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Original

4-679
(April 1933)

Book F.

BOOK 4144

4144

FIELD NOTES

of the

dependent resurvey of the Third Standard Parallel South, along the
South boundary of Township 15 South, through a portion of Range 17
East; a part of the subdivisional lines of Township 16 South, Range
17 East; and the survey of a part of the subdivisional lines, com-
pleting the subdivision of Township 16 South, Range 17 East,

Of the Gila and Salt River Meridian,

In the State of Arizona

EXECUTED BY

Horace M. Muscott, Public Land Surveyor, General Land Office,

4144

Under special instructions dated October 3, 1934, which provided
for the surveys included under Group No. 205, bearing the approval of the
Commissioner of the General Land Office under date of November 29, 1935,
and assignment instructions dated February 4, 1936,

Survey commenced March 26, 1936.

Survey completed April 21, 1936.

INDEX DIAGRAM.

Township _____, *Range* _____

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INDEX DIAGRAM.

Township 16 South, Range 17 East

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Dependent resurvey of the 3rd Standard Parallel South, along part of the S.bdy. of T.15 S., R.17 E.

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The survey was executed with a Buff and Buff Solar transit, Serial No. 16723, The horizontal circle has a diameter of $4\frac{1}{2}$ inches and two double opposite verniers reading to single minutes; the diameter of the vertical circle is 4 inches with one double vernier reading to single minutes. The instrument was in good condition and, having been placed in satisfactory adjustment prior to beginning the survey and tested and found free from appreciable error, was approved by the district cadastral engineer on February 4, 1936. All instrumental adjustments were examined before making field tests, hereinafter recorded.

The directions of all lines were determined by solar transit method. The measurements were made with a Lallie steel tape 5 chains in length, graduated every link for the first 100 links, and the balance at intervals of 10 links. The tape was tested by comparison with a Lufkin standard and found correct. The measurements were made on the slope and the vertical angle of each interval was ascertained by a clinometer in good adjustment; the horizontal equivalents are entered in the field note record.

The data furnished with the special instructions gives the geographical position of the SE corner of the township as follows: Latitude, $31^{\circ}59'24''N.$, and Longitude, $110^{\circ}33'18''W.$

March 26, 1936, in camp near the NE cor. of section 6, T.16 S., R.17 E., at 7h 19m., PM, l.m.t., I 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, on a peg driven firmly in the ground, 5 chains North.

Azimuth of Polaris at Western Elongation $1^{\circ}13'20''W.$

March 27, 1936: In order to verify the Latitude of this station and the reading of my watch, I make a meridian observation of the sun, first setting on the lower limb then, after reversal of the instrument, setting on the upper limb and making the transit of the East limb as follows:

Mean observed altitude	$60^{\circ}42'20''$
Reduced latitude	$32^{\circ}04' N.$
Watch time of observation	12h27m36s.
Watch fast of l.m.t.	22m13s.

At 30 minute intervals during AM and PM hours, I make proper settings on the arcs of the solar attachment and ascertain that the resulting orientation of the instrument when compared with the meridian determined by observation on Polaris, has a maximum error of less than $1'30''$.

The Third Standard Parallel South, through Range 17 East, was surveyed by T.F. White in 1873; the west $4\frac{1}{2}$ miles was resurveyed by J.H. Martineau in 1893, and the east $1\frac{1}{2}$ miles was resurveyed by Charles E. Hunter in 1932. No other surveys or resurveys are of record.

The following notes describe a dependent resurvey of the Third Standard Parallel South, along the south boundary of sections 32, 33, 34, and the $W\frac{1}{2}$ of section 35.

From the Standard Cor. of secs. 31 and 32, on the S.bdy. of T.15 S., R.17 E.

East on a random line along the 3rd Stan. Par. S., searching for corners at record distances.

Dependent resurvey of the 3rd Standard Parallel South,
along part of the S.bdy.of T.15 S.,R.17 E.

