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4-270  
(April 1933)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GENERAL LAND OFFICE

BOOK 4270

# FIELD NOTES

OF SURVEY OF

THE THIRD STANDARD PARALLEL SOUTH

thru Ranges 3, 4, 5, 6, 7, 8, 9, 10, and frac. 11 W.,

being the South boundaries of

Township 15 South, Range 3 West,

Township 15 South, Range 4 West,

Township 15 South, Range 5 West,

Township 15 South, Range 6 West,

Township 15 South, Range 7 West,

Township 15 South, Range 8 West,

Township 15 South, Range 9 West,

Township 15 South, Range 10 West,

and Fractional Township 15 South, Range 11 West

Of the Gila and Salt River Meridian,

In the State of ARIZONA

### EXECUTED BY

Benjamin J. Kinsey, Cadastral Engineer

Under special instructions dated October 27, 1939, which provided for the surveys included under Group No. 230, Arizona, bearing the approval of the Commissioner of the General Land Office under date of November 7, 1939 and assignment instructions dated November 6, 1939

Survey commenced December 2, 1939

Survey completed April 2, 1940

4270

# INDEX DIAGRAM.

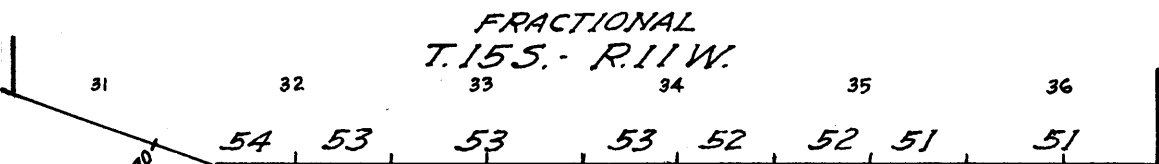
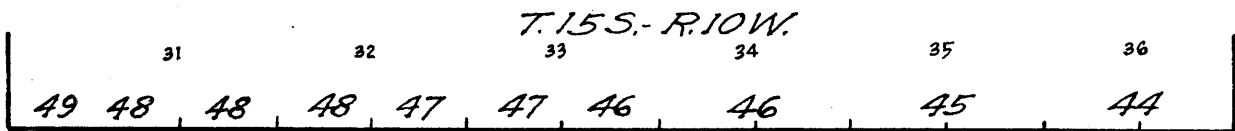
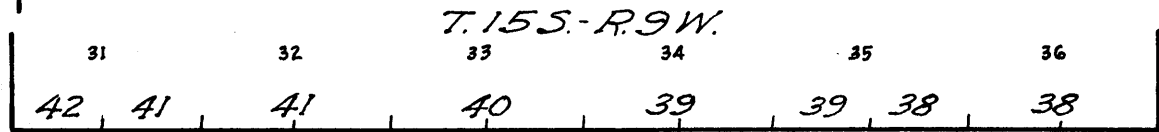
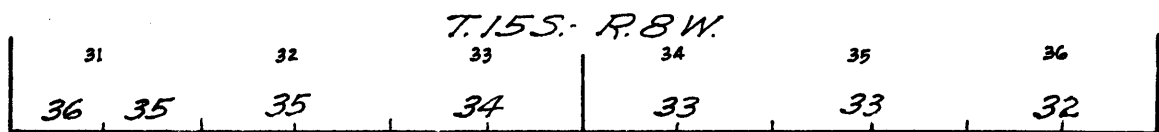
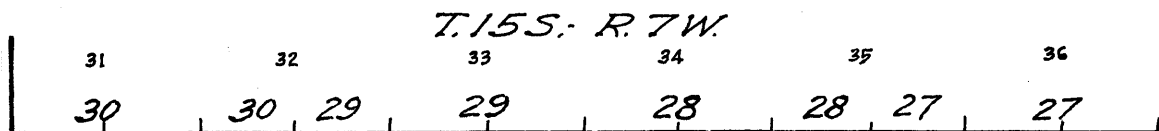
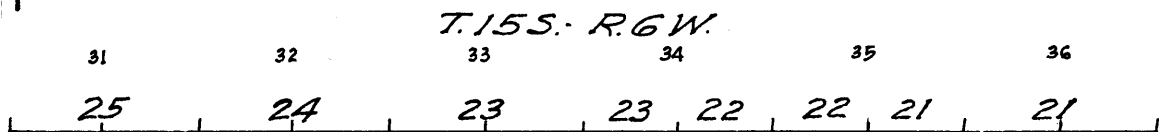
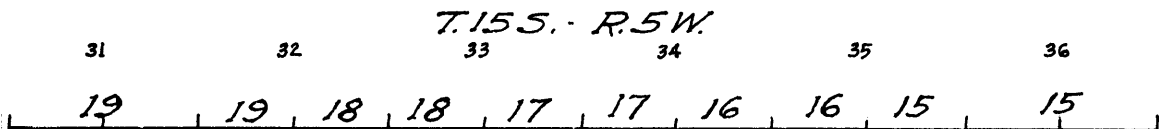
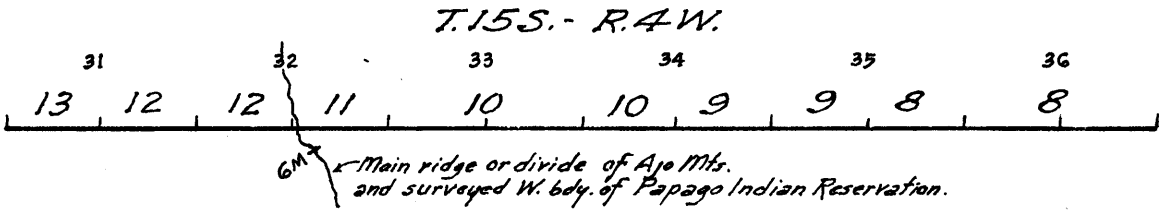
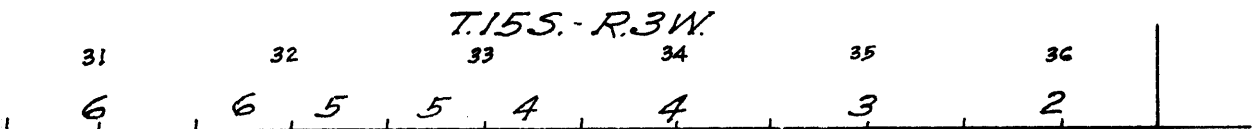
Township \_\_\_\_\_, Range \_\_\_\_\_

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

1A

# ~INDEX-DIAGRAM~

BOOK 4270



MEXICO

— Lines of accepted surveys.

— Lines surveyed under this group.

*Accepted by Congress as to 1861*

The surveys herein described were executed by Benjamin J. Kinsey, Cadastral Engineer, using Buff transit No. 18000. This instrument is equipped with an improved Smith solar attachment, and otherwise conforms to the standard specifications of the General Land Office. The instrument was examined and tested by the District Cadastral Engineer for Arizona and California prior to the beginning of the surveys of this group, and was approved conditional upon satisfactory results of field tests of same.

The azimuths of all of the lines of survey herein described were determined with the solar attachment.

All measurements were made with a Lufkin steel tape, 5 chs. in length, graduated every link for the first 100 lks., and the remainder at intervals of 10 lks. The tape was tested by comparison with a Lufkin standard tape and found correct. All of the measurements were made on the slope, the vertical angle of each interval determined with a clinometer in good adjustment, and the horizontal equivalents entered in the field notes.

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PRELIMINARY FIELD TEST OF INSTRUMENT.

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December 2, 1939; at station in camp, about 20 chs. south of the std.  $\frac{1}{4}$  sec. cor. of sec. 34, T.15 S., R.4 W., G. & S.R. meridian, Arizona, latitude  $32^{\circ}04'N.$ , and longitude  $112^{\circ}40'W.$ ; examine the adjustments of Buff transit No. 18000 and find no errors. Then, to test the workings of the solar apparatus, proceed as follows:

At 9h. 00m., p.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 in top of a stake driven firmly in the ground about 5 chs. N.

Azimuth of Polaris at eastern elongation :  $1^{\circ}12'$ .

December 3, 1939; at 7h. 00m., a.m., lay off the azimuth of Polaris  $1^{\circ}12'$  to the west and mark a point in the true meridian thus determined by a tack in a stake driven firmly in the ground about 5 chs. N.

At 9h. 00m., a.m., app. t., set off  $32^{\circ}04'N.$  on the latitude arc;  $22^{\circ}00'S.$  on the declination arc; and determine a meridian with the solar, which agrees with the true meridian.

At app. noon, with the latitude arc unchanged; observe the sun on the meridian and obtain a reading of  $22^{\circ}01'S.$  on the declination arc, which agrees with the computed declination of the sun.

At 3h. 00m., p.m., app. t., with the latitude arc unchanged; set off  $22^{\circ}02'S.$  on the declination 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  $1'30''$  of the true meridian, conclude that this instrument is in satisfactory adjustment on this date, prior to the beginning of the surveys herein described.

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2

Survey: 3rd Standard Parallel South, thru R. 3 W.

chains	<p>The std. cor. of T<sub>s</sub>.15 S., R<sub>s</sub>.2 and 3 W., established in 1918, is an iron post, 3 ins. in diam., projecting 12 ins. above ground, firmly set, marked on brass cap and witnessed as described in the official record, from which, A bald, high peak in the main ridge of the Ajo Mountains about 1½ miles southeasterly from Montezuma Head, bears N.75°52'W.</p> <p>A prominent peak in the Ajo Mountains, bears S.24°47'W., about 10 miles dist.</p> <p>Baboquivari Peak, elevation 7740 ft. above sea level, bears S.68°40'E., about 60 miles dist.</p> <p>From above described std. Tp. cor., West, on S. bdy. of sec. 36.</p> <p>Over nearly level land, thru very scattering medium size timber, and scattering undergrowth.</p>
25.00	Road, bears N.80°W. and S.80°E.
40.00	<p>Set an iron post, 3 ft. long, 1 in. in diam., 28 ins. in the ground, for std. ¼ sec. cor., with brass cap marked</p> <p style="text-align: center;">SC ¼ S36 1939</p> <p style="text-align: right;">from which</p> <p>A mesquite, 6 ins. diam., bears N.84½°W., 355 lks. dist., marked SC ¼ S36 BT</p> <p>A mesquite, 6 ins. diam., bears N.64°E., 376 lks. dist., marked SC ¼ S36 BT</p>
80.00	<p>Set an iron post; 3 ft. long, 2 ins. in diam., 28 ins. in the ground, for std. cor. of secs. 35 and 36, with brass cap marked</p> <p style="text-align: center;">SC T15S R3W S35 S36 1939</p> <p style="text-align: right;">from which</p> <p>A mesquite stump, 12 ins. diam., 5 ft. high, bears N.10° W., 469 lks. dist., marked BT only.</p> <p>A mesquite, 6 ins. diam., bears N.60°E., 482 lks. dist., marked T15S R3W S36 SC BT.</p> <p>A bald, high peak in the main ridge of the Ajo Mountains about 1½ miles southeasterly from Montezuma Head, bears N.74½°W.</p> <p>Baboquivari Peak bears S.68°55'E., about 61 miles dist.</p> <p>A saddle topped mountain in the Ajo Mountains bears S.48°47'W.</p> <p>Land, nearly level. Soil, sandy loam, 2nd rate, 2½ ft. to hard pan. Timber, mesquite. Undergrowth, greasewood, sagebrush, cacti, scrub paloverde and native weeds.</p>

Survey: 3rd Standard Parallel South, thru R. 3 W.

3

chains West, on S. bdy. of sec. 35.

Over nearly level land, thru very scattering timber and scattering undergrowth.

1.10 Road, bears NE. and SW.

34.20 Road, bears NE. and SW.

40.00 Set an iron post, 3 ft. long, 1 in. in diam., 24 ins. in the ground, for std.  $\frac{1}{4}$  sec. cor., with brass cap marked,

SC  
 $\frac{1}{4}$  S35  
1939

from which

A mesquite, 4 ins. diam., bears N.  $18\frac{1}{2}^{\circ}$ E., 189 lks. dist., marked SC  $\frac{1}{4}$  S35 BT.

No other bearing tree available.

East end of church at Kerwo Indian village bears S.  $47^{\circ}25'$ W.

A high peak in the main ridge of the Ajo Mountains bears S.  $46^{\circ}22'$ W., about 10 miles dist.

A bald, high peak in same ridge bears N.  $73\frac{1}{4}^{\circ}$ W. about 8 miles dist.

Baboquivari Peak bears S.  $70^{\circ}05'$ E., about  $61\frac{1}{2}$  miles dist.

59.50 Road, bears NE. and SW.

80.00 Set an iron post, 3 ft. long, 2 ins. in diam., 24 ins. in the ground, with a stone marked with a cross (X) deposited at base, and in a small mound of stone to top, for std. cor. of secs. 34 and 35, with brass cap marked

SC  
T15S R3W  
S34 | S35  
1939

No bearing trees available.

Cross on church at Kerwo bears S.  $22^{\circ}41'$ W.

East end of school at Kerwo bears S.  $58^{\circ}$ W.

Baboquivari Peak bears S.  $70\frac{1}{4}^{\circ}$ E. about 62 miles dist.

A bald, high peak in the main ridge of the Ajo Mountains bears N.  $72\frac{1}{4}^{\circ}$ W., about  $7\frac{1}{2}$  miles dist.

Another high peak in same ridge bears S.  $44\frac{1}{2}^{\circ}$ W. about 9 miles dist.

Land, nearly level.  
Soil, sandy, 2nd rate.  
Timber, mesquite.  
Undergrowth, greasewood, sagebrush, scrub paloverde and cacti.

## BOOK 4270

Survey: 3rd Standard Parallel South thru R. 3 W.

4

chains	West, on S. bdy. of sec. 34.
	Over nearly level land, thru scattering undergrowth.
2.20	Old road, bears N. and SE.
19.00	Dim road, bears N. and S.
40.00	Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, with a stone marked with a cross (X) deposited at base, and in a small mound of stone to top, for std. $\frac{1}{4}$ sec. cor., with brass cap marked
	SC <u><math>\frac{1}{4}</math> S34</u> 1939
	A high peak in the main ridge of the Ajo Mountains bears S.42 $\frac{1}{2}$ °W., about 9 miles dist.
	A bald, high peak in same ridge bears N.71°W., about 7 miles dist.
	Baboquivari Peak bears S.70°28'E., about 62 $\frac{1}{2}$ miles dist.
80.00	Set an iron post, 3 ft. long, 2 ins. in diam., 28 ins. in the ground, with a stone marked with a cross (X) deposited at base, and in a small mound of stone to top, for std. cor. of secs. 33 and 34, with brass cap marked
	SC T15S, R3W <u>S33   S34</u> 1939
	A bald, high peak in main ridge of the Ajo Mountains bears N.69°27'W., about 7 miles dist.
	Another peak in same ridge bears S.38°35'W., about 9 miles dist.
	Center of school at Kerwo bears S.3°40'E.
	Baboquivari Peak bears S.70°32'E., about 63 miles dist.
	A black hill (a) bears N.47°W.
	Land, nearly level. Soil, sandy, 2nd rate. Timber, none. Undergrowth, greasewood, sagebrush, scrub paloverde, aacti and native weeds.
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	West, on S. bdy. of sec. 33.
	Over nearly level land, thru very scattering timber and scattering undergrowth.
24.10	Wash, 20 lks. wide, course SE. Enter dense undergrowth.
32.70	Wash, 30 lks.wide, course SE.
35.10	Leave dense, and enter scattering undergrowth.
40.00	Set an iron post, 3 ft. long, 1 in. in diam., 28 ins. in the ground, for std. $\frac{1}{4}$ sec. cor., with brass cap marked

Survey: 3rd Standard Parallel South thru R. 3 W.

5

chains

SC  
 $\frac{1}{4}$  S33

1939

from which

A mesquite, 6 ins. diam., bears N.20°E., 153 lks. dist.,  
 marked SC  $\frac{1}{4}$  S33 BT

A mesquite, 6 ins. diam., bears N.2 $\frac{1}{2}$ °W., 159 lks. dist.,  
 marked SC  $\frac{1}{4}$  S33 BT

A black hill (a) bears N.22°W.

A bald, high peak in main ridge of the Ajo Mountains  
 bears N.67°51'W., about 6 $\frac{1}{2}$  miles dist.

Another peak in same ridge bears S.36°W., about 8 $\frac{1}{2}$  miles  
 dist.

