdivision of T. 22 N., R. 11 E. 33

Chains

East, on a random line, bet. secs. 9 and 16.

40.00 Set temp. $\frac{1}{4}$ sec. cor.

80.04 Intersect the cor. of secs. 9, 10, 15, and 16.

Thence,

West, on a true line, bet. secs. 9 and 16.

Over rolling land, through scattering undergrowth.

Asc. 20 ft. over gradual NE slope.

40.02 Set an iron post 3 ft. long, 1 in. in diam., 27 ins. in the ground, for the $\frac{1}{4}$ sec. cor. of secs. 9 and 16, with brass cap marked

$$\frac{\frac{1}{4} \text{ S } 9}{\text{S } 16}$$

1932

Raise a mound of stone 4 ft. base, 2 ft. high N. of cor.

55.00 Asc. 109 ft. over gradual NE slope.

70.00 Top of ascent, thence over level land.

80.04 The cor. of secs. 8, 9, 16, and 17.

Land, rolling.

Soil, sandy, stony 4th. rate.

Timber, none.

Undergrowth, sagebrush, cacti, and grass.

N. 89° 49' W., on true line, bet. secs. 8 and 17, towards flag visible on objective corner.

Over rolling land, through scattering undergrowth.

24.41 Intersect the ten mile corner on W. bdy. of Navajo Indian reservation, which is an iron post 3 ins. in diam., firmly set, projecting 8 ins. above ground, properly marked and witnessed by pits NE, SE, SW and NW of cor.

Land, rolling.

Soil, sandy, stony 4th. rate.

Timber, none.

Undergrowth, sagebrush, cacti, and grass.

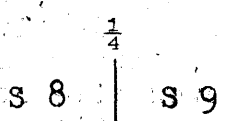
N. 0° 02' W., on true line, bet. secs. 8 and 9.

Over rolling land, through scattering undergrowth.

5.00 Desc. 86 ft. over NE slope.

25.00 Foot of descent, thence over level land.

40.00 Set an iron post 3 ft. long, 1 in. in diam., 27 ins. in the ground, for the $\frac{1}{4}$ sec. cor. of secs. 8 and 9, with brass cap marked



1932

Chains

Dig pits 18 x 18 x 12 ins. N. and S. of cor., 3 ft. distant.

62.90 Road, bears NE and SW.

80.00 Set an iron post 3 ft. long, 2 ins. in diam., 27 ins. in the ground, for the cor. of secs. 4, 5, 8, and 9, with brass cap marked

T 22 N R. 11 E	
S 5	S 4
S 8	S 9
1932	

18 x 18 x 12 ins., in each sec., 3 ft. distant. dig pits,
Land, rolling.
Soil, sandy, stony 4th. rate.
Timber, none.
Undergrowth, sagebrush, cacti, and grass.

East, on a random line, bet. secs. 4 and 9.

40.00 Set temp. $\frac{1}{4}$ sec. cor.

80.08 Intersect N. and S. line, at 5 lks. N. of the cor. of secs. 3, 4, 9, and 10.

Thence,

N. 89° 58' W., on true line, bet. secs. 4 and 9.

Over rolling land, through scattering undergrowth.

24.50 Knoll, 50 lks. wide, on line, about 20 ft. high.

40.04 Set an iron post 3 ft. long, 1 in. in diam., 27 ins. in the ground, for the $\frac{1}{4}$ sec. cor. of secs. 4 and 9, with brass cap marked

$\frac{1}{4}$ S 4
S 9

1932

Dig pits 18 x 18 x 12 ins., E. and W. of cor., 3 ft. distant.

62.20 Leupp road, bears NW and SE.

80.08 The cor. of secs. 4, 5, 8, and 9.

Land, rolling.

Soil, sandy, stony 4th. rate.

Timber, none.

Undergrowth, sagebrush, cacti, and grass.

N. 89° 46' W., on true line, bet. secs. 5 and 8, towards flag visible on objective cor.

Over rolling land, through scattering undergrowth.

24.40 Intersect the eleven mile corner on W. bdy. of the Navajo Indian reservation, which is an iron post 3 ins.

Survey of the Subdivision of T. 22 N., R. 11 E. 35

Chains

in diam., firmly set, projecting 3 ins. above ground with brass cap properly marked, and witnessed by pits NE, SE, SW and NW of cor.

Land, rolling.
Soil, sandy, stony volcanic 4th. rate.
Timber, none.
Undergrowth, sagebrush, cacti, and grass.

N.0° 02'W., on a random line, bet. secs. 4 and 5.