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Chains	
40.00	Find no evidence of the $\frac{1}{4}$ sec.cor. Set temp.cor.
69.28	Intersect the clos.cor.of secs.4 and 5.
79.68	Intersect the Stand.cor.of secs.32 and 33.
118.88	The Stand. $\frac{1}{4}$ sec.cor.of sec 33 bears N.11 lks.dist.
157.36	The Stand.cor.of secs 33 and 34 be ars N.17 lks.dist.
196.95	Intersect the Stand. $\frac{1}{4}$ sec.cor.of sec.34.
234.76	The Stand.cor.of secs.34 and 35 bears S. 12 lks.dist.
273.57	The Stand. $\frac{1}{4}$ sec.cor.of sec.35 bears S. 29 lks.dist.
	Return to the Stand.cor.of secs 31 and 32, which is a mound of earth, with a badly decayed mesquite post, 4 ins. sq., 30 ins. long, with no visible marks, lying alongside.
	At point for cor.in center of mound,
	Set an iron post, 3 ft. long, 2 ins. diam., 28 ins. in the ground, and in a small mound of stone to top, with the original post alongside, for Stand.cor.of secs.31 and 32, with brass cap marked.
	SC T15S R17E S31 S32 1936
	Old bearing tree
	A dead mesquite, 12 ins. diam., bears S. $45\frac{1}{2}^{\circ}$ E., 97 lks. dist., old blaze badly decayed, no marks legible.
	New bearing trees
	A mesquite, 9 ins. diam., bears N. $56\frac{1}{2}^{\circ}$ E., 216 lks. dist., mkd. T 15 S R 17 E S 32 B T.
	A mesquite, 5 ins. diam., bears N. $48\frac{3}{4}^{\circ}$ W., 168 lks. dist., mkd. T 15 S R 17 E S 31 S C B T.
	East on a true line along the S.bdy. of sec. 32.
	Over rolling land, through scattering brush.
10.58	Wash, 10 lks. wide, 2 ft. deep, course N. 20° W.
26.98	Trail, bears NE and SW.
34.08	Wash, 10 lks. wide, 2 ft. deep, course N.
39.58	Wash, 4 lks. wide, 2 ft. deep, course N. 15° W.
39.84	Proportional distance
	Set an iron post, 3 ft. long, 1 in. diam., 28 ins. in the ground for Stand. $\frac{1}{4}$ sec.cor., with brass cap marked
	S C $\frac{1}{4}$ S 32 1936
	from which
	A mesquite 5 ins. diam., bears N. $83\frac{1}{4}^{\circ}$ E., 122 lks. dist., mkd. $\frac{1}{4}$ S 32 S C B T.

Chains

A mesquite, 4 ins. diam., bears N. 67° E., 84 lks. dist.
mkd. $\frac{1}{4}$ S 32 S C B T.

43.28 Ascend 200 ft. over NW slope.

53.28 A four strand wire fence bears NE and SW.

59.68 Wash, 6 lks. wide, 3 ft. deep, course N. Continue ascent
over steep NW slope.

67.28 Spur, slopes N. Desc. 107 ft. over NE slope.

69.28 The original clos. cor. of secs. 4 and 5, T.16 S., R.17 E.,
which is a mesquite post, 4 ins. sq., 3 ft. above ground,
firmly set in a small mound of stone, no marks visible.

At the true point for cor.

Set an iron post, 3 ft. long, 2 ins. diam., 28 ins. in the
ground, with the old post alongside, for clos. cor. of secs.
4 and 5, of T.16 S., with brass cap mkd.

T15S R17E	
S32	
S4	S5
T16S	R17E
C C	
1936	

from which

Old bearing trees

A mesquite, dead, 6 ins. diam., bears N. 9 $\frac{1}{2}$ ° E., 163 lks.
dist. No evidence of marks.

A mesquite, 12 ins. diam., bears S. 13 $\frac{1}{2}$ ° E., 31 lks. dist.,
Marks grown over.

A mesquite, 13 ins. diam., bears S. 26 $\frac{1}{2}$ ° W., 90 lks. dist.
Marks grown over.

A dead mesquite, 18 ins. diam., bears N. 72 $\frac{1}{2}$ ° W. 225 lks.
dist. No marks visible.

New bearing trees

A bebalania, 4 ins. diam., bears S. 15 $\frac{3}{4}$ ° E., 102
lks. dist., mkd. T 16 S R 17 E S 4 CC BT.

A mesquite, 5 ins. diam. bears S. 59 $\frac{3}{4}$ ° W., 28 lks. dist.,
mkd. T 16 S R 17 E S 5 CC BT.