56.00 Old road to Ajo, bears NW. and SE.

67.60 Telephone line (2 wire), bears N.55°W. and S.55°E.

68.70 Graded road, (Gunsight to Kerwo) bears N.55°W. and S.55°E.

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

SC  
 T15S, R3W  
 S32 | S33

1939

A high peak in main ridge of the Ajo Mountains bears  
 S.33°W., about 8 miles dist.

Another peak in same ridge bears N.65°53'W., about 6  
 miles dist.

A black hill (a) bears N.15°E.

Land, nearly level.

Soil, sandy, 2nd rate.

Timber, mesquite, paloverde and ironwood.

Undergrowth, greasewood, sagebrush, scrub paloverde and  
 mesquite, cacti, and native weeds.

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 West, on S. bdy. of sec. 32.

Over nearly level land, thru very scattering timber and  
 scattering undergrowth.

13.00 Road, bears N.70°W. and SE.

40.00 Set an iron post, 3 ft. long, 1 in. in diam., 18 ins. in  
 the ground to bedrock, and in a mound of stone to top,  
 for std.  $\frac{1}{4}$  sec. cor., with brass cap marked

SC  
 $\frac{1}{4}$  S32

1939

from which

A mesquite, 6 ins. diam., bears N.11°E., 917 lks. dist.,  
 marked SC  $\frac{1}{4}$  S32 BT



Survey: 3rd Standard Parallel South thru R. 3 W.

6

chains	<p>A mesquite, 6 ins. diam., bears N.28°W., 135 lks. dist., marked SC <math>\frac{1}{4}</math> S32 BT</p> <p>A black hill (a) bears N.43°E.</p> <p>A bald, high peak in main ridge of the Ajo Mountains bears N.64°W. about 5<math>\frac{1}{2}</math> miles dist.</p> <p>Another peak in same ridge bears S.27°W. about 8 miles dist.</p>
80.00	<p>Set an iron post, 3 ft. long, 2 ins. in diam., 28 ins. in the ground, for std. cor. of secs. 31 and 32, with brass cap marked</p> <p style="text-align: center;">SC T15S R3W <u>S31   S32</u> 1939</p> <p style="text-align: right;">from which</p> <p>A mesquite, 8 ins. diam., bears N.16°E., 139 lks. dist., marked SC T15S R3W S32 BT</p> <p>A mesquite, 6 ins. diam., bears N.32<math>\frac{1}{2}</math>°W., 104 lks. dist., marked SC T15S R3W S31 BT</p> <p>A black hill (a) bears N.58°E.</p> <p>A bald, high peak in main ridge of the Ajo Mountains bears N.61°W., about 5 miles dist.</p> <p>Land, nearly level. Soil, sandy, 2nd rate. Timber, mesquite and ironwood. Undergrowth, greasewood, sagebrush, cacti, scrub mesquite, and native weeds.</p>
	<p>West, on S. bdy. of sec. 31.</p> <p>Over nearly level land, thru very scattering timber and scattering undergrowth.</p>
6.00	Timber and undergrowth becomes dense.
7.60	Wash, 10 lks. wide, course NE.
11.10	Main wash, 50 lks. wide, course N.70°E.
13.00	Timber and undergrowth becomes scattering.
40.00	<p>Set an iron post, 3 ft. long, 1 in. in diam., 28 ins. in the ground, for std. <math>\frac{1}{4}</math> sec. cor., with brass cap marked,</p> <p style="text-align: center;">SC <u><math>\frac{1}{4}</math> S31</u> 1939</p> <p style="text-align: right;">from which</p> <p>A mesquite, 8 ins. diam., bears N.35<math>\frac{1}{2}</math>°W., 102 lks. dist., marked SC <math>\frac{1}{4}</math> S31 BT</p> <p>A mesquite, 6 ins. diam., bears N.73°W., 196 lks. dist., marked SC <math>\frac{1}{4}</math> S31 BT</p>
47.10	Wash, 15 lks. wide, course S.80°E.
80.00	Set an iron post, 3 ft. long, 3 ins. in diam., 28 ins. in

Survey: 3rd Standard Parallel South thru R. 3 W.

7

the ground; for std. cor. of Ts:15 S., Rs.3 and 4 W., with brass cap marked

SC  
T15S  
R4W | R3W  
S36 | S31

1939

from which

A mesquite, 8 ins. diam., bears N.12 $\frac{1}{2}$ °E., 188 lks. dist. marked SC T15S R3W S31 BT

A mesquite, 6 ins. diam., bears N.49°W., 100 lks. dist. marked SC T15S R4W S36 BT

A bald, high peak in main ridge of the Ajo Mountains bears N.56°57'W. about 4 miles dist.

A saddle in the Gunsight Hills bears N.24 $\frac{1}{2}$ °E. about 6 miles dist.

Land, nearly level.

Soil, sandy, 2nd rate.

Timber, mesquite and ironwood.

Undergrowth, greasewood, sagebrush, scrub paloverde and cacti. Scattering sahuaro cactus.

#### GENERAL DESCRIPTION.

3rd Standard Parallel South in Range 3 W.

The 3rd Standard Parallel South, thru R.3 W., forming the S. bdy. of unsurveyed T.15 S., R.3 W., is entirely within the Papago Indian Reservation, on the west side of the Quijotoa Valley. The elevation is about 2000 feet above sea level. The surface is nearly level, alosing slightly to the east, and the soil is sandy, 2nd rate.

The timber consists of a very scattering growth of mesquite, paloverde and ironwood, and there is a scattering growth of sahuaro cactus over this area.

The undergrowth consists of greasewood, sagebrush, cacti, scrub mesquite and paloverde, and native weeds, and is generally scattering.

There are no flowing streams of water or springs on or near the Parallel in R.3 W.

There is no evidence of valuable mineral deposits along this line.

The only settlement near the line is the Papago Indian village of Kerwo, which lies about  $\frac{3}{4}$  of a mile south from the std. cor. of secs.33 and 34. At this village is a school, church, and a small number of huts. Some small tracts of land around this village have been cultivated.

A graded road crosses the line on S. bdy. of sec. 33, which extends from Gunsight to Kerwo, and is also graded for about 6 miles southerly from said village, giving traveling facilities to other Indian villages in that direction. Several unimproved roads cross the Parallel in R. 3 W.

A two wire telephone line from Gunsight to Kerwo parallels the graded road between said places.

The town of Ajo, Arizona, is about twenty three miles northwesterly from the Parallel in this range.

Survey: 3rd Standard Parallel South thru R. 4 W.

8

chains	<p>From the std. cor. of Ts, 15 S., Rs. 3 and 4 W., hereinbefore described, West, on S. bdy. of sec. 36. Over gently rolling land, gradually ascending, thru very scattering timber and scattering undergrowth.</p> <p>15.50 Wash, 12 lks. wide, course N.50°E.</p> <p>21.90 Same wash, course S.88°E. from NW.</p> <p>40.00 Set an iron post, 3 ft. long, 1 in. in diam., 28 ins. in the ground, for std. <math>\frac{1}{4}</math> sec. cor., with brass cap marked,</p> <p style="text-align: center;">SC <u><math>\frac{1}{4}</math> S36</u> 1939</p> <p style="text-align: right;">from which</p> <p>A paloverde, 8 ins. diam., bears N.76<math>\frac{1}{2}</math>°E., 175 lks. dist., marked SC <math>\frac{1}{4}</math> S36 BT</p> <p>A paloverde, 10 ins. diam., bears N.89<math>\frac{1}{2}</math>°W., 122 lks. dist., marked SC <math>\frac{1}{4}</math> S36 BT</p> <p>Ascend gradually over general E. slope.</p> <p>70.00 Low spur, slopes SE.; desc. gradually over SW. slope to</p> <p>80.00 Set an iron post, 3 ft. long, 2 ins. in diam., 28 ins. in diam., 28 ins. in the ground, for std. cor. of secs. 35 and 36, with brass cap marked</p> <p style="text-align: center;">SC T15S   R4W <u>S35   S36</u> 1939</p> <p>No bearing trees available.</p> <p>Raise a mound of stone, 3 ft. base, 2 ft. high, N. of cor.</p> <p>Land, gently rolling. Soil, gravelly and rocky, 3rd rate. Timber, mesquite, ironwood and paloverde. Undergrowth, greasewood, sagebrush, and cacti. Scattering sahuaro cactus.</p> <hr style="border-top: 1px dashed black;"/> <p>West, on S. bdy. of sec. 35.</p> <p>Over gently rolling land, thru very scattering timber and scattering undergrowth; ascending gradually over S. and SE. slopes to</p> <p>40.00 Set an iron post, 3 ft. long, 1 in. in diam., 29 ins. in the ground, for std. <math>\frac{1}{4}</math> sec. cor., with brass cap marked</p> <p style="text-align: center;">SC <u><math>\frac{1}{4}</math> S35</u> 1939</p> <p>No bearing trees available.</p> <p>Raise a mound of stone, 4 ft. base, 2 ft. high, N. of cor.</p> <p>A peak in the Ajo Mountains bears S.27°33'W. about 4<math>\frac{1}{2}</math> miles dist.</p>
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Survey: 3rd Standard Parallel South thru R.4 W.

BOOK 450

9

chains	<p>Montezuma Head bears N.47°06'W.</p> <p>Ascend gradually over general SE. slope.</p>
71.00	Road, bears NE. and SW.
80.00	<p>Set an iron post, 3 ft. long, 2 ins. in diam., 29 ins. in the ground, with a stone marked with a cross (X) deposited at base, for std. cor. of secs. 34 and 35, with brass cap marked</p> <p style="text-align: center;">SC T15S   R4W S34   S35</p> <p style="text-align: center;">1939</p> <p>No bearing trees available.</p> <p>Raise a mound of stone, 3 ft. base, 2 ft. high, N. of cor.</p> <p>Windmill at Tonoca bears S.66°22'W.</p> <p>Indian hut bears S.48°10'W. about ½ mile dist.</p> <p>A black hill (a) bears N.50°W.</p> <p>Another black hill bears S.8°W. about ½ mile dist.</p> <p>Land, gently rolling. Soil, gravelly and rocky, 4th rate. Timber, mesquite, paloverde and ironwood. Undergrowth, greasewood, cacti and scrub paloverde. Scattering sahuaro cactus.</p> <hr style="border-top: 1px dashed black;"/> <p>West, on S. bdy. of sec. 34.</p> <p>Over gently rolling land, thru very scattering timber and medium undergrowth.</p> <p>Ascend gradually over general SE. slope.</p>
22.10	Wash, 10 lks. wide, course SE.
34.80	Wash, 8 lks. wide, course SE.
40.00	<p>Set an iron post, 3 ft. long, 1 in. in diam., 28 ins. in the ground, for std. ¼ sec. cor., with brass cap marked</p> <p style="text-align: center;">SC ¼ S34</p> <p style="text-align: center;">1939</p> <p>No bearing trees available.</p> <p>Raise a mound of stone, 4 ft. base, 2 ft. high, N. of cor.</p> <p>A black hill (a) bears N.14°E.</p> <p>A black butte bears S.29½°W. about ¾ mile dist.</p> <p>Another black butte bears N.30°25'W. about 2 miles dist.</p> <p>Windmill at Tonoca bears S.3°37'E.</p> <p>Continue gradual ascent over general SE. slope.</p>
50.00	Foot of steep rocky SE. slope bears NE. and SW. Leave gently rolling surface and enter mountainous land in the Ajo Mountains. Ascend 697 ft. over SE. slope.

Survey: 3rd Standard Parallel South thru R.4 W.

10

chains	
68.80	Rocky ridge, bears N.80°E. and S.80°W.; descend 406 ft. over NW. slope.
79.90	Wash, 5 lks. wide, course NW.; ascend slightly over NE. slope to
80.00	Set an iron post, 3 ft. long, 2 ins. in diam., 12 ins. in the ground to bedrock, with a stone marked with a cross (X) deposited at base, and in a mound of stone to top, for std. cor. of secs. 33 and 34, with brass cap marked,
	SC T15S   R4W S33   S34 1939
	No bearing trees available.
	Land, E. 50 chs. gently rolling; W. 30 chs. mountainous. Soil, gravelly and rocky, 4th rate. Timber, mesquite and paloverde. Undergrowth, greasewood, sagebrush, cacti, and scrub paloverde. Scattering sahuaro cactus.
	West, on S. bdy. of sec. 33.
	Over mountainous land, thru very scattering timber and scattering undergrowth. Ascend 21 ft. over NE. slope.
1.30	Spur, slopes NW. near point of same; descend 177 ft. over SW. slope.
8.50	Wash, 5 lks. wide, course NW. Thence over N. slope.
17.40	Wash, 30 lks. wide, course NE. Enter belt of dense undergrowth, bears NE. and SW. Ascend gradually over NE. slope.
21.00	Wash, 10 lks. wide, course N.10°E.
24.10	Bend in wash, 50 lks. wide, course N.20°E. from N.70°W. Enter nearly level bottom land.
28.30	Leave bottom land, and ascend 82 ft. over E. slope.
35.60	Spur, slopes N.; descend 30 ft. over NW. slope to
40.00	Set an iron post, 3 ft. long, 1 in. in diam., 14 ins. in the ground to bedrock, with a stone marked with a cross (X) deposited at base, and in a mound of stone to top, for std. $\frac{1}{4}$ sec. cor., with brass cap marked
	SC $\frac{1}{4}$ S33 1939
	No bearing trees available.
	Descend 20 ft. over NW. slope.
47.10	Wash, 30 lks. wide, course N.60°E.; ascend 346 ft. over E. slope.
63.80	Spur, slopes SE.; descend 247 ft. over SW. slope.
77.30	Wash, 30 lks. wide, course S., turning to E. at 3 chs. S. from this point, where it is joined by a wash from SW.

chains	Ascend 55 ft. over NE. slope to
80.00	Set an iron post, 3 ft. long, 2 ins. in diam., over a cross (X) chiseled on exposed bedrock, and in a mound of stone to top, for std. cor. of secs. 32 and 33, with brass cap marked
	SC T15S   R4W S32   S33 ----- 1939
	No bearing trees available.
	Land, mountainous. Soil, rocky. 4th rate. Timber, mesquite and paloverde. Undergrowth, greasewood, cacti, sagebrush, catclaw, scrub paloverde and ironwood. Scattering sahuaro cactus.
	-----
	West, on S. bdy. of sec. 32.
	Over mountainous land, in Ajo Mountains, thru very scattering timber and scattering undergrowth.
	Ascend 320 ft. over NE. slope to
25.70	Enter wash, 10 lks. wide, course N.60°E. in bottom of ravine; ascend 160 ft. in wash to
32.10	Leave wash, course E. from its head about 10 chs. SW. Ascend 323 ft. over E. slope to top of ridge.
37.00	Foot of nearly vertical cliff, about 50 ft. high, bearing N. and S., facing E. Ascend over this cliff to
37.69	Intersect the West boundary of the Papago Indian Reservation at a point 98 lks. S.14°E. from Angle Point No.9, and 6.02 chs. N.14°W. from Angle Point No.10 of the south half of the 6th mile of that portion of said reservation boundary which was surveyed in 1929 along the main ridge or divide of the Ajo Mountains in Ts.15,16 and 17 S., R.4 W. The elevation at this point of intersection is about 3500 feet above sea level.
	Leave Papago Indian Reservation.
	Descend 54 ft. over SW. slope to
40.00	Set an iron post, 3 ft. long, 1 in. in diam., 12 ins. in the ground to bedrock, with a stone marked with a cross (X) deposited at base, and in a mound of stone to top, for std. $\frac{1}{4}$ sec. cor., with brass cap marked
	SC $\frac{1}{4}$ S32 ----- 1939
	No bearing trees available.
	Alamo ranch house bears S.74 $\frac{1}{2}$ °W.
	Descend 96 ft. over SW. slope.
45.00	Wash, 10 lks. wide, course S.; asc. 30 ft. over SE. slope to
47.60	Draw, course SE.; ascend 80 ft. over E. slope.