40.00 Set temp. 1/4 sec. cor.

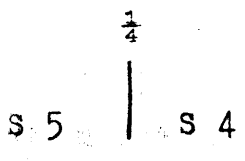
80.07 Intersect N. bdy. of Tp., at 5 lks. W. of the cor. of secs. 4, 5, 32, and 33, hereinbefore described.

Thence,

South, on true line, bet. secs. 4 and 5.

Over rolling land, through scattering undergrowth.

40.07 Set an iron post 3 ft. long, 1 in. in diam., 27 ins. in the ground, for the 1/2 sec. cor. of secs. 4 and 5, with brass cap marked



1932
Dig pits 18 x 18 x 12 ins., N. and S. of cor., 3 ft. distant.

75.00 Leupp highway, bears NW and SE.

80.07 The cor. of secs. 4, 5, 8, and 9.

Land, rolling.
Soil, sandy, stony volcanic 4th. rate.
Timber, none.
Undergrowth, sagebrush, cacti, and grass.

WEST BDY. NAVAJO INDIAN RESERVATION

In the course of completion of the survey of T. 22 N., R. 11 E., retrace the W. bdy. of the Navajo Indian Reservation, and find the courses and distances in substantial agreement with the record, rehabilitating the 1/2 sec. cors. for sec. 32 and sec. 5.

GENERAL DESCRIPTION.

All the lands embraced within this fractional township are rolling in character, with drainage towards the the Little Colorado River. The lands range from about 4500 to 5000 ft. above sea level.

The lands are volcanic and the soil found thereon is mostly volcanic, sandy dust, with very little earth to be found anywhere.

No timber grows within the part of Tp. surveyed. The undergrowth consists of sagebrush, rabbitweed, cacti and with also a fair growth of bunch and other species of grass peculiar to this region.

Settlement is confined to a few Navajo Indians, who live in earth and stone hogans. In section 25 are noted some improvements consisting of a closed well pipe, (about 500 ft. to water), a small house, an earth and stone reservoir (dry at time of survey), and a wire fence about these improvements; which are the property of the Babbitt Bros. Trading Company of Flagstaff, Arizona. No other signs of water are found in the Tp.

The highway, from Flagstaff to Leupp Navajo Agency, crosses the Tp., in an E. and W. direction.

No mineral was noted. The lands are fit only for grazing and are being so used by the Indians.

Final Field Test
of
Young & Sons Transit No. 8540
by
Benjamin J. Kinsey, U.S.S.

July, 7, 1932: at same station near the $\frac{1}{2}$ sec. cor. of sec. 30, W. bdy., T. 22 N., R. 10 E., G. and SR Base and Meridian, Arizona, as hereinbefore described.

At 9h.00m., a.m., app. t., set off $35^{\circ} 16' N.$, on the lat. arc, $22^{\circ} 35' N.$, on decl. arc, and determine a meridian with the solar which agrees with the true meridian.

At 12h.00m., app. noon, with lat. arc unchanged, observe the sun on the meridian; the resultant reading of the decl. arc is $22^{\circ} 33\frac{1}{2}' N.$, which agrees with the computed declination of the sun.

At 3h. 00m., p.m., app. t., with lat. arc unchanged, set off $22^{\circ} 33' N.$ on the decl. arc and determine a meridian with the solar which agrees with the true meridian.

As all of the obsns. taken during the usual hours of solar work, agree within 1' of the true meridian, conclude that the adjustments of the instrument have been maintained during the surveys described in the foregoing notes.

BOOK 3942

4-680
(August, 1926)

FIELD ASSISTANTS.

NAMES.	CAPACITY.
Herman Shafer	1st Chainman
William Shafer	2nd Chainman
Jim B. Chumbley	Flagman
Lester I. Parker	Moundsman
Luther Selby	Axeman

CERTIFICATE OF UNITED STATES SURVEYOR.

I, Benjamin J. Kinsey, U. S. Surveyor, hereby certify upon honor that, in pursuance of special instructions received from the District Cadastral Engineer for Arizona bearing date of the 14th day of May, 1932, 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

East Boundary, North Boundary, and Subdivisional Lines of

Township 22 North, Range 11 East of the Gila and Salt River Base and Meridian, in the State of Arizona, which are represented in 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 District Cadastral Engineer for Arizona and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey.

Place: Phoenix, Arizona.

Date: July 27, 1932.

Benjamin J. Kinsey
U. S. Surveyor

APPROVAL.

OFFICE OF U. S. SUPERVISOR OF SURVEYS,

Denver, Colo., NOV - 4 1932, 193

The foregoing field notes of the survey of

East Boundary, North Boundary, and Subdivisional Lines of

Township 22 North, Range 11 East

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

executed by Benjamin J. Kinsey, U.S. Surveyor

under his special instructions dated May 14, 1932, for Group 177, Arizona, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

Monte A. Roman
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.