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

Continue ascent over NE slope.

79.68 The Stand. cor. of secs. 32 and 33, which is a mound of
stone,

At point for cor. in old mound

Set an iron post, 3 ft. long, 2 ins. diam., 28 ins. in the
ground for Stand. cor. of secs. 32 and 33, with brass
cap mkd.

S C	
T15S	R17E
S32	S33
1936	

Dependent resurvey of the 3rd Standard Parallel South,
along part of the S.bdy. of T. 15 S., R. 17 E.

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Chains

Original bearing trees

A dead mesquite, 5 ins. diam., bears S. 55 $\frac{1}{2}$ ° E., 68 lks. dist., marks dim and illegible. Destroy evidence of marks.

A dead mesquite, 4 ins. diam., bears S. 51 $\frac{3}{4}$ ° W., 48 lks. dist., mkd. TXV1S RXV11E. I destroy evidence of the marks.

No remaining evidence of accessory mound of stone or other record bearing trees.

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

Land, rolling and mountainous.
Soil, stony and gravelly clay; 3rd and 4th rate.
Timber, None; undergrowth, mesquite, catclaw, paloverde, ocotillo, yucca, sotol, and greasewood.

N. 89° 50' E. on true line along the S. bdy. of Sec. 33.

Desc. 92 ft. over NE slope, through scattering timber and brush.

9.20 Road, bears N. and S., in wash, 10 lks. wide, 2 ft. deep, course N. Ascend 185 ft. over NW slope.

22.00 Rocky spur, slopes N.; desc. 62 ft. over NE slope.

26.25 Wash, 8 lks. wide, 1 ft. deep, course NW; asc. 165 ft. over broken SW slope.

39.20 The Stand. $\frac{1}{4}$ sec. cor., which is the decayed remains of a post in a mound of stone.

At point for cor.

Set an iron post, 3 ft. long, 1 in. diam., over a cross (X) cut in bedrock, and in a mound of stone, 4 ft. base, 2 $\frac{1}{2}$ ft. high, with remains of old post deposited at base, for Stan. $\frac{1}{4}$ sec. cor., with brass cap mkd.

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

1936

N. 98° 55 E., on true line along the S. bdy. of sec. 33.

0.50 Rocky spur, slopes NW.; desc. 75 ft. over NE slope.

3.00 Small wash, course N. 30° E.; asc. 145 ft. over broken NW slope.

18.40 Rocky spur, slopes N. Asc. gradually along N. slope.

26.00 Ridge, bears N. 80° E. and S. 80° W., thence along S. slope.

29.00 Rocky spur, slopes S. Desc. 295 ft. over broken SE slope.

35.90 Bottom of Mountain Spring Canyon; wash 15 lks. wide, course S. from N. 60° E. Asc. 15 ft. to cor. through dense brush and timber.

38.48 Point for Stan. cor. of secs. 33 and 34, determined from original bearing trees.

Set an iron post, 3 ft. long, 2 ins. diam., 28 ins. in the

Dependent resurvey of the 3rd Standard Parallel South,
along part of the S. bdy. of T.15 N., R.17 E.