## Survey: 3rd Standard Parallel South thru R. 4 W.

12

chains	
52.20	Spur, slopes S.; descend 517 ft. over broken W. slope to
65.40	Wash, 15 lks. wide, course NW.; descend 84 ft. over N. slope.
69.80	Point of Spur, slopes NW.; descend 206 ft. over W. slope.
76.70	Same wash, course SW.; descend 100 ft. over SW. slope to
80.00	Set an iron post, 3 ft. long, 2 ins. in diam., 6 ins. in the ground to bedrock, over a cross (X) marked thereon, and in a mound of stone to top, for std. cor. of secs. 31 and 32, with brass cap marked
	SC T15S   R4W S31   S32 ----- 1939
	No bearing trees available.
	Land, mountainous. Soil, rocky; 4th rate. Timber, paloverde, mesquite, ironwood and juniper. Undergrowth, buckbrush, cacti, greasewood and oakbrush. Scattering sahuaro cactus.
	----- West, on S. bdy. of sec. 31.
	Over mountainous land, thru very scattering timber and scattering undergrowth, along N. side of ravine, course W. Descend 163 ft. over SW. slope.
9.00	Wash, 60 lks. wide, course S.15°W.; ascend 309 ft. over SE. slope.
18.10	Point of spur, slopes S.; descend 70 over SW. slope.
22.70	Wash, 20 lks. wide, course S.20°E.; ascend 302 ft. over SE. slope.
32.10	Spur, slopes S.; from which,  Alamo ranch house bears S.13°W.  Windmill at junction of large washes from N. and SE., bears S.28°E.  A rocky, brown butte bears S.18½°W. about ¼ mile dist. A peak bears S.10¼°E. about 1½ miles dist. Saddle in main ridge of Ajo Mts. bears S.65°E.  West end of ridge from SE., across Alamo Wash, bears S.63¾°W.  A yellow butte bears N.47°W. about ½ mile dist.  Descend 242 ft. over SW. slope.
39.80	Bottom of ravine, 20 lks. wide, course SW.; ascend slightly over SE. slope to
40.00	Set an iron post, 3 ft. long, 1 in. in diam., over a cross (X) chiseled on exposed bedrock, and in a mound of stone to top, for std. ¼ sec. cor., with brass cap marked

Survey: 3rd Standard Parallel South thru R. 4 W.

chains

SC  
1/4 S31

1939

Alamo ranch house bears S.6°E.

West end of ridge noted at 32.10 ch. station bears S.61°W.

A hill bears S.9°W. about 1/2 mile dist.

Ascend 6 ft. over boulder strewn SE. slope.

40.60 Point of spur, slopes S.; descend 240 ft. over SW. slope.

48.10 Wash, 15 lks. wide, course S.20°W.; ascend 153 ft. over SE. slope.

52.50 Spur, slopes S.20°W.; descend 320 ft. over SW. slope.

71.90 Road, bears NW. and SE. (Alamo ranch to Ajo.)

74.50 Wash, 60 lks. wide, course NW.; descend 15 ft. over N. slope.

76.82 Thence over nearly level bottom land, thru dense undergrowth.

78.10 Remains of old stone corral on line.

80.00 Set an iron post, 3 ft. long, 3 ins. in diam., 28 ins. in the ground, for std. cor. of Ts.15 S., Rs.4 and 5 W., with brass cap marked

SC  
T15S  
R5W | R4W  
S30 | S31

1939

from which

A mesquite, 8 ins. diam., bears N.21 1/2°E., 132 lks. dist., marked SC T15S R4W S31 BT

A mesquite, 8 ins. diam., bears N.70 1/2°W., 54 lks. dist., marked SC T15S R5W S30 BT

West face of a brown butte bears N.1°12'E., about 1 1/2 miles dist.

This cor. is at foot of SW. bank of a wash, course NW. from E.

Land, mountainous, except some nearly level bottom land along a wash at W. end of mile.

Soil, rocky, 4th rate.

Timber, mesquite, ironwood, paloverde and juniper.

Undergrowth, greasewood, sagebrush, buckbrush, and cacti.

Scattering sahuaro cactus.

GENERAL DESCRIPTION.

3rd Standard Parallel South in R.4 W.

The 3rd Standard Parallel South, thru R. 4 W., forms the S. bdy. of T.15 S., R.4 W., the north third of which was surveyed in 1918. The east 2 miles and 50 chs. of the line in this range passes over gently rolling land,



Survey: 3rd Standard Parallel South thru R. 4 W.

14

ascending gradually over general SE. slope.

The remainder of the line passes over mountainous land in the Ajo Mountains, except a small area at the west end of the line which is nearly level.

The main ridge or divide of the Ajo Mountains, with an irregular northerly and southerly bearing extends thru Ts.15, 16 and 17 S., R.4 W., and crosses the line near the std.  $\frac{1}{4}$  sec.cor. of sec.32 where it has an elevation of about 3500 ft. above sea level, and from 1300 to 1500 ft. above the adjacent valleys. This ridge forms the West bdy. of the Papago Indian Reservation from a point 7.05 chs. W. of the  $\frac{1}{4}$  sec. cor. of secs.10 and 15, T.15 S.,R.4 W. southerly to a point 1.49 chs. S. of the cor. of secs. 19,24,25 and 30, Ts:17 S.,Rs.3 and 4 W., and said bdy. was surveyed in 1929. In this survey the mile and half-mile points were monumented with 3 in. and 1 in. diam., brass-capped iron posts; respectively, and all angle points were monumented with mounds of stone. The mile monuments were numbered, consecutively, from 1 to 20, counting from the north.

The soil is gravelly and rocky, 3rd and 4th rates, that in the mountains being entirely rocky, 4th rate, and many areas therein being devoid of soil entirely.

The timber is mesquite, ironwood and paloverde, and some juniper in the mountains.

The undergrowth consists of greasewood, sagebrush, catclaw, scrub paloverde and ironwood, buckbrush, oakbrush, cacti, and native weeds.

The timber is mainly very scattering, and the undergrowth scattering, except along some of the larger washes where a dense growth of both timber and undergrowth occurs.

There is a scattering growth of sahuaro cactus over most of this area.

There are no flowing streams of water or springs on or near the Parallel in R. 4 W.

There is no evidence of valuable mineral deposits along this line.

At the foot of the east slope of the Ajo Mountains, about  $\frac{1}{4}$  mile S. from the std.  $\frac{1}{4}$  sec.cor. of sec.34, lies the deserted Indian village of Tonoca with about twelve huts. There is a deep well here, under a windmill, furnishing a good supply of water pumped into a concrete reservoir, from which it is piped to troughs in adjacent corrals for stock watering purposes. A road extends easterly from this village to Kerwo. The winter climate at this point is about the best in southern Arizona, owing to its position in a large cove in the mountains and being about 2000 feet above sea level.

Near the foot of the west slope of the Ajo Mountains, about  $\frac{1}{4}$  mile S. from the std.  $\frac{1}{4}$  sec.cor. of sec.31, is the Alamo Ranch, owned by Ralph Gray, of Ajo, Arizona, consisting of several small rock houses, corrals, and a windmill over a well. This ranch grazes cattle over the adjacent ranges. A road extends westerly to the highway from Ajo, Arizona to Sonoita, Mexico.

The land to the west of the Papago Indian Reservation Bdy. on both sides of the Parallel, is within the recently created Organ Pipe Cactus National Monument, in which region that variety of cactus, a species of the sahuaro cactus, is prevalent.

chains	<p>From the std. cor. of Ts.15 S.,Rs.4 and 5 W., hereinbefore described,</p> <p>West, on S. bdy. of sec. 36.</p> <p>Ascend 24 ft. over NE. slope on SW. bank of a wash, course NW. from E.</p>
1.30	Top of bank, bears NW. and SE. Thence over nearly level and gently rolling land, thru very scattering timber and scattering undergrowth.
33.30	Wash, 10 lks. wide, course NW.
40.00	Set an iron post, 3 ft. long, 1 in. in diam., 12 ins. in the ground to bedrock, with a stone marked with a cross (X) deposited at base, and in a mound of stone to top, for std. $\frac{1}{4}$ sec. cor., with brass cap marked
	<p style="text-align: center;">SC <u><math>\frac{1}{4}</math> S36</u> 1939</p> <p>No bearing trees available.</p> <p>A red butte bears S.55°25'E., and another red butte bears N.28°E.</p> <p>Sierra del Ajo bears S.41°58'E.</p> <p>Descend gradually over N. slope.</p>
45.00	Spur, slopes NW.; descend 96 ft. over gradual SW. slope.
71.60	Wash, 10 lks. wide, course SW.; continue gradual descent over SW. slope.
80.00	Set an iron post, 3 ft. long, 2 ins. in diam., 28 ins. in the ground, for std. cor. of secs.35 and 36, with brass cap marked
	<p style="text-align: center;">SC T15S   R5W <u>S35   S36</u> 1939</p> <p>No bearing trees available.</p> <p>Raise a mound of stone, <math>3\frac{1}{2}</math> ft. base, <math>2\frac{1}{2}</math> ft. high, N. of cor.</p> <p>Sierra del Ajo bears S.50°50'E. etc. Soil, sandy and rocky, 3rd and 4th rates. A peak bears S.7°55'W., and another peak bears N.50°20'W.</p> <p>Land, nearly level and gently rolling. Soil, sandy and rocky, 3rd and 4th rates. Timber, paloverde, ironwood and mesquite. Undergrowth, buckbrush, greasewood, sagebrush, and cacti. Scattering sahuaro cactus.</p>
	<p>West, on S. bdy. of sec. 35.</p> <p>Over gently rolling land, thru very scattering timber and scattering undergrowth. Descend gradually over SW. slope.</p>
24.50	Wash, 10 lks. wide, course SW.
31.60	Wash, 20 lks. wide, course NW. from S.70°E.

## Survey: 3rd Standard Parallel South thru R. 5 W.

chains	
32.50	Main wash, 40 lks. wide, course N.20°W. from S. Ascend gradually over NE. slope.
40.00	Set an iron post, 3 ft. long, 1 in. in diam., 27 ins. in the ground, for std. $\frac{1}{4}$ sec.cor., with brass cap marked,  SC <u><math>\frac{1}{4}</math> S35</u>  1939  No bearing trees available.  Raise a mound of stone, 3 ft.base, 2 ft.high, N.of cor.  Descend gradually over NW. slope.
46.90	Wash, 30 lks. wide, course N.20°W.; ascend gradually over E. slope to
54.50	Leave gently rolling, and enter heavily rolling and mountainous land. Ascend 140 ft. over E. slope.
66.54	Spur, slopes NW. from SW.  Sierra del Ajo bears S.52°E. A peak bears S.7 $\frac{1}{2}$ °E. about 4 miles dist. A peak bears N.62°E. about 5 miles dist. A peak bears N.39°E. about $\frac{1}{2}$ mile dist. A peak bears N.37°W. about $\frac{1}{4}$ mile dist.  Descend 116 ft. over broken W. slope.
73.35	Ascend 10 ft. over E. slope.
75.28	Short spur, slopes N.20°E.; descend gradually over NW. slope to
80.00	Set an iron post, 3 ft. long, 2 ins. in diam., 24 ins. in the ground, for std. cor. of secs.34 and 35, with brass cap marked  SC T15S   R5W <u>S34   S35</u>  1939  No bearing trees available.  Raise a mound of stone, 3 ft.base, 2 ft.high, N.of cor.  Land, gently and heavily rolling, and mountainous. Soil, sandy and rocky, 3rd and 4th rates. Timber, mesquite, ironwood and paloverde. Undergrowth, greasewood, sagebrush, and cacti. Scattering sahuaro cactus.
	----- West, on S. bdy. of sec. 34.  Over rolling land, thru very scattering timber and scattering undergrowth. Descend 42 ft. over NW. slope.
5.00	Wash, 10 lks. wide, course N.20°E. Enter mountainous land. Ascend 188 ft. over SE. slope.
13.80	Top of ascent, on S. side of butte, the top of which is 1.20 chs. N. of line. Descend 286 ft. over SW. slope.

## Survey: 3rd Standard Parallel South thru R.5 W.

17

chains	
22.77	Wash, 30 lks. wide, course S.20°W.; ascend 14 ft. over W. bank of wash.
23.70	Top of W. bank of wash, bears N.20°E. and S.20°W. Thence over gently rolling land. Ascend gradually over SE. slope.
28.75	Descend 68 ft. over SW. slope.
33.69	Thence over nearly level land.
40.00	Set an iron post, 3 ft. long, 1 in. in diam., 28 ins. in the ground, for std. $\frac{1}{4}$ sec. cor., with brass cap marked
	SC <u><math>\frac{1}{4}</math> S34</u> 1939
	No bearing trees available.
	Raise a mound of stone, 3 ft. base, 2 ft. high, N. of cor.
68.10	Wash, 20 lks. wide, course NE.
72.00	A point from which; A butte bears N.56°E., about 1 mile dist. Three hills (a), (b) and (c) bear N.7°E.; N.11°W.; and N.22°W., respectively. A high peak in the Puerto Blanco Mts. bears S.18 $\frac{1}{2}$ °W., about 12 miles dist. Another peak in same mts. bears S.46°W., about same dist.
74.10	State highway, Ajo, Arizona, to Sonoita, Mexico, bears N.11°E. and S.11°W.
80.00	Set an iron post, 3 ft. long, 2 ins. in diam., 20 ins. in the ground to bedrock, with a stone marked with a cross (X) deposited at base, and in a mound of stone to top, for std. cor. of secs. 33 and 34, with brass cap marked
	SC T15S   R5W <u>S33   S34</u> 1939
	No bearing trees available.
	Land, rolling, mountainous, gently rolling and nearly level. Soil, sandy, gravelly, and rocky, 2nd and 3rd rates. Timber, paloverde, mesquite and ironwood. Undergrowth, greasewood, sagebrush and cacti. Scattering sahuaro cactus (organ pipe variety).
	-----
	West, on S. bdy. of sec. 33.
	Over nearly level and gently rolling land, thru very scattering timber, and medium undergrowth.
10.00	Old road, bears NE. and SW.
22.60	Staked line for new State highway, bears N.11°E. and S.11°W.
40.00	Set an iron post, 3 ft. long, 1 in. in diam., 27 ins. in the ground, for std. $\frac{1}{4}$ sec. cor., with brass cap marked

## Survey; 3rd Standard Parallel South thru R. 5 W.

chains

SC  
 $\frac{1}{4}$  S33

1939

No bearing trees available. Raise a mound of stone, 3 ft. base, 2 ft. high, N. of cor. Three hills noted at 72 ch. station of preceding mile, bear; (a) N.37°E.; (b) N.20°E.; (c) N.1°W.

43.00 Wash, 20 lks. wide, course NE.

47.00 Dim road, bears NE. and SW.

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

SC  
 T15S | R5W  
 S32 | S33

1939

No bearing trees available.

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

Montezuma Head bears N.59°42'E.

A peak bears S.72 $\frac{1}{2}$ °E. about 5 miles dist.

A saddle-topped mountain in the Ajo Mountains bears S.40°25'E.

A high peak in the Puerto Mountains bears S.10°35'W.

Another peak in same mountains bears S.39°W.

A peak at S. end of the Growler Mountains bears N.85 $\frac{1}{4}$ °W.

Land, nearly level and gently rolling.

Soil, sandy and gravelly, 2nd and 3rd rates.

Timber, paloverde, mesquite and ironwood.

Undergrowth, greasewood, sagebrush, catclaw and cacti.

Scattering sahuaro cactus, organ pipe variety.

At above described std. sec. cor.,

December 8, 1939; at 2h. 37m., a.m. l.n.t., observe Polaris at western 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 in top of a stake driven firmly in the ground, about 5 chs. N.

Azimuth of Polaris at western elongation: 1°13'

At daylight, lay off the angle to the 3rd Standard Parallel South and find the azimuth thereof to be closely in agreement.

December 9, 1939; in order to check the position of the Parallel, survey a random line North from the above described std. cor. of secs. 32 and 33, T.15 S., R.5 W., and at 479.43 chs. intersect the S. bdy. of T.14 S., R.5 W. at a point 23 lks. E. of the cor. of secs. 4, 5, 32 and 33, Ts. 14 and 15 S., R.5 W., established in 1918.

West, on S. bdy. of sec. 32.

Over nearly level land thru medium timber and undergrowth.

40.00 Set an iron post, 3 ft. long, 1 in. in diam., 28 ins. in the ground, for std.  $\frac{1}{4}$  sec. cor., with brass cap marked

Survey: 3rd Standard Parallel South thru R. 5 W.

chains

SC  
1/4 S32  
1939

No bearing trees available.

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

62.00 Wash, 10 lks. wide, course S.85°W., from NE.

80.00 Set an iron post, 3 ft. long, 2 ins. in diam., 28 ins. in the ground, for std. cor. of secs. 31 and 32, with brass cap marked

SC  
T15S | R5W  
S31 | S32  
1939

No bearing trees available.

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

Land, nearly level.  
Soil, sandy and gravelly, 2nd and 3rd rates.  
Timber, paloverde, mesquite, and ironwood.  
Undergrowth, greasewood, sagebrush, catclaw and cacti.  
Scattering sahuaro cactus, organ pipe variety.

West, on S. bdy. of sec. 31.

Over nearly level land, thru medium timber and undergrowth.

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

SC  
1/4 S31  
1939

No bearing trees available.

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

A pass at S. end of Puerto Blanco Mts. bears S.9°W/  
Another pass in same mts. bears S.44 1/8°W.  
A peak in Growler Mountains bears N.83°37'W.  
Montezuma Head bears N.67°59'E.  
Point where Growler Wash enters the Growler Mts. and disappears from view from this point, bears N.50°W.

76.90 Road, bears NW. and SE.

80.00 Set an iron post, 3 ft. long, 3 ins. in diam., 28 ins. in the ground, for std. cor. of Ts. 15 S., Rs. 5 and 6 W., with brass cap marked

SC  
T 15 S  
R6W | R5W  
S36 | S31  
1939

No bearing trees available.

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

Survey: 3rd Standard Parallel South thru R. 5 W.

20

Sierra del Ajo bears S.  $56\frac{1}{4}^{\circ}$  E.  
 A peak near U.S.-Mex. bdy. bears S.  $4\frac{1}{2}^{\circ}$  E.  
 A peak in Puerto Blanco Mts. bears S.  $21^{\circ}$  W.  
 A peak in main ridge of Ajo Mts. bears S.  $77\frac{1}{2}^{\circ}$  E.

Land, nearly level.  
 Soil, sandy and gravelly, 2nd and 3rd rate.  
 Timber, paloverde, mesquite, and ironwood.  
 Undergrowth, greasewood, sagebrush, catclaw and cacti.  
 Scattering sahuaro cactus, organ pipe variety.

## GENERAL DESCRIPTION.

3rd Standard Parallel South in R. 5 W.

The 3rd Standard Parallel South thru R. 5 W. forms the S. bdy. of T. 15 S., R. 5 W., which is unsurveyed except for its N. bdy. and N. 2 miles of E. bdy. Most of the surface is nearly level and gently rolling, gradually descending from E. to W. There is some heavily rolling and mountainous land along the line in W.  $\frac{1}{2}$  of S. bdy. of sec. 35, and E.  $\frac{1}{2}$  of S. bdy. of sec. 34.

The soil is sandy, gravelly and rocky, 2nd 3rd and 4th rates.

The timber, very scattering, consists of mesquite, paloverde, and ironwood.

The undergrowth, scattering, consists of greasewood, sagebrush, catclaw and cacti, and scattering sahuaro cactus of the organ pipe variety.

There are no flowing streams of water or springs along the line in this range, and no developed wells or tanks.

There is no evidence of valuable mineral deposits on or near the line.

There are no settlers or improvements along this line.

The average elevation is about 1500 feet above sea level.

The improved State highway between Ajo, Arizona, and Sonoita, Mexico, crosses the line on the W. half of S. bdy. of sec. 34, and the old road between same places, used many years ago, crosses the line a short distance E. from its W. end. A new location for the State highway is surveyed and staked and crosses the E.  $\frac{1}{2}$  of S. bdy. of sec. 33. Two old roads cross the S. bdy. of sec. 33.

The land has very little agricultural value.

S I T

Survey: 3rd Standard Parallel South thru R. 6 W.

chains	<p>From the std. cor. of Ts.15 S., Rs.5 and 6 W., hereinbefore described,  West, on S. bdy. of sec.36.  Over nearly level land, thru very scattering timber and scattering undergrowth.</p> <p>27.30 Wash, 10 lks. wide, course NW. for 3.00 chs., thence SW.  36.80 Same wash, 10 lks. wide, course SW.  40.00 Set an iron post, 3 ft. long, 1 in. in diam., 28 ins. in the ground, for std. <math>\frac{1}{4}</math> sec. cor., with brass cap marked,</p> <p style="text-align: center;">SC  <u><math>\frac{1}{4}</math> S36</u>  1939</p> <p>No bearing trees available.  Raise a mound of stone, 3 ft.base, 2 ft.high, N. of cor.</p> <p>52.20 Same wash, course NW.  80.00 Set an iron post, 3 ft. long, 2 ins.in diam., 28 ins. in the ground, for std. cor. of secs.35 and 36, with brass cap marked</p> <p style="text-align: center;">SC  T15S   R6W  <u>S35   S36</u>  1939</p> <p>No bearing trees or stones for mound available.  Dig pits, 18x18x12 ins.,one each, E., W., and N. of cor. 3 ft. dist.</p> <p>Land, nearly level.  Soil, sandy and gravelly, 2nd and 3rd rates.  Timber, paloverde, mesquite and ironwood.  Undergrowth, greasewood, sagebrush, and cacti.  Scattering sahuaro cactus, organ pipe variety.</p> <hr style="border-top: 1px dashed black;"/> <p>West, on S. bdy. of sec. 35.  Over nearly level land, thru very scattering timber and scattering undergrowth.</p> <p>8.50 Wash, 10 lks. wide, course NW. Timber and undergrowth becomes dense.  12.30 Old road, bears NW. and SE. (Ajo to Sonoita).  14.80 Wash, 20 lks. wide, course N.10°W., joined at this point by two washes, one from SE., and the other from S.  19.40 Center of Growler Wash, 105 lks. wide, 3 ft. banks, course N. 20°W. Leave dense timber and undergrowth and enter very scattering timber and scattering undergrowth.  40.00 Set an iron post, 3 ft. long, 1 in. in diam., 28 ins. in the ground, for std. <math>\frac{1}{4}</math> sec. cor., with brass cap marked</p> <p style="text-align: center;">SC  <u><math>\frac{1}{4}</math> S35</u>  1939</p>
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Survey: 3rd Standard Parallel South thru R.6 W.

22

chains	from which
	A mesquite, 6 ins. diam., bears N.44°E., 167 lks. dist., marked SC $\frac{1}{4}$ S35 BT
	A mesquite, 6 ins. diam., bears N.85°E., 155 lks. dist., marked SC $\frac{1}{4}$ S35 BT
56.80	Wash, 150 lks. wide, course N.
70.30	Wash, 20 lks. wide, course N.
80.00	Set an iron post, 3 ft. long, 2 ins. in diam., 28 ins. in the ground, for std. cor. of secs. 34 and 35, with brass cap marked
	SC T15S   R6W S34   S35
	1939
	No bearing trees available.
	Raise a mound of stone, 3 ft. base, 2 ft. high, N. of cor.
	Sierra del Ajo bears S.65°E. A peak in the Puerto Blanco Mts. bears S.19°E. A peak bears S.4°E. about 10 miles dist. A small butte bears S.11°40'E. about 6 miles dist. A small butte bears S.14 $\frac{1}{2}$ °E. about 5 miles dist. A pass bears S.22°W. about 10 miles dist.
	Land, nearly level. Soil, sandy and gravelly, 2nd and 3rd rates. Timber, paloverde, mesquite and ironwood. Undergrowth, greasewood, sagebrush and cacti. Scattering sahuaro cactus, organ pipe variety.
	-----
	West, on S. bdy. of sec. 34.
	Over nearly level land, thru very scattering timber and scattering undergrowth.
17.50	Wash, 20 lks. wide, course N.20°E.
34.00	Enter washed land, draining N.
37.00	Leave washed land.
40.00	Set an iron post, 3 ft. long, 1 in. in diam., 28 ins. in the ground, for std. $\frac{1}{4}$ sec. cor., with brass cap marked
	SC $\frac{1}{4}$ S34
	1939
	No bearing trees available. Raise a mound of stone, 3 ft. base, 2 ft. high, N. of cor.
	A butte bears N.29 $\frac{3}{4}$ °W. about 3 miles dist. Montezuma Head bears N.72 $\frac{1}{2}$ °E. A hill bears S.22 $\frac{1}{2}$ °E. A hill bears S.18 $\frac{1}{4}$ °E.
52.90	Wash, 50 lks. wide, course N.
59.80	Wash, 20 lks. wide, course NE.
64.50	Old road, bears N. and S.

Survey: 3rd Standard Parallel South thru R.6 W.

23

chains 65.30	<p>From this point;            A round brown peak bears N.21<math>\frac{3}{4}</math>°W. about 2 miles dist.            A peak bears N.60°40'W.            A peak bears N.50°W.</p>
79.00	Wash, 50 lks. wide, course N.20°W.
80.00	<p>Set an iron post, 3 ft. long, 2 ins. in diam., 28 ins. in the ground, for std. cor. of secs. 33 and 34, with brass cap marked</p> <p style="text-align: center;">SC            T15S R6W  <u>S33   S34</u>            1939</p> <p>No bearing trees available.</p> <p>Raise a mound of stone, 3 ft. base, 2 ft. high, N. of cor.</p> <p>Land, nearly level.            Soil, sandy and gravelly, 2nd and 3rd rates.            Timber, paloverde, ironwood and mesquite.            Undergrowth, greasewood, sagebrush, catclaw and cacti.            Scattering sahuaro cactus, organ pipe variety.</p> <hr style="border-top: 1px dashed black;"/> <p>West, on S. bdy. of sec. 33.</p> <p>Over nearly level and gently rolling land, thru very scattering timber and scattering undergrowth.</p>
4.60	Wash, 10 lks. wide, course N.
10.30	Road, bears N. and S. (Northerly to Ajo and southerly to Dripping Springs in the Puerto Blanco Mts.)
21.00	Wash, 10 lks. wide, course N.
29.70	Wash, 10 lks. wide, course N.
31.90	Wash, 70 lks. wide, course NE.
35.10	Road, bears NE. and SW.; extends northerly to Ajo, Arizona, and southerly to Quitobaquito on the U.S.-Mex. International Boundary.
40.00	<p>Set an iron post, 3 ft. long, 1 in. in diam., 28 ins. in the ground, for std. <math>\frac{1}{4}</math> sec. cor. of sec. 33, with brass cap marked</p> <p style="text-align: center;">SC  <u><math>\frac{1}{4}</math> S33</u>            1939</p> <p>No bearing trees available.</p> <p>Raise a mound of stone, 3 ft. base, 2 ft. high, N. of cor.</p>
79.50	Wash, 10 lks. wide, course SE.
80.00	<p>Set an ironpost, 3 ft. long, 2 ins. in diam., 28 ins. in the ground, for std. cor. of secs. 32 and 33, with brass cap marked</p> <p style="text-align: center;">SC            T15S R6W  <u>S32   S33</u>            1939</p>

Survey: 3rd Standard Parallel South thru R.6 W.

chains

No bearing trees available.

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

A black hill bears N.  $17^{\circ}$  E. about  $1\frac{1}{2}$  miles dist.

A black hill bears N.  $18^{\circ}$  W. about  $\frac{3}{4}$  mile dist.

A black peak bears N.  $47^{\circ}$  W.

A black peak bears N.  $40^{\circ}$  W.

A black peak bears N.  $70^{\circ}$  W.

Land, nearly level and gently rolling.

Soil, sandy and gravelly, 2nd and 3rd rates.

Timber, paloverde, mesquite and ironwood.

Undergrowth, greasewood, sagebrush, catclaw, cacti and grass.

Scattering sahuaro cactus, organ pipe variety.

West, on S. bdy. of sec. 32.

Over gently rolling land, thru very scattering timber and scattering undergrowth.

21.70 Wash, 50 lks. wide, course SE.

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

SC

$\frac{1}{4}$  S32

1939

No bearing trees available.

41.00 Wash, 15 lks. wide, course N.

45.00 Leave gently rolling and enter mountainous land at the southerly end of the Growler Mountains.  
Ascend 384 ft. over NE. slope to.

56.30 Foot of cliffs, bearing NE. and S., facing E.; ascend 30 ft. over E. face of cliffs.

57.12 Top of cliffs, and spur, sloping NE.; descend 301 ft. over NW. slope.

70.35 Wash, 10 lks. wide, course N., in bottom of ravine.  
Ascend 246 ft. over boulder strewn E. slope.

79.30 Spur, slopes N.; descend 20 ft. over W. slope to

80.00 Set an iron post, 3 ft. long, 2 ins. in diam., over a cross (X) chiseled on exposed bedrock, and in a mound of stone to top, for std. cor. of secs. 31 and 32, with brass cap marked

SC

T15S | R6W

S31 | S32

1939

No bearing trees available.

Land, gently rolling and mountainous.

Soil, gravelly and rocky, 3rd and 4th rates.

Timber, paloverde, ironwood and mesquite.

Undergrowth, greasewood, sagebrush, catclaw and cacti.

Scattering sahuaro cactus, organ pipe variety.

## Survey: 3rd Standard Parallel South thru R.6 W.

25

chains	West, on S. bdy. of sec. 31. Over mountainous land, thru very scattering timber and scattering undergrowth. Descend 194 ft. over W. slope to
17.24	Ascend gradually over SE. and S. slopes.
19.00	Line of old fence posts, bearing NW. and SE.
28.70	Saddle in ridge, bearing NW. and SE.; descend slightly over S. slope to
35.50	Descend 83 ft. over SW. slope to
40.00	Set an iron post, 3 ft. long, 1 in. in diam., 28 ins. in the ground, for std. $\frac{1}{4}$ sec. cor., with brass cap marked  SC <u><math>\frac{1}{4}</math> S31</u> 1939  No bearing trees available.  Raise a mound of stone, $3\frac{1}{2}$ ft. base, $2\frac{1}{2}$ ft. high, N. of cor.  Descend 69 ft. over SW. slope.
43.40	Wash, 40 lks. wide, course SE.; ascend 462 ft. over steep broken SE. slope to
61.80	Wash, 20 lks. wide, course SE., near head. Ascend 334 ft. over cliffs facing SE.
69.30	Spur, slopes S. $20^{\circ}$ W.; descend 402 ft. to Tp. cor., over cliffs facing W. and SW.
80.00	Set an iron post, 3 ft. long, 3 ins. in diam., 14 ins. in the ground to bedrock, with a stone marked with a cross (X) deposited at base, and in a mound of stone to top, for std. cor. of Ts. 15 S., Rs. 6 and 7 W., with brass cap marked  SC T15S R7W   R6W <u>S36   S31</u> 1939  No bearing trees available.  This cor. is at foot of a cliff about 30 ft. high, bearing N. and S., facing W. Wooden frame around a well, known as the Villa Acunia Well, 30 ft. deep, now dry, bears S. $32^{\circ}10'$ W. A black mountain bears S. $32^{\circ}$ W. about $2\frac{1}{2}$ miles dist. A low, black hill bears S. $16^{\circ}$ W. about 4 miles dist. A red peak bears N. $52^{\circ}$ W. about 3 miles dist. A red peak bears N. $23^{\circ}$ W. about 3 miles dist.  Land, mountainous. Soil, rocky, 4th rate. Timber, paloverde and mesquite. Undergrowth, greasewood, buckbrush, and cacti. Scattering sahuaro cactus, organ pipe variety.

## GENERAL DESCRIPTION.

## 3rd Standard Parallel South in R. 6 W.

The 3rd Standard Parallel South thru R.6 W. forms the S. bdy. of T.15 S., R.6 W., which is unsurveyed except for its N. bdy. which was surveyed in 1918.

The surface is nearly level and gently rolling, with the exception of the west 35 chs. of S. bdy. of sec.32, and all of the S. bdy. of sec.31, which is mountainous.

The timber, consisting of paloverde, mesquite, and ironwood, is of small size and is very scattering, except along the Growler Wash, in E.  $\frac{1}{2}$  of sec.35, where a dense growth exists.

The undergrowth, consisting of greasewood, sagebrush and cacti, is scattering along the entire line except along the Growler Wash, where it is dense.

The soil over the nearly level and gently rolling land is sandy and gravelly, 2nd and 3rd rates, and in the mountainous land, rocky, 4th rate.

There are no flowing streams of water or springs on or near the Parallel in this range. The drainage is mainly to the N. The Growler Wash, course northwesterly, crosses the east half of sec.35.

The mountainous land in secs. 31 and 32 is in the southerly end of the Growler Mountains which attain an elevation of about 2500 feet above sea level in said secs.

There are no settlers near the line in this range, and no evidence of valuable mineral deposits.

There are no improvements except a line of fence posts crossing the E.  $\frac{1}{2}$  of S. bdy. of sec. 32, from which the wire has been removed.