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Chains	<p>ground, for Stan. cor. of secs. 33 and 34, with brass cap mkd.</p> <p style="text-align: center;">SC T15S R17E S33 S34</p> <p style="text-align: center;">1936</p> <p>Old bearing trees</p> <p style="text-align: right;">from which</p> <p>A hackberry, 11 ins. diam., bears N. 35° E., 130 lks. dist., marks grown over.</p> <p>A mesquite, 16 ins. diam., bears S. 88½° E., 190 lks. dist., mkd. distinctly TXVLSRXVILE. I destroy the marks.</p> <p>A mesquite, 10 ins. diam., bears S. 35° E., 109 lks. dist., blaze badly decayed, marks illegible.</p> <p>An ash, 10 ins. diam., bears N. 17½° W., 121 lks. dist., blaze badly decayed, marks illegible.</p> <p>New bearing trees</p> <p>A mesquite, 8 ins. diam., bears N. 8° E., 70 lks. dist., mkd. T 15 S R 17 E S 34 S C B T.</p> <p>A hack berry, 8 ins. diam., bears N. 52½° W., 88 lks. dist., mkd. T 15 S R 17 E S 33 S C B T.</p> <p>Land, mountainous. Soil, stony; 3rd and 4th rate. Timber, mesquite, ash and hackberry in bottom of Mountain Springs Canyon; undergrowth, mesquite, catclaw, paloverde, ocotillo, yucca, sotol, and squaw brush.</p> <p style="text-align: center;">-----</p> <p>S. 89° 45' E. on true line along the S. bdy. of sec. 34. Asc. 230 ft. over rolling NW slope, through heavy timber and brush.</p> <p>3.50 Wash, 8 lks. wide, 2 ft. deep, course N. Continue ascent.</p> <p>10.35 Corner of fence lines from N. 30° W. and S. 60° E., bears N. 150 lks. dist.</p> <p>15.30 Wash, 6 lks. wide, 2 ft. deep, course N. 30° W. Continue ascent.</p> <p>16.45 A 5 strand wire fence bears N. 60° W. and S. 60° E.</p> <p>22.90 Wash, 6 lks. wide, 2 ft. deep, course NW. Continue ascent.</p> <p>29.30 Wash 25 lks. wide, 3 ft. deep, course NW. Continue ascent.</p> <p>33.80 Spur, slopes NW. Continue over broken N. slope.</p> <p>39.59 The Stand. ¼ sec. cor., which is a mound of stone with unmarked, decayed fragments of a mesquite post lying thereon. At point for cor., in old mound.</p> <p>Set an iron post, 3 ft. long, 1 in. diam., 9 ins. in the ground, over a cross (X) cut in bedrock, and in a mound of stone, 3 ft. base, to top of post, with fragments of old post deposited at base, for Stan. ¼ sec. cor., with brass cap mkd.</p> <p style="text-align: center;">S C ¼ S 34</p> <p style="text-align: center;">1936</p> <p>S. 89° 49' E., on a true line along the S. bdy. of sec. 34.</p>
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Dependent resurvey of the 3rd Standard Parallel South,
along part of the S.bdy. of T.15 S.,R.17 E.

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Chains	Asc. 507 ft over broken NW slope, through scattering brush.
20.70	Rocky spur, slopes N.; thence along N. slope.
25.20	Rocky spur, slopes NE. Descend 122 ft. over NE slope.
35.75	Wash, 12 lks. wide, 2 ft deep, course N.15°W. Ascend 58 ft. over W. slope.
37.81	The Stand. cor. of secs. 34 and 35, which is a mound of stone.
	At point for cor. in old mound,
	Set an iron post, 3 ft. long, 2 ins. diam., 9 ins. in the ground, to bedrock and in a mound of stone, 4 ft. base, 2 ft. high, for Stan. cor. of secs. 34 and 35, with brass cap mkd.
	SC T15S R17E S34 S35 ----- 1936
	from which
	Old bearing tree
	A double white oak, 20 ins. diam., bears, N.73 3/4°W. 230 lks. dist., old blaze overgrown. I additionally mark this tree T15 S R 17 E S 34 SC BT.
	New bearing object
	A granite boulder, 5x3x2 ft., bears N.17 1/2°E. 88 lks. dist., marked X B O S 35.
	Land, mountainous. Soil, gravelly and stony clay; 3rd. and 4th. rate. Timber, ash, oak, hackberry and mesquite; undergrowth, mesquite, catclaw, ocotillo, scrub oak, cacti and yucca.

	S.89° 45' E. on a true line along the S. bdy. of sec. 35. Asc. 65 ft. over steep NW slope, through scattering timber and brush.
3.20	Spur, slopes N. 30° W.; thence along N. slope.
8.00	Swale, drains N.; asc. 56 ft. over NW slope.
12.80	Top of ridge, bearing S.30°W. and N.30°E.; asc. 433 ft. over SE slope.
13.35	A four strand wire fence, bears N.30°E. and S.30°W.
33.90	Enter wash, 80 lks. wide, 3 ft. deep, course S.; Water in holes.
34.70	Leave wash; asc. 40 ft. over SW slope.
38.81	The Stand. 1/4 sec. cor. which is an iron post, 1 in. diam., 6 ins. above ground, firmly set and marked and witnessed as described in the official record.
	Land, mountainous. Soil, stony; 3rd. and 4th. rate. Timber, scattering oak on the N. slopes; undergrowth, mesquite, catclaw, ocotillo, paloverde, sotol, yucca and cacti.