There are no improved roads, but there are several secondary roads; one crossing the E.  $\frac{1}{2}$  of S. bdy. of sec.35, extending northerly to Ajo, Arizona, and southerly to Sonoita, Mexico; one crossing the W.  $\frac{1}{2}$  of S. bdy. of sec.34 extending northerly to Ajo, and southerly toward the U.S.-Mexico Boundary; two crossing the E.  $\frac{1}{2}$  of S. bdy. of sec.33 both extending northerly to Ajo, and the easterly one extending southerly to the Dripping Springs in the Puerto Mountains, and the westerly one extending southerly to Quitobaquito on the U.S.-Mex. Bdy.

The only value of the land at present is for stock grazing. The entire line is within the Organ Pipe National Monument.

Survey: 3rd Standard Parallel South thru R. 7 W.

27

chains	From the std. cor. of Ts.15 S.,Rs.6 and 7 W.,hereinbefore described,
	West, on S. bdy. of sec. 36.
	Over mountainous land, thru very scattering timber and scattering undergrowth. Descend 451 ft. over steep broken W. slope.
10.46	Wash, 20 lks. wide, course SW.; leave mountainous and enter gently rolling and nearly level land. Undergrowth becomes fairly dense.
24.40	Wash, 30 lks. wide, course SE.
40.00	Set an iron post, 3 ft. long, 1 in. in diam., 12 ins. in the ground to bedrock, with a stone marked with a cross (X) deposited at base, and in a mound of stone to top, for std. $\frac{1}{4}$ sec. cor., with brass cap marked
	<p style="text-align: center;">SC <u><math>\frac{1}{4}</math> S36</u> 1939</p>
	No bearing trees available.
	Continue over gently rolling land, thru very scattering timber and medium undergrowth.
80.00	Set an iron post, 3 ft. long, 2 ins. in diam., 15 ins. in the ground to bedrock, with a stone marked with a cross (X) deposited at base, and in a mound of stone to top, for std. cor. of secs. 35 and 36, with brass cap marked,
	<p style="text-align: center;">SC T15S   R7W <u>S35   S36</u> 1939</p>
	No bearing trees available.
	<p>A small peak bears S2<math>\frac{1}{2}</math>°W. about 4 miles dist. A black mountain bears S.9°W. about 2 miles dist. A pass in red-black ridge bears N.76°W.</p>
	<p>Land, mountainous, gently rolling and nearly level. Soil, gravelly and rocky, 3rd and 4th rates. Timber, paloverde, ironwood and mesquite. Undergrowth, greasewood, sagebrush, catclaw and cacti. Scattering sahuaro cactus, organ pipe variety.</p>
	----- West, on S. bdy. of sec. 35.
	Over gently rolling and nearly level land, thru very scattering timber and medium undergrowth.
40.00	Set an iron post, 3 ft. long, 1 in. in diam., 16 ins. in the ground to bedrock, with a stone marked with a cross (X) deposited at base, and in a mound of stone to top, for std. $\frac{1}{4}$ sec. cor., with brass cap marked
	<p style="text-align: center;">SC <u><math>\frac{1}{4}</math> S35</u> 1939</p>
	No bearing trees available.

Survey: 3rd Standard Parallel South thru R. 7 W.

chains	
50.00	Wash, 10 lks. wide, course SW.
58.60	Wash, 50 lks. wide, course SW.
70.80	Wash, 20 lks. wide, course SW.
79.85	Wash, 10 lks. wide, course S.30°W.
80.00	Set an iron post, 3 ft. long, 2 ins. in diam., 12 ins. in the ground to bedrock, with a stone marked with a cross (X) deposited at base, and in a mound of stone to top, for std. cor. of secs. 34 and 35, with brass cap marked
	SC T15S   R7W S34   S35 ----- 1939
	No bearing trees available.
	A red peak bears N.11°E. about 4 miles dist.
	A pass in hills bears N.21°E. about 3½ miles dist.
	A black peak in main ridge of Growler Mountains bears N.50°E.
	A black peak bears N.19½°W. about 3½ miles dist.
	Land, gently rolling and nearly level.
	Soil, sandy, gravelly and rocky, 2nd, 3rd and 4th rates.
	Timber, paloverde, mesquite and ironwood.
	Undergrowth, greasewood, sagebrush, catclaw, and cacti.
	Scattering sahuaro cactus, organ pipe variety.
	-----
	West, on S. bdy. of sec. 34.
	Over gently rolling and nearly level land, thru very scattering timber and medium undergrowth.
6.80	Wash, 20 lks. wide, course S.
40.00	Set an iron post, 3 ft. long, 1 in. in diam., 18 ins. in the ground to bedrock, with a stone marked with a cross (X) deposited at base, and in a mound of stone to top, for std. ¼ sec. cor., with brass cap marked
	SC ¼ S34 ----- 1939
	No bearing trees available.
	Ascend gradually over S. slope.
65.00	Point of low spur, slopes SW.
80.00	Set an iron post, 3 ft. long, 2 ins. in diam., 24 ins. in the ground, and in a small mound of stone to top, for std. cor. of secs. 33 and 34, with brass cap marked
	SC T15S   R7W S33   S34 ----- 1939
	No bearing trees available.
	Raise a mound of stone, 3 ft. base, 2 ft. high, N. of cor.

chains	<p>Land, gently rolling and nearly level. Soil, sandy and gravelly, 3rd rate. Undergrowth, greasewood, sagebrush, catclaw and cacti. Timber, paloverde, mesquite, and ironwood. Scattering sahuaro cactus, organ pipe variety.</p> <hr/> <p>West, on S. bdy. of sec. 33.</p> <p>Over nearly level land, thru very scattering timber and medium undergrowth.</p>
37.20	Wash, 10 lks. wide, course SW.
40.00	<p>Set an iron post, 3 ft. long, 1 in. in diam., 24 ins. in the ground, and in a small mound of stone to top, with a stone marked with a cross (X) deposited at base of post, for std. <math>\frac{1}{4}</math> sec. cor., with brass cap marked</p> <p style="text-align: center;">SC <u><math>\frac{1}{4}</math> S33</u> 1939</p> <p>No bearing trees available.</p> <p>Raise a mound of stone, 3 ft. base, 2 ft. high, N. of cor.</p>
78.80	<p>Set an iron post, 3 ft. long, 2 ins. in diam., 16 ins. in the ground to bedrock, with a stone marked with a cross (X) deposited at base, and in a mound of stone to top, for witness cor. to std. cor. of secs. 32 and 33, with brass cap marked</p> <p style="text-align: center;">SC T15S   R7W S32   S33 WC ——— 1939</p> <p>No bearing trees available.</p>
80.00	<p>The true point for std. cor. of secs. 32 and 33 is in the bed of Dripping Springs Wash, 2.50 chs. wide, course N. 30° W., in which, and along each bank for about 100 lks. therefrom is a dense growth of undergrowth, and fairly large trees. It being impracticable to monument this sec. cor. at the true point, establish witness cor. at a point 1.20 chs. E. as hereinbefore described.</p> <p>Land, nearly level. Soil, sandy and gravelly, 3rd rate. Timber, paloverde, mesquite, and ironwood. Undergrowth; greasewood, sagebrush, catclaw, and cacti. Scattering sahuaro cactus, organ pipe variety.</p> <hr/> <p>From true point for std. cor. of secs. 32 and 33, West, on S. bdy. of sec. 32.</p> <p>Over gently rolling and nearly level land, thru medium timber and dense undergrowth.</p>
2.00	Leave dense undergrowth and medium timber, and enter scattering undergrowth and very scattering timber.
40.00	Set an iron post, 3 ft. long, 1 in. in diam., 28 ins. in the ground, for std. $\frac{1}{4}$ sec. cor., with brass cap marked



Survey: 3rd Standard Parallel South thru R. 7 W.

30

chains	<p style="text-align: center;">SC <u>¼ S32</u> 1939</p> <p>No bearing trees available.</p> <p>Raise a mound of stone, <math>3\frac{3}{8}</math> ft. base, <math>2\frac{1}{2}</math> ft. high, N. of cor.</p> <p>45.00 Wash, 50 lks. wide, course NW.</p> <p>65.00 Road, bears N. and S.; extends northerly to Bates Well, and southerly to Quitobaquito.</p> <p>80.00 Set an iron post, 3 ft. long, 2 ins. in diam., 28 ins. in the ground, for std. cor. of secs. 31 and 32, with brass cap marked</p>
	<p style="text-align: center;">SC T15S   R7W <u>S31   S32</u> 1939</p> <p>No bearing trees available.</p> <p>Raise a mound of stone, 3 ft. base, 2 ft. high, N. of cor.</p> <p>Land, gently rolling and nearly level. Soil, sandy, gravelly and rocky, 3rd and 4th rates. Timber, paloverde, ironwood, and mesquite. Undergrowth, greasewood, sagebrush, and cacti. Scattering sahuaro cactus, organ pipe variety.</p> <hr style="border-top: 1px dashed black;"/> <p>West, on S. bdy. of sec. 31.</p> <p>Over nearly level land, thru very scattering timber and scattering undergrowth.</p> <p>40.00 Set an iron post, 3 ft. long, 1 in. in diam., 18 ins. in the ground to bedrock, with a stone marked with a cross (X) deposited at base, and in a mound of stone to top, for std. <math>\frac{1}{4}</math> sec. cor., with brass cap marked</p>
	<p style="text-align: center;">SC <u>¼ S31</u> 1939</p> <p>No bearing trees available.</p> <p>80.00 Set an iron post, 3 ft. long, 3 ins. in diam., 28 ins. in the ground, for std. cor. of Ts. 15 S., Rs. 7 and 8 W., with brass cap marked</p>
	<p style="text-align: center;">SC T15S R8W   R7W <u>S30   S31</u> 1939</p> <p>No bearing trees available.</p> <p>Raise a mound of stone, <math>3\frac{1}{2}</math> ft. base, <math>2\frac{1}{2}</math> ft. high, N. of cor.</p> <p>Land, nearly level. Soil, sandy and gravelly, 2nd and 3rd rates. Timber, paloverde and ironwood. Undergrowth, greasewood, sagebrush, catclaw, and cacti.</p>

Survey: 3rd Standard Parallel South thru R. 7 W.

31

Scattering sahuaro cactus, organ pipe variety.

## GENERAL DESCRIPTION.

3rd Standard Parallel South in R. 7 W.

The 3rd Standard Parallel South thru R. 7 W. forms the S. bdy. of T. 15 S., R. 7 W., which is unsurveyed except for its N. bdy., surveyed in 1931, and its W. bdy. surveyed under this group subsequent to the survey of the Parallel as described in the foregoing field notes.

The east  $10\frac{1}{2}$  chs. of the line has a mountainous surface, lying on steep W. slope of the southerly end of the Growler Mountains. The surface of the remainder of the line is gently rolling and nearly level, with an elevation of about 1800 feet above sea level.

The soil at the east end of the line is rocky, 4th rate, and over the remainder is sandy and gravelly, 2nd and 3rd rates.

The timber, mainly very scattering, consists of small paloverde, ironwood and mesquite.

The undergrowth, scattering and medium growths, consists of greasewood, sagebrush, catclaw and cacti.

The timber and undergrowth is dense along Dripping Springs Wash, in the vicinity of std. cor. of secs. 32 and 33.

There is a scattering growth of sahuaro cactus of the organ pipe variety, all along the line.

There are no flowing streams of water or springs on or near the Parallel in this range. A dug well, about 30 ft. deep, now dry, known as the Villa Acunia Well, is located southwesterly from the E. cor. at the E. end of the line, about  $\frac{1}{2}$  mile dist.

The drainage of the E. four miles of the line is southerly and the W. two miles drain northerly. The principal wash is the Dripping Springs Wash, which crosses the line at the point for std. cor. of secs. 32 and 33, with a northwesterly course.

There are no settlers near the line; no improvements; and no evidence of valuable mineral deposits.

There are no improved roads, and a road bearing N. and S. crossing the W.  $\frac{1}{2}$  of S. bdy. of sec. 32, extending northerly to Bates Well and southerly to Quitobaquito on the U.S.-Mex. Bdy., is the only road crossing the line.

The entire line is within the recently created Organ Pipe Cactus National Monument.

Survey: 3rd Standard Parallel South thru R. 8 W.

32

chains	<p>From the std. cor. of Ts.15 S.,Rs.7 and 8 W.,hereinbefore described,</p> <p>West, on S. bdy. of sec. 36.</p> <p>Over nearly level land, thru very scattering timber and scattering undergrowth.</p> <p>18.50 Leave nearly level, and enter mountainous land. Ascend 298 ft. over E. slope.</p> <p>31.00 Spur; slopes S.10°E. from N.80°W.; descend 29 ft. over SW. slope.</p> <p>37.00 Head of wash, course S.; ascend 29 ft. over gradual SE. slope to</p> <p>40.00 Set an iron post, 3 ft. long, 1 in. in diam., 8 ins. in the ground to bedrock, with a stone marked with a cross (X) deposited at base, and in a mound of stone to top, for std. <math>\frac{1}{4}</math> sec. cor., with brass cap marked</p> <p style="text-align: center;">SC <u><math>\frac{1}{4}</math> S36</u> 1939</p> <p>No bearing trees available.</p> <p>Ascend 25 ft. over SE. slope.</p> <p>41.90 Black spur, slopes S.; descend 227 ft. over W. slope.</p> <p>52.80 Wash, 10 lks. wide, course S.; ascend 158 ft. over E.slope.</p> <p>59.60 Ridge, bears N.20°E. and SW.; descend 281 ft. over W.slope.</p> <p>77.00 Foot of slope, bears N. and SW. Leave mountainous and enter nearly level land.</p> <p>80.00 Set an iron post, 3 ft. long, 2 ins. in diam., 20 ins. in the ground to bedrock, and in a mound of stone to top, for std. cor. of secs.35 and 36, with brass cap marked</p> <p style="text-align: center;">SC T15S   R8W <u>S35   S36</u> 1939</p> <p>No bearing trees available.</p> <p>Raise a mound of stone, 3 ft. base, 2 ft. high, N. of cor.</p> <p>East end of low hill bears N.33°W. about 1 mile dist. A black knoll bears S.10°W. about 10 chs. dist. A black knoll bears S.54°W. about <math>\frac{1}{4}</math> mile dist. A black knoll bears S.65<math>\frac{1}{2}</math>°E. about <math>\frac{1}{4}</math> mile dist.</p> <p>Land, E. 18<math>\frac{1}{2}</math> chs. and W. 3 chs., nearly level; remainder mountainous. Soil, sandy and gravelly, 3rd rate in the nearly level land; rocky, 4th rate in the mountainous land. Timber, paloverde and mesquite. Undergrowth, greasewood, sagebrush, and cacti. Scattering sahuaro cactus, organ pipe variety.</p>
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.Survey: 3rd Standard Parallel South thru R. 8 W.

33

chains	West, on S. bdy. of sec. 35.
	Over nearly level land, thru very scattering timber and scattering undergrowth.
40.00	Set an iron post, 3 ft. long, 1 in. in diam., 28 ins. in the ground, for std. $\frac{1}{4}$ sec. cor., with brass cap marked
	SC <u><math>\frac{1}{4}</math> S35</u> 1939
	No bearing trees available.
	Raise a mound of stone, 3 ft. base, 2 ft. high, N. of cor.
	A black knoll bears S.8°W. about 8 chs. dist. East end of hill bears N.6°E. about 1 mile dist. West end of hill bears N.33°W. about 1 mile dist. A hill bears N.50°W. about $1\frac{1}{2}$ miles dist.
80.00	Set an iron post, 3 ft. long, 2 ins. in diam., 28 ins. in the ground, for std. cor. of secs. 34 and 35, with brass cap marked
	SC T15S   R8W <u>S34   S35</u> 1939
	No bearing trees available.
	Raise a mound of stone, 3 ft. base, 2 ft. high, N. of cor.
	A hill bears N.37°W. about 1 mile dist. Highest peak in the Agua Dulce Mts. bears S.57 $\frac{1}{2}$ °W.. West end of hill bears N.10°E. about 1 mile dist.
	Land, nearly level. Soil, sandy, 2nd rate. Timber, mesquite, paloverde and ironwood. Undergrowth, greasewood, sagebrush, catclaw, and cacti. Scattering sahuaro cactus, organ pipe variety.
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	West, on S. bdy. of sec. 34.
	Over nearly level land, thru very scattering timber and scattering undergrowth.
40.00	Set an iron post, 3 ft. long, 1 in. in diam., 28 ins. in the ground, for std. $\frac{1}{4}$ sec. cor., with brass cap marked
	SC <u><math>\frac{1}{4}</math> S34</u> 1939
	No bearing trees available.
	Raise a mound of stone, 3 ft. base, 2 ft. high, N. of cor.
60.00	Enter washed land, and dense undergrowth. Across washes course N.
67.00	Leave washed land and dense undergrowth.
80.00	Set an iron post, 3 ft. long, 2 ins. in diam., 28 ins. in the ground, with a stone marked with a cross (X) deposit-

Survey: 3rd Standard Parallel South thru R. 8 W.

34

chains	<p>ed at base, for std. cor. of secs. 33 and 34, with brass cap marked</p> <p style="text-align: center;">SC T15S   R8W <u>S33   S34</u> 1939</p> <p>No bearing trees available.</p> <p>Raise a mound of stone, 3 ft. base, 2 ft. high, N. of cor.</p> <p>A peak in the Agua Dulce Mts. bears S.40°38'W. A black hill bears N.6°E. about 1 mile dist. A peak in the Agua Dulce Mts. bears S.52½°W. A pass in same mts. bears S.49°W. A pass in same mts. bears S.12°W. Growler Peak bears N.15°42'E. West end of black hills bears S.36°E. about 10 miles dist.</p> <p>Land, nearly level. Soil, sandy, 2nd rate. Timber, mesquite, paloverde and ironwood. Undergrowth, greasewood, sagebrush, catclaw, and cacti. Scattering sahuaro cactus, organ pipe variety.</p> <hr/> <p>West, on S. bdy. of sec. 33.</p> <p>Over nearly level land, thru very scattering timber and scattering undergrowth.</p> <p>15.00 Enter washed land, course NW.</p> <p>30.00 Leave washed land.</p> <p>40.00 Set an iron post, 3 ft. base, 1 in. in diam., 28 ins. in the ground, for std. cor., with brass cap marked</p> <p style="text-align: center;">SC <u>¼ S33</u> 1939</p> <p>No bearing trees or stones for mound available.</p> <p>Dig pits 18x18x12 ins., one each E. and W. of cor. 3 ft. dist.</p> <p>72.00 Wash, 15 lks. wide, course N.30°E.</p> <p>80.00 Set an iron post, 3 ft. long, 2 ins. in diam., 28 ins. in the ground, for std. cor. of secs. 32 and 33, with brass cap marked</p> <p style="text-align: center;">SC T15S   R8W <u>S32   S33</u> 1939</p> <p>No bearing trees or stones for mound available.</p> <p>Dig pits 18x18x12 ins., one each E., W. and N. of cor., 3 ft. dist.</p> <p>A peak bears N.51°W. about 6 miles dist. A black peak bears S.59¾°E. about 7 miles dist. Growler Peak bears N.20¾°E. A black hill bears N.73°E. about 6 miles dist.</p>
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Survey: 3rd Standard Parallel South thru R. 8 W.

35

chains	<p>Land, nearly level. Soil, sandy, 2nd rate. Timber, mesquite, paloverde, and ironwood. Undergrowth, greasewood, sagebrush, catclaw, and cacti. Scattering sahuaro cactus, organ pipe variety.</p> <hr/> <p>West, on S. bdy. of sec. 32.</p> <p>Over nearly level land, thru very scattering timber and scattering undergrowth.</p>
40.00	<p>Set an iron post, 3 ft. long, 1 in. in diam., 28 ins. in the ground, for std. <math>\frac{1}{4}</math> sec. cor., with brass cap marked</p> <p style="text-align: center;">SC <u><math>\frac{1}{4}</math> S32</u> 1939</p> <p>No bearing trees or stones for mound available.</p> <p>Dig pits 18x18x12 ins., one each E. and W. of cor. 3 ft. dist.</p>
51.60	<p>Wash, 15 lks. wide, course NE.</p>
80.00	<p>Set an iron post, 3 ft. long, 2 ins. in diam., 28 ins. in the ground, for std. cor. of secs. 31 and 32, with brass cap marked</p> <p style="text-align: center;">SC T15S   R8W <u>S31   S32</u> 1939</p> <p>No bearing trees or stones for mound available.</p> <p>Dig pits 18x18x12 ins., one each E., W., and N. of cor. 3 ft. dist.</p> <p>Land, nearly level. Soil, sandy, 2nd rate. Timber, mesquite, ironwood, and paloverde. Undergrowth, greasewood, sagebrush, catclaw, and cacti. Scattering sahuaro cactus, organ pipe variety.</p> <hr/> <p>West, on S. bdy. of sec. 31.</p> <p>Over nearly level land, thru very scattering timber and scattering undergrowth.</p>
13.60	<p>Wash, 15 lks. wide, course N. Thence across overflow land, thru dense undergrowth.</p>
24.60	<p>Wash, 10 lks. wide, course NE. Leave overflow land and dense undergrowth.</p>
40.00	<p>Set an iron post, 3 ft. long, 1 in. in diam., 18 ins. in the ground to bedrock, with a stone marked with a cross (X) deposited at base, and in a mound of stone to top, for std. <math>\frac{1}{4}</math> sec. cor., with brass cap marked</p> <p style="text-align: center;">SC <u><math>\frac{1}{4}</math> S31</u> 1939</p> <p>No bearing trees available.</p>

Survey: 3rd Standard Parallel South thru R. 8 W.

chains	<p>A peak in the Agua Dulce Mts. bears S.12<math>\frac{1}{2}</math>°W.  A peak in same mts. bears S.74°55'W.  Growler Peak bears N.26°10'E.</p>
44.10	Wash, course N.20°E., joined at this point by a wash from S. and a wash from SW.
48.20	Wash, 10 lks. wide, course NE.
69.80	Wash, 10 lks. wide, course N.10°E.
72.60	Wash, 25 lks. wide, course NE.
80.00	Set an iron post, 3 ft. long, 3 ins. in dian., 28 ins. in the ground, for std. cor. of Ts.15 S.,Rs.8 and 9 W., with brass cap marked
	<p>SC  T15S  R9W   R8W  S30   S31</p>
	1939
	No bearing trees available.
	Raise a mound of stone, 3 $\frac{1}{2}$ ft. base, 2 ft. high, N. of cor.
	Growler Peak bears N.28°E. A cone shaped peak bears N.34°55'W. about 3 miles dist. A peak in the Agua Dulce Mts. bears S.2°10'W. A peak in same mts. bears S.72 $\frac{1}{2}$ °W. A peak in same mts. bears S.20°W. East edge of a pass thru same mts. bears S.50 $\frac{1}{2}$ °W. West edge of same pass bears S.57 $\frac{1}{2}$ °W.
	Land, nearly level. Soil, sandy and gravelly, 2nd and 3rd rates. Timber, mesquite, ironwood, and paloverde. Undergrowth, greasewood, sagebrush, catclaw, and cacti. Scattering sahuaro cactus.
	----- GENERAL DESCRIPTION. 3rd Standard Parallel South in R.8 W. -----
	<p>The 3rd Standard Parallel South thru R.8 W. forms the S. bdy. of T.15 S.,R.8 W., the E.,W. and N. bdrs. of which, and the mid-meridional subdivision line, were surveyed under this group, subsequent to the survey of the Parallel which is described in the foregoing field notes.  The W. bdy., and mid-meridional subdivision line of T.16 S.,R.8 W. were also surveyed under this group and close on the Parallel in this range. The east halves of Ts.15 and 16 S.,R.8 W. are within the recently created Organ Pipe Cactus National Monument. The west halves of said townships are within the Cabeza Prieta Game Range.  The Parallel thru R.8 W. passes over a nearly level surface except on the S. bdy. of sec.30, where mountainous land predominates. The average elevation in this range is about 1500 ft. above sea level. Except for the S. bdy. of sec.30, the drainage is northerly.  The soil is sandy and gravelly, 2nd and 3rd rates, except in the mountainous land, where the soil is rocky, 4th rate.  The timber, which is very scattering thru this range, is of small size, and consists of mesquite, paloverde and ironwood. A scattering growth of sahuaro cactus, of the organ pipe variety is prevalent.  The undergrowth is scattering except along some of the washes where it is dense, and consists of greasewood, sagebrush, catclaw, and cacti.</p>

Survey: 3rd Standard Parallel South thru R.8 W.

There are no flowing streams of water or springs on or near the Parallel in this range, and no wells or tanks. There are no settlers near the line; no improvements; and no evidence of valuable mineral deposits. There are no roads crossing the Parallel in this range.

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chains	<p>From the std. cor. of Ts.15 S., Rs.8 and 9 W., hereinbefore described,</p> <p>West, on the S. bdy. of sec. 36.</p> <p>Over nearly level and gently rolling land, thru very scattering timber and scattering undergrowth.</p> <p>10.90 Wash, 20 lks. wide, course N.30°E.</p> <p>14.20 Wash, 20 lks. wide, course NE.</p> <p>40.00 Set an iron post, 3 ft. long, 1 in. in diam., 28 ins. in the ground, for std. <math>\frac{1}{4}</math> sec.cor., with brass cap marked,</p> <p style="text-align: center;">SC <u><math>\frac{1}{4}</math> S36</u> 1940</p> <p>No bearing trees available.</p> <p>Raise a mound of stone, 3 ft.base, 2 ft.high, N.of cor.</p> <p>43.50 Wash; 30 lks. wide, course N.</p> <p>44.50 Road, bears N.10°E. and S.10°W.; extends southwesterly to mine workings on northerly slope of the Agua Dulce Mts.</p> <p>48.20 Wash, 30 lks. wide, course NW.</p> <p>70.40 Wash, 20 lks. wide, course N.10°E.</p> <p>80.00 Set an iron post, 3 ft. long, 2 ins. in diam., 12 ins. in the ground, to bedrock, with a stone marked with a cross (X) deposited at base, and in a mound of stone to top, for std. cor. of secs. 35 and 36, with brass cap marked,</p> <p style="text-align: center;">SC T15S   R9W <u>S35   S36</u> 1940</p> <p>No bearing trees available.</p> <p>Land, nearly level and gently rolling. Soil, sandy and gravelly, 2nd and 3rd rates. Timber, paloverde, ironwood, and mesquite. Undergrowth, greasewood, sagebrush, catclaw, and cacti. Scattering sahuaro cactus.</p> <p>-----</p> <p>West, on the S. bdy. of sec. 35.</p> <p>Over gently rolling and nearly level land, thru very scattering timber and scattering undergrowth.</p> <p>1.90 Wash, 15 lks. wide, course N.</p> <p>7.70 Wash, 100 lks. wide, course NE.</p> <p>40.00 Set an iron post, 3 ft. long, 1 in. in diam., 12 ins. in the ground to bedrock, with a stone marked with a cross (X) deposited at base, and in a mound of stone to top, for std. <math>\frac{1}{4}</math> sec. cor., with brass cap marked</p> <p style="text-align: center;">SC <u><math>\frac{1}{4}</math> S35</u> 1940</p>
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Survey: 3rd Standard Parallel South thru R. 9 W.

39

chains	No bearing trees available.
42.90	Wash, 10 lks. wide, course NE.
60.20	Wash, 15 lks. wide, course N.
66.80	Wash, 60 lks. wide, course NE.
74.00	Dim road, bears NE. and SW.
80.00	Set an iron post, 3 ft. long, 2 ins. in diam., 28 ins. in the ground, for std. cor. of secs. 34 and 35, with brass cap marked
	SC T15S   R9W S34   S35 ----- 1940
	No bearing trees available.
	Raise a mound of stone, $3\frac{1}{2}$ ft. base, $2\frac{1}{2}$ ft. high, N. of cor.
	Land, gently rolling and nearly level. Soil, gravelly and rocky, 3rd and 4th rates. Timber, paloverde, ironwood, and mesquite. Undergrowth, greasewood, sagebrush, catclaw, and cacti. Scattering sahuaro cactus.
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	West, on the S. bdy. of sec. 34.
	Over gently rolling land, draining NE., thru very scattering timber and scattering undergrowth.
26.30	Main wash, 50 lks. wide, course N.70°E.; ascend gradually over SE. slope to
40.00	Set an iron post, 3 ft. long, 1 in. in diam., 28 ins. in the ground, for std. $\frac{1}{4}$ sec. cor., with brass cap marked,
	SC $\frac{1}{4}$ S34 ----- 1940
	No bearing trees available.
	Raise a mound of stone, 3 ft. base, 2 ft. high, N. of cor.
	Ascend gradually over SE. slope to
45.00	Toe of spur, slopes S.; ascend gradually over general S. slope.
50.00	Bend in main wash, 50 lks. wide, course S.70°E. from S.20° W. Leave gently rolling, and enter heavily rolling and mountainous land. Ascend 269 ft. over SE. slope.
71.00	Spur, slopes S.; descend 46 ft. over broken W. slope.
75.93	Draw, course S.; ascend 10 ft. over E. slope.
77.00	Spur, slopes S.; descend 10 ft. over SW. slope to
80.00	Set an iron post, 3 ft. long, 2 ins. in diam., 20 ins. in the ground to bedrock, with a stone marked with a cross (X) deposited at base, and in a mound of stone to top, for std. cor. of secs. 33 and 34, with brass cap marked

Survey; 3rd Standard Parallel South thru R. 9 W.

40

chains	<p style="text-align: center;">SC T15S   R9W S33   S34 1940</p> <p>No bearing trees available.</p> <p>Land, E. 50 chs. gently rolling; W. 30 chs. heavily rolling and mountainous (Agua Dulce Mts.) Soil, gravelly and rocky, 3rd and 4th rates. Timber, paloverde, ironwood, and mesquite. Undergrowth, greasewood, sheepbrush, and cacti. Scattering sahuaro cactus.</p> <hr style="border-top: 1px dashed black;"/> <p>West, on the S. bdy. of sec. 33.</p> <p>Over mountainous land (Agua Dulce Mts.), thru very scattering timber and scattering undergrowth. Descend 84 ft. over steep broken W. slope.</p> <p>2.70 Wash, 10 lks. wide, course S.; ascend 148 ft. over E. slope.</p> <p>7.00 Spur, slopes S. 20° E.; descend 69 ft. over SW. slope.</p> <p>16.00 Wash, 10 lks. wide, course SE.; ascend 227 ft. over SE. slope.</p> <p>21.50 Rocky knob, in ridge of the Agua Dulce Mts., bearing N. and SE.; descend 295 ft. over SW. slope to</p> <p>40.00 Set an iron post, 3 ft. long, 1 in. in diam., 12 ins. in the ground to bedrock, with a stone marked with a cross (X) deposited at base, and in a mound of stone to top, for std. <math>\frac{1}{4}</math> sec. cor., with brass cap marked</p> <p style="text-align: center;">SC <math>\frac{1}{4}</math> S33 1940</p> <p>No bearing trees available.</p> <p>Descend gradually over broken W. slope to</p> <p>48.50 Enter heavily rolling land; descend 175 ft. over SW. slope.</p> <p>72.60 Thence over gently rolling land; descend gradually over SW. slope to</p> <p>80.00 Set an iron post, 3 ft. long, 2 ins. in diam., 18 ins. in the ground to bedrock, with a stone marked with a cross (X) deposited at base, and in a mound of stone to top, for std. cor. of secs. 32 and 33, with brass cap marked,</p> <p style="text-align: center;">SC T15S   R9W S32   S33 1940</p> <p>No bearing trees available.</p> <p>Land, mountainous (Agua Dulce Mts.), gently and heavily rolling, and broken. Soil, rocky, 4th rate. Timber, paloverde, and ironwood. Undergrowth, greasewood, sheepbrush, and cacti. Scattering sahuaro cactus.</p>
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Survey: 3rd Standard Parallel South thru R. 9 W.

BOOK 4270

41

chains	West, on the S. bdy. of sec. 32.
	Over gently rolling land, thru very scattering timber and scattering undergrowth: Descend gradually over SW. slope.
6.40	Wash, 50 lks. wide, course S.; enter mountainous land. Ascend 70 ft. over E. slope.
10.00	Spur, slopes S.; thence across top of spur.
14.50	Leave top of spur; descend 60 ft. over W. slope.
19.00	Draw, course S.; ascend 142 ft. over E. slope.
30.60	Spur, slopes S.20°W.; descend 162 ft. over W. slope to
40.00	Set an iron post, 3 ft. long, 1 in. in diam., 28 ins. in the ground, for std. $\frac{1}{4}$ sec.cor., with brass cap marked,
	SC <u><math>\frac{1}{4}</math> S32</u> 1940
	No bearing trees available.
	Raise a mound of stone, 3 ft. base, 2 ft. high, N. of cor.
	Thence over gently rolling land; descend gradually over W. slope.
47.10	Wash, 30 lks. wide, course S.; /ascend 150 ft. over E. slope. <span style="float: right;">enter mountainous land;</span>
55.50	Spur, slopes S.; descend 15 ft. over SW. slope.
59.00	Ascend 165 ft. over NE. slope.
66.80	Spur, slopes SE. from N.85°W.; descend gradually over SW. slope.
70.50	Ascend 75 ft. over S. slope to
80.00	Set an iron post, 3 ft. long, 2 ins. in diam., 12 ins. in the ground, to bedrock, with a stone marked with a cross (X) deposited at base, and in a mound of stone to top, for std. cor. of secs. 31 and 32, with brass cap marked
	SC T15S, R9W <u>S31   S32</u> 1940
	No bearing trees available.
	Land, gently rolling and mountainous. Soil, rocky, 4th rate. Timber, paloverde, ironwood, and mesquite. Undergrowth, greasewood and cacti. Scattering sahuaro cactus.
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	West, on the S. bdy. of sec. 31.
	Over mountainous land, thru very scattering timber and scattering undergrowth. Ascend 124 ft. over SE. slope.
5.06	Ridge, bears N.30°W. and S.; descend 535 ft. over broken SW. slope to

BOOK 4270

Survey: 3rd Standard Parallel South thru R. 9 W.

42

chains  
36.45 Enter gently rolling land; descend gradually over SW. slope to  
40.00 Set an iron post, 3 ft. long, 1 in. in diam., 18 ins. in the ground to bedrock, with a stone marked with a cross (X) deposited at base, and in a mound of stone to top, for std.  $\frac{1}{4}$  sec. cor., with brass cap marked

SC  
 $\frac{1}{4}$  S31

1940

No bearing trees available.

Descend gradually over SW. slope to

45.00 Wash, 10 lks. wide, course S.80°W. Enter level land.

73.50 Leave level, and enter mountainous land.  
Ascend 60 ft. over SE. slope.78.90 Top of ascent on S. side of a knoll, near top of same.  
This knoll is at SW. end of a ridge from the NE.  
Descend 23 ft. over SW. slope to

80.00 Set an iron post, 3 ft. long, 3 ins. in diam., 12 ins. in the ground to bedrock, with a stone marked with a cross (X) deposited at base, and in a mound of stone to top, for std. cor. of Ts.15 S., Rs.9 and 10 W., with brass cap marked

SC  
T15S  
R10W | R9W  
S36 | S31

1940

No bearing trees available.

A crater mountain, across the U.S.-Mex. Bdy., bears S.18 $\frac{1}{2}$ °W., about 15 miles dist.A granite peak bears S.18°05'E. about 1 $\frac{1}{2}$  miles dist.

End of SW. prong of Agua Dulce Mts. bears S.31°W.

A granite peak bears S.64°W. about 1 $\frac{1}{2}$  miles dist.Papago Peak bears N.18 $\frac{1}{2}$ °W.A granite peak bears N.19°E. about 3 $\frac{1}{2}$  miles dist.

Land, gently rolling, mountainous, and level.

Soil, gravelly and rocky, 3rd and 4th rates.

Timber, paloverde, ironwood, and mesquite.

Undergrowth, greasewood, sheepbrush, and cacti.

Scattering sahuaro cactus.

## GENERAL DESCRIPTION.

3rd Standard Parallel South in R.9 W.

The 3rd Standard Parallel South thru R.9 W. forms the S. bdy. of T.15 S., R.9 W. Subsequent to the survey of the Parallel in this range as hereinbefore described, the E. W. and N. bdrs. of T.15 S., R.9 W. were surveyed under this group. Ts.15 and 16 S., R.9 W. are entirely within Arizona Grazing District No.3 and the **Cabeza Prieta Game Range**.

The surface of the east 2 miles in this range is nearly level and gently rolling, and parts of the west four miles are also gently rolling. On the S. bdy. of sec.31 there is a small area of level land, Parts of the west four miles have a mountainous and heavily rolling surface, in the Agua Dulce Mountains.

DOK 4270

Survey: 3rd Standard Parallel South thru R. 9 W.

43

The soil is mainly gravelly and rocky, 3rd and 4th rates. The timber is very scattering, of small size, and consists of paloverde, ironwood, and mesquite. The undergrowth is scattering thru the entire range, and consists of greasewood, sagebrush, sheepbrush, catclaw, and cacti. A scattering growth of sahuaro cactus is prevalent in all of this area. There are no flowing streams of water, or springs, on or near the Parallel in this range, and no wells or tanks. The drainage of nearly all of the east three miles is northerly, and the west three miles of the line drain southerly. There are some prospect holes and other evidence of valuable mineral deposits in the mountainous land adjacent to the line. A road crosses the line on the  $W\frac{1}{2}$  of S. bdy. of sec. 36, extending southerly to some mine workings on the northerly slope of the Agua Dulce Mountains. A dirt road crosses the  $W\frac{1}{2}$  of S. bdy. of sec. 35, bearing NE. and SW. These two roads are the only ones crossing the Parallel in R. 9 W., and extend several miles northerly to the Bates Well- Papago Well road. There are no settlers or improvements along the Parallel, nor in the vicinity.

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Survey: 3rd Standard Parallel South thru R. 10 W.

44

chains	From the std. cor. of Ts.15 S., Rs.9 and 10 W., hereinbefore described, West, on the S. bdy. of sec. 36. Over rolling land, thru very scattering timber and scattering undergrowth. Descend 66 ft. over SW. slope.
4.80	Wash, 10 lks. wide, course S.; ascend 22 ft. over E. slope.
7.30	Toe of spur, slopes S.; descend slightly over SW. slope.
9.00	Descend 50 ft. over W. slope.
17.30	Main wash, 80 lks. wide, course SW.; ascend gradually over S. slope.
29.00	Ascend 41 ft. over SE. slope.
31.00	Road, bears NE. and SW.
35.30	Low spur, slopes SW.; descend 12 ft. over W. slope.
38.00	Wash, 10 lks. wide, course S.; ascend 5 ft. over E. slope to
40.00	Set an iron post, 3 ft. long, 1 in. in diam., 6 ins. in the ground to bedrock, over a cross (X) marked thereon, and in a mound of stone to top, for std. $\frac{1}{4}$ sec. cor., with brass cap marked
	SC <u><math>\frac{1}{4}</math> S36</u> 1940
	No bearing trees available.
	Ascend 5 ft. over E. slope.
40.70	Spur, slopes S.20°W.; descend 45 ft. over NW. slope.
51.00	Shallow draw, course N.; ascend 25 ft. over E. slope.
53.70	Spur, slopes N.; descend 51 ft. over NW. slope.
62.20	Wash, 50 lks. wide, course S.30°W. Enter nearly level land.
71.00	Enter gently rolling land; ascend 27 ft. over E. slope to
80.00	Set an iron post, 3 ft. long, 2 ins. in diam., 12 ins. in the ground to bedrock, with a stone marked with a cross (X) deposited at base, and in a mound of stone to top, for std. cor. of secs. 35 and 36, with brass cap marked
	SC T15S   R10W <u>S35   S36</u> 1940
	No bearing trees available.
	Land, rolling, nearly level, and gently rolling. Soil, rocky, 4th rate. Timber, paloverde and ironwood. Undergrowth, greasewood, sagebrush, and cacti. Scattering sahuaro cactus.

Survey: 3rd Standard Parallel South thru R.10 W.

45

chains	West, on the S. bdy. of sec. 35. Over mountainous land, thru very scattering timber and scattering undergrowth. Ascend 50 ft. over E. slope.
3.00	Knoll; descend 20 ft. over NW. slope.
7.00	Head of ravine, course N.; ascend 117 ft. over NE. slope.
16.50	Spur, slopes N.; descend 20 ft. over NW. slope.
19.23	Descend 89 ft. over broken N. slope.
29.70	S. side of saddle in ridge, bearing N. and S. Papago Peak is in this ridge about $\frac{3}{8}$ miles northerly. This ridge extends southerly about $\frac{3\frac{1}{2}}$ miles, nearly to the U.S.-Mex. International Bdy. From a point in the ridge about 1 mile southerly from this point, a spur ridge extends westerly, crossing the Parallel on S. bdy. of sec. 33, T.15 S., R.10 W. Descend 14 ft. over NW. slope.
32.00	Draw, course SW., near head; ascend 34 ft. over SE. slope to
40.00	Set an iron post, 3 ft. long, 1 in. in diam., 8 ins. in the ground to bedrock, with a stone marked with a cross (X) deposited at base, and in a mound of stone to top, for std. $\frac{1}{4}$ sec. cor., with brass cap marked  SC <u><math>\frac{1}{4}</math> S35</u> 1940  No bearing trees available.  This cor. is at toe of spur, sloping S.20°W.  Descend 74 ft. over SW. slope.
45.00	Enter gently rolling land; descend gradually over SW. slope.
58.90	Descend 34 ft. over SW. slope.
64.00	Draw, course NW.; descend gradually over NW. slope to sec. cor.
73.30	Road, bears NE. and SW.
80.00	Set an iron post, 3 ft. long, 2 ins. in diam., 12 ins. in the ground to bedrock, with a stone marked with a cross (X) deposited at base, and in a mound of stone to top, for std. cor. of secs. 34 and 35, with brass cap marked  SC T15S   R10W <u>S34   S35</u> 1940  No bearing trees available.  U.S. Mineral Monument No. 3445 bears N.20°27'E., 150.70 chs. dist.  Land, mountainous and gently rolling. Soil, rocky, 4th rate. Timber, paloverde and ironwood. Sahuaro cactus. Undergrowth, greasewood, sagebrush, and cacti.



Survey: 3rd Standard Parallel South thru R.10 W.

46

chains	West, on the S. bdy. of sec. 34.
	Over gently rolling land, thru very scattering timber and scattering undergrowth. Descend gradually over NW. slope.
9.10	Wash, 10 lks. wide, course NE.; ascend gradually over NE. slope.
14.00	Wash, 40 lks. wide, course NE. from S.80°W.; ascend gradually over SE. slope to
30.00	Enter mountainous land; ascend 125 ft. over SE. slope.
38.20	Point of spur, slopes S.; descend 32 ft. over SW. slope to
40.00	Set an iron post, 3 ft. long, 1 in. in diam., 28 ins. in the ground, for std. $\frac{1}{4}$ sec. cor., with brass cap marked
	SC <u><math>\frac{1}{4}</math> S34</u> 1940
	No bearing trees available.
	Descend 33 ft. over SW. slope.
42.10	Saddle, and head of wash, course SE.; ascend 194 ft. over NE. slope.
52.00	Spur, slopes NW.; descend 190 ft. over W. slope.
64.60	Wash, 20 lks. wide, course NE.; ascend 263 ft. over broken E. slope.
77.50	Spur, slopes SE.; ascend gradually over S. slope to
80.00	Set an iron post, 3 ft. long, 2 ins. in diam., 28 ins. in the ground, for std. cor. of secs. 33 and 34, with brass cap marked
	SC T15S   R10W <u>S33   S34</u> 1940
	No bearing trees available.
	Raise a mound of stone, 3 ft. base, 2 ft. high, N. of cor.
	Land, E. 30 chs. gently rolling; W. 50 chs. mountainous. Soil, rocky, 4th rate. Timber, paloverde and ironwood. Undergrowth, greasewood, sagebrush, and cacti. Scattering sahuaro cactus.
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	West, on the S. bdy. of sec. 33.
	Over mountainous land, thru very scattering timber and scattering undergrowth. Ascend 123 ft. over head of ravine, course SE.
4.55	Top of broken, granite ridge, about 20 lks. wide, bears NW, and SE.
	A peak in the Agua Dulce Mountains bears S.81 $\frac{1}{2}$ °E. A peak in the " " " " S.72°20'E. A peak in the " " " " S.69°02'E. A crater mountain in Mexico bears S.3°W.

Survey: 3rd Standard Parallel South thru R.10 W.

BOOK 4270

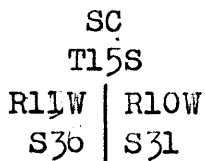
47

chains	<p>A black hill bears S.47°24'W. about 3 miles dist.  A peak bears S.36°42'E..  A peak bears N.4°E. about ½ mile dist.  Papago Peak bears N.55¼°E.</p> <p>Descend 189 ft. over broken SW. slope.</p>
14.00	Head of a canyon, course SW.; ascend 56 ft. over SE. slope.
17.60	Spur, slopes S.; descend 55 ft. over SW. and S. slopes.
22.00	Ridge, bears N.60°E. and SW.; descend 63 ft. over NW. and N. slopes.
27.90	Spur, slopes NW., heading 3 chs. SE. Descend 218 ft. over SW. slope.
39.00	Wash, 10 lks. wide, course S.; ascend 10 ft. over SE. slope to
40.00	Set an iron post, 3 ft. long, 1 in. in diam., over a cross (X) chiseled on exposed bedrock, and in a mound of stone to top, for std. ¼ sec. cor., with brass cap marked
	SC <u>¼ S33</u> 1940
	No bearing trees available.
	Ascend 16 ft. over SE. slope.
42.00	Spur, slopes SW.; descend 141 ft. over NW. slope.
51.60	Wash, 40 lks. wide, course NW.; ascend 64 ft. over NE. and N. slopes to
61.00	Wash, 10 lks. wide, course N.; ascend 82 ft. over NE. slope.
65.30	Spur, slopes N.; descend 172 ft. over W. slope to
80.00	Set an iron post, 3 ft. long, 2 ins. in diam., 27 ins. in the ground, for std. cor. of secs. 32 and 33, with brass cap marked
	SC T15S   R10W <u>S32   S33</u> 1940
	No bearing trees available.
	Raise a mound of stone, 4 ft. base, 3 ft. high, N. of cor.
	Land, mountainous. Soil, rocky, 4th rate. Timber, ironwood and paloverde. Undergrowth, greasewood and cacti. Scattering sahuaro cactus.
	----- West, on the S. bdy. of sec. 32.
	Over gently rolling land, thru very scattering timber and scattering undergrowth. Descend 35 ft. over W. slope.
17.00	Wash, 40 lks. wide, course SW. Thence over nearly level land.

## Survey: 3rd Standard Parallel South thru R.10 W.

chains	
40.00	Set an iron post, 3 ft. long, 1 in. in diam., 27 ins. in the ground, for std. $\frac{1}{4}$ sec. cor., with brass cap marked  SC <u><math>\frac{1}{4}</math> S32</u>  1940  No bearing trees available.  Raise a mound of stone, 3 ft. base, 2 ft. high, N. of cor.
42.40	Wash, 30 lks. wide, course SW.
68.00	Wash, 20 lks. wide, course SW.
80.00	Set an iron post, 3 ft. long, 2 ins. in diam., 27 ins. in the ground, for std. cor. of secs. 31 and 32, with brass cap marked  SC T15S   R10W <u>S31   S32</u>  1940  No bearing trees available.  Raise a mound of stone, 3 ft. base, 2 ft. high, N. of cor.  Land, gently rolling and nearly level. Soil, gravelly, 3rd rate. Timber, ironwood and paloverde. Undergrowth, greasewood and cacti. Scattering sahuaro cactus.
	----- West, on the S. bdy. of sec. 31.  Over nearly level land, thru very scattering timber and scattering undergrowth.
20.00	Wash, 100 lks. wide, course SW.
40.00	Set an iron post, 3 ft. long, 1 in. in diam., 27 ins. in the ground, for std. $\frac{1}{4}$ sec. cor., with brass cap marked,  SC <u><math>\frac{1}{4}</math> S31</u>  1940  No bearing trees available.  Raise a mound of stone, 2 $\frac{1}{2}$ ft. base, 1 $\frac{1}{2}$ ft. high, N. of cor.
64.00	Wash, 60 lks. wide, course S. Enter gently rolling land. Ascend 30 ft. over E. slope.
71.70	Low spur, slopes S.; descend gradually over W. slope.
80.00	Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, in a small mound of stones to top, for the cor. of lots 11 and 12, Sec. 31, with brass cap marked  S31 <u>L11   L12</u>  1942  No bearing trees available.

- chains
- 90.00 Leave gently rolling, and enter heavily rolling land in the O'Neill Hills.
- 95.00 Spur, slopes S.; descend 46 ft. over W. slope.
- 99.90 Draw, course S.; ascend 18 ft. over E. slope.
- 101.60 Spur, slopes S.; descend 40 ft. over W. slope.
- 106.53 Foot of slope, bears N. and S. Enter nearly level land.
- 113.00 Set an iron post, 3 ft. long, 3 ins. in diam., 28 ins. in the ground, for std. cor. of Ts.15 S.,Rs.10 and 11 W., with brass cap marked



1940

No bearing trees available.

Raise a mound of stone, 3½ ft. base, 2½ ft. high, N. of cor.

This Tp. cor. is established at a point due South from the SE. cor. of T.10 S., R.11 W., as determined by survey of random range line therefrom to point of intersection with the Parallel.

Land, nearly level, gently and heavily rolling.  
 Soil, gravelly and rocky, 3rd and 4th rates.  
 Timber, paloverde and ironwood.  
 Undergrowth, greasewood and cacti.  
 Scattering sahuaro cactus.

-----  
 GENERAL DESCRIPTION.  
 -----

3rd Standard Parallel South in R.10 W.

The 3rd Standard Parallel South thru R.10 W. forms the S. bdy. of T.15 S., R.10 W. Subsequent to the survey of the Parallel in this range as hereinbefore described, the E., W., and N. bdrs. of said Tp. were surveyed under this group. Fractional T.16 S., R.10 W. lies S. of the Parallel in this range, and is rendered fractional by the International Boundary between the United States and Mexico. None of the exteriors were surveyed under this group. T.15 S., R.10 W., and Frac. T.16 S., R.10 W. are both within the Cabeza Prieta Game Range, and Arizona Grazing District No. 3.

The surface of the land along the Parallel in R.10 W. is nearly level, gently rolling, rolling, heavily rolling, and mountainous. The mountainous land, part of the Agua Dulce Mts., is located on S. bdy. of sec. 33, the W. 50 chs. of S. bdy. of sec. 34, and the E. 45 chs. of S. bdy. of sec. 35. The heavily rolling land is in the O'Neill Hills, crossing the western part of S. bdy. of sec. 31. The surface classified as rolling is in the E. ¼ of S. bdy. of sec. 36. Gently rolling and nearly level surfaces are located in parts of all of the secs. except sec. 33. The soil of the E. 4 miles is mainly rocky, 4th rate, and of the remainder of the line, gravelly, 3rd rate.

Survey: 3rd Standard Parallel South thru R.10 W.

The timber, paloverde and ironwood, is of small size, and is very scattering thru the entire range.

Scattering sahuaro cactus is prevalent in all secs.

The undergrowth, greasewood, sagebrush, and small cacti, is scattering all along the line.

There are no flowing streams of water, or springs, on or near the Parallel in this range, and no wells or tanks.

The greater part of the drainage, thru dry washes, is southerly.

There is no evidence of valuable mineral deposits near the Parallel in this range.

There are no improved roads. Two unimproved, natural desert roads cross the line, bearing NE. and SW., one on the E $\frac{1}{2}$  of S. bdy. of sec. 36, and the other on W $\frac{1}{2}$  of S. bdy. of sec. 35.

There are no settlers or improvements along the line, nor in the near vicinity.

chains	From the std. cor. of Ts.15 S., Rs.10 and 11 W., herein- before described,  West, on the S. bdy. of sec. 30.  Over nearly level land, draining S., thru very scattering timber and scattering undergrowth.
35.00	Enter rolling land, at the southerly end of the O'Neill Hills. Ascend 44 ft. over SE. slope.
38.50	Point of spur, slopes S.; descend 12 ft. over SW. slope to
40.00	Set an iron post, 3 ft. long, 1 in. in diam., 27 ins. in the ground, for std. $\frac{1}{4}$ sec. cor., with brass cap marked,  SC <u>  <math>\frac{1}{4}</math> S36</u> 1940  No bearing trees available.  Raise a mound of stone, 3 ft. base, 2 ft. high, N. of cor.  Descend 33 ft. over SW. slope.
47.20	Wash, 50 lks. wide, course S. Enter gently rolling land.
60.30	Wash, 50 lks. wide, course S.
71.50	Wash, 30 lks. wide, course S.; ascend gradually over SE. slope to
80.00	Set an iron post, 3 ft. long, 2 ins. in diam., 18 ins. in the ground to bedrock, with a stone marked with a cross (X) deposited at base, and in a mound of stone to top, for std. cor. of secs. 35 and 36, with brass cap marked,  SC <u>  T15S   R11W</u> S35   S36 1940.  No bearing trees available.  Land, nearly level, rolling, and gently rolling. Soil, sandy and gravelly, and rocky, 2nd, 3rd and 4th rates. Timber, paloverde and ironwood. Undergrowth, greasewood and cacti. Scattering sahuaro cactus.
	----- West, on the S. bdy. of sec. 35.  Over gently rolling land, thru very scattering timber and scattering undergrowth. Ascend gradually over SE. slope.
15.00	Enter rolling land. Ascend 34 ft. over SE. slope.
20.00	Spur, slopes S.; descend 45 ft. over W. slope.
22.20	Wash, 5 lks. wide, course S.; ascend 52 ft. over E. slope.
25.00	Spur, slopes S.; descend 80 ft. over W. slope to
35.00	Foot of slope, bears NW. and SE. Enter nearly level land.
37.40	Center of wash or overflow, course SE., 3.00 chs. wide.

Survey: 3rd Standard Parallel South thru Frac. R.11 W.

52

chains	
40.00	Set an iron post, 3 ft. long, 1 in. in diam., 27 ins. in the ground, for std. $\frac{1}{4}$ sec. cor., with brass cap marked  SC <u><math>\frac{1}{4}</math> S35</u> 1940  No bearing trees available.  Dig pits 18x18x12 ins., one each E. and W. of cor. 3 ft. dist.
60.00	Wash or overflow, 100 lks. wide, course SE.
80.00	Set an iron post, 3 ft. long, 2 ins. in diam., 27 ins. in the ground, for std. cor. of secs. 34 and 35, with brass cap marked  SC T15S   R11W <u>S34   S35</u> 1940  No bearing trees available.  Raise a mound of stone, 3 ft. base, 2 ft. high, N. of cor.  Land, gently rolling, rolling, and nearly level. Soil, sandy, gravelly, and rocky, 2nd, 3rd and 4th rates. Timber, ironwood and paloverde. Undergrowth, greasewood, sagebrush, and cacti. Scattering sahuaro cactus.
	----- West, on the S. bdy. of sec. 34.  Over nearly level land, thru very scattering timber and scattering undergrowth. Ascend gradually over E. slope.
16.50	Dim road, bears N. and S.
17.00	Low, sandy ridge or divide, bears N. and S. Descend gradually over W. slope.
38.00	Wash or overflow, 150 lks. wide, course S.
40.00	Set an iron post, 3 ft. long, 1 in. in diam., 27 ins. in the ground, for std. $\frac{1}{4}$ sec. cor., with brass cap marked,  SC <u><math>\frac{1}{4}</math> S34</u> 1940  No bearing trees available.  Raise a mound of stone, 2 $\frac{1}{2}$ ft. base, 1 $\frac{1}{2}$ ft. high, N. of cor.
43.30	Road, bears N. and S.; extends northerly to the Papago Well- Tule Well road, and southerly into Mexico, passing by a reservoir formed by an old earth and rock dam. This reservoir is located SW. of Monument No. 179 on the International Boundary. It contained no water at the time of this survey. Near the dam the road forks, one branch extending easterly and almost parallel to the International Boundary, and the other branch continuing southerly to the main road between Sonoita and San Luis, Mexico.

Survey: 3rd Standard Parallel South thru Frac.R. 11 W.

53

chains  
80.00

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

SC  
T15S, R11W  
S33 | S34

1940

No bearing trees available.

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

Land, nearly level.

Soil, sandy and gravelly, 2nd and 3rd rates.

Timber, ironwood and paloverde.

Undergrowth, greasewood, sagebrush, and cacti.

Scattering sahuaro cactus.

-----  
West, on the S. bdy. of sec. 33.

Over nearly level land, thru very scattering timber and scattering undergrowth.

40.00

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

SC  
 $\frac{1}{4}$  S33

1940

No bearing trees or stones for mound available.

Dig pits 18x18x12 ins., one each E. and W. of post, 3 ft. dist.

75.00

East edge of a large dry bed of a lake, known as Las Playas. Thence across dry lake bed, strewn with small malpais rocks.

80.00

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

SC  
T15S, R11W  
S32 | S33

1940

No bearing trees or stones for mound available.

Dig pits 18x18x12 ins., one each E., W., and N. of cor., 3 ft. dist.

Land, nearly level. West 5 chs. in dry lake bed.

Soil, sandy and gravelly, 2nd and 3rd rates. In the lake bed is a black sand mixed with small malpais rocks.

Timber, ironwood.

Undergrowth, greasewood, sagebrush, and cacti.

Scattering sahuaro cactus.

-----  
West, on the S. bdy. of frac. sec. 32.

Over level land, thru very scattering timber and scattering undergrowth, across dry bed of a lake known as Las Playas.



## BOOK 4270

Survey: 3rd Standard Parallel South thru Frac. R.11 W.

54

chains	
34.00	West edge of dry lake bed. (Las Playas) bears NW. and SE. Leave lake bed and enter gently rolling land in low black malpais hills. Ascend 20 ft. over gradual NE. slope to
40.00	Set an iron post, 3 ft. long, 1 in. in diam., 10 ins. in the ground to bedrock, with a stone marked with a cross (X) deposited at base, and in a mound of stone to top, for std. $\frac{1}{4}$ sec. cor., with brass cap marked
	SC <u><math>\frac{1}{4}</math> S32</u> 1940
	No bearing trees available.
	Continue over gently rolling land, thru low black malpais hills, gradually ascending.
43.50	The old road, known as the Camino el Diablo, used in the period 1860-70 as a line of travel between points in Mexico, and the gold mining areas along the Colorado River in Arizona. At irregular intervals along this road are various designs formed of rocks spread upon the ground, evidently made as guides to the travellers. This road bears NW. and SE. at this point.
52.00	A point from which a cross in a circle of rocks, and an arrow pointing SW., all constructed by rocks spread upon the ground, on N. side of the Camino el Diablo, bears north about 100 lks. dist.
75.64	Intersect the International Boundary Line between the United States and Mexico, between Monuments Nos. 179 and 180 thereon.
	At point of intersection, Set an iron post, 3 ft. long, 3 ins. in diam., 27 ins. in the ground, for std. closing corner of Fractional Tp.15 S., R.11 W., with brass cap marked
	SC T15S R11W S32 CC US MEXICO 1940
	No bearing trees available.
	Raise a mound of stone, 4 ft. base, 2 ft. high, E. of cor.
	Monument No. 180 on the U.S.-Mex. International Bdy. bears N.70°20'W., 22.75 chs. dist.
	Land, level and gently rolling. Soil, sandy, gravelly and rocky, 3rd and 4th rates. Timber, ironwood, mesquite and paloverde. Undergrowth, greasewood, sagebrush, and cacti.
	GENERAL DESCRIPTION. 3rd Standard Parallel South in Frac. R.11 W.
	The 3rd Standard Parallel South thru Frac. R.11 W. forms the S. bdy. of Frac. T.15 S., R.11 W., the E., W., and N. bdrs. of which were surveyed under this group, subsequent to the survey of the Parallel hereinbefore described.

Frac. T.16 S., R.11 W., lying between the Parallel and the International Boundary between the United States and Mexico, is unsurveyed, and its E. bdy. was not surveyed under this group.

Frac. Ts.15 and 16 S., R.11 W. are both entirely within the Cabeza Prieta Game Range, and Arizona Grazing District No. 3.

The surface of the land along the Parallel in this range is level, nearly level, gently rolling and rolling. The rolling land is in the middle of S.bdy. of sec.36, and E $\frac{1}{2}$  of S.bdy. of sec.35, being on spurs from the southerly end of the O'Neill Hills, and gently rolling surface is located between these areas, and on the west end of the line

beyond the Las Playas dry lake bed. The remainder of the line crosses a nearly level surface, except the west 5 chs. of S. bdy. of sec.33, and the east 34 chs. of S. bdy. of sec.32, which lies in the level bed of a large dry lake, about 70 acres in area, known as Las Playas.

The drainage of the east 3 miles of the line is southerly, and the remainder of the line drains in all directions into Las Playas.

The soil is sandy, gravelly and rocky, 2nd, 3rd and 4th rates.

The timber, very scattering, is of small size, and consists of paloverde, ironwood and mesquite.

A scattering growth of sahuaro cactus is prevalent all along the line, and about 2 $\frac{1}{2}$  miles north from the std.cor. of secs.34 and 35 there are a number of extremely large specimens of this cactus which have attained an immense height.

The undergrowth, scattering all along the line, consists of greasewood, sagebrush, and small cacti.

There are no flowing streams of water, or springs, on or close to the line, and no wells or tanks.

There is no evidence of valuable mineral deposits near the Parallel in this range.

There are no improved roads. Two roads, bearing N. and S. cross the S. bdy. of sec.34, and one road, bearing NW. and SE. crosses the S. bdy. of sec.32 near the  $\frac{1}{4}$  sec.cor. These roads extend into Mexico.

There are no settlers or improvements along the line, or in close proximity thereto.

SOLAR OBSERVATION FOR TIME AND LATITUDE.

The latitude used for solar observations during the survey of the 3rd Standard Parallel South described in the foregoing field notes was shown on the diagram accompanying the special instructions as 32°04'06" N. for the Parallel. This latitude was verified in the field from time to time by numerous observations upon the sun and stellar bodies, one of which observations is described as follows:

December 5, 1939; at station 5 chs. E. of the std. cor. of secs.33 and 34, T.15 S., R.4 W., G. & S.R. M., Arizona, longitude 112°40 $\frac{1}{2}$ ' W., make a meridian observation of the sun for time and latitude, observing simultaneously the altitude of the sun's lower limb and the transit of the sun's west limb; reversing the telescope and observing simultaneously the altitude of the sun's upper limb and the transit of the sun's east limb:

Mean observed altitude:	35°35'40"
Reduced latitude:	32°04'00"
Watch fast of l.m.t.:	3lm. 34s.

Survey: 3rd Standard Parallel South thru Rs.3 to 11 W., incl.

FINAL FIELD TEST OF INSTRUMENT.

The continued satisfactory adjustment of Buff transit No. 18000 throughout the survey of the 3rd Standard Parallel South thru Rs.3 to 11 W. incl., described in the foregoing field notes, is indicated by the preliminary field tests of same in Books "C" and "D" of this group.



220  
50

BOOK 4270

CERTIFICATE OF SURVEYOR

I, Benjamin J. Kinsey, Associate Cadastral Engineer, HEREBY CERTIFY upon honor that, in pursuance of special instructions bearing date of the 27th day of October 1939, received from the district cadastral engineer for Arizona, with assignment instructions dated November 6 1939, I have surveyed the Third Standard Parallel South, thru Ranges 3, 4, 5, 6, 7, 8, 9, 10, and frac. 11 West; being the South boundaries of Townships 15 South, Ranges 3, 4, 5, 6, 7, 8, 9, and 10 West, and Frac. Tp. 15 S., R. 11 W., of the Gila & Salt River 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 said survey has been made in strict conformity with said instructions, the Manual of Instructions for the Survey of the Public Lands of the United States, and in the specific manner described in the foregoing field notes.

Phoenix, Arizona  
Dec. 14, 1941.

*Benjamin J. Kinsey*  
Associate Cadastral Engineer  
(formerly Cadastral Engineer)

CERTIFICATE OF APPROVAL

OFFICE OF SUPERVISOR OF SURVEYS,  
Denver, Colo., May 19 1943.

The foregoing field notes of the survey of the Third Standard Parallel South, thru Ranges 3, 4, 5, 6, 7, 8, 9, 10, and frac. 11 West; as the South bdrs. of Townships 15 South, same ranges West, of the Gila and Salt River Meridian, State of Arizona. executed by Benjamin J. Kinsey, Cadastral Engineer, under special instructions dated October 27, 1939, for Group 230, Ariz., and assignment instructions dated November 6, 1939, having been critically examined, and the necessary corrections made prior to their certification by the engineer, the said field notes, and the survey therein described, are hereby approved.

*Russell H. Allen*  
Acting Assistant Supervisor of Surveys.

~~CERTIFICATE OF TRANSCRIPT~~

~~I certify that the foregoing transcript of the field notes of the above described surveys in~~  
~~is a true copy of the original field notes on file in the public survey office.~~

~~Supervisor of Surveys~~