Dependent resurvey of subdivisional lines of
T. 16 S., R. 17 E.

Chains

A portion of the subdivisional lines of T. 16 S., R. 17 E. was surveyed by T. F. White in 1874. C. E. Hunter in 1932, resurveyed the S. and W. bdrs. of sec. 1. There are no other surveys or resurveys of record.

The following notes describe a resurvey of the section lines forming the boundary of the unsurveyed area, and completion of the subdivision of T. 16 S., R. 17 E.

From the cor. of secs. 11, 12, 13 and 14.

North on a random line bet. secs. 11 and 12.

39.82 A point 27 lks. E. of the $\frac{1}{4}$ sec. cor.

79.48 A point 58 lks. E. of the cor. of secs. 1, 2, 11 and 12.

Return to the cor. of secs. 11, 12, 13 and 14, which is the remains of a badly decayed post, 4 ins. sq., 2 ft. above ground, with dim, illegible marks.

At point for cor.

Set an iron post, 3 ft. long, 2 ins. diam., 18 ins. in the ground to bedrock, with a $\frac{1}{2}$ pint bottle deposited at the base, and in a mound of stone, 2 ft. base to top of post, with the original post alongside, for cor. of secs. 11, 12, 13 and 14, with brass cap mkd.

T 16 S R 17 E
S11 | S12
S14 | S13
1936

from which

Stump of original bearing tree bears N. $59\frac{1}{4}^{\circ}$ W., 118 lks. dist. No marks.

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

Thence

N. $0^{\circ} 23' W.$ on true line bet. secs. 11 and 12.

Asc. 31 ft. over SE slope, through scattering brush.

10.50 Spur, slopes S. $15^{\circ} W.$ from N. $30^{\circ} E.$; desc 90 ft. over NW slope.

22.85 Wash, 16 lks. wide, 2 ft. deep, course SW.; asc. 90 ft. over SE slope.

34.00 Spur, slopes E.; desc. 15 ft. over NE slope.

39.10 Wash, 60 lks. wide, 1 ft. deep, course S. $75^{\circ} E.$; Asc. 15 ft.

39.82 The $\frac{1}{4}$ sec. cor. which is a small mound of stone, with a badly decayed mesquite stake lying alongside.

At point for cor. in old mound.

Set an iron post, 3 ft. long, 1 in. diam., 25 ins. in the ground to bedrock and in a mound of stone to top, with the original post alongside, for $\frac{1}{4}$ sec. cor. with brass cap mkd.

$\frac{1}{4}$
S 11 | S 12
1936

from which

Old bearing trees

A mesquite, 6 ins. diam., bears N. $39\frac{1}{2}^{\circ} E.$, 44 lks. dist.,

Dependent resurvey of subdivisional lines,

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T.16 S., R.17 E.

Chains	marks illegible.						
	A mesquite, 12 ins. diam., bears N. $22\frac{1}{4}^{\circ}$ W., 149 lks, dist., mkd. $\frac{1}{4}$ S.						
	Raise a mound of stone, 3 ft. base, 2 ft. high, W. of cor.						
	N. $0^{\circ} 27' W.$ on a true line bet. secs 11 and 12. Asc. 53 ft. through scattering brush.						
13.90	Spur, slopes SW; desc. 35 ft. over NW slope.						
19.50	Wash, 4 lks. wide, 1 ft. deep, course SW.; asc. 15 ft.						
23.00	Spur, slopes SW.; desc. 20 ft.						
25.90	Gulch, 30 lks. wide, 4 ft. deep, course SW.; asc. 183 ft., over SE slope.						
39.66	The cor. of secs. 1, 2, 11 and 12, which is an iron post, 2 ins. diam., 2 ft. above ground, firmly supported in a mound of stone, marked and witnessed as described in the official record.						
	Land, rolling. Soil, gravelly and stony clay; 3rd. and 4th. rate. No timber; undergrowth, catclaw, mesquite, yucca, ocotillo, cacti and paloverdi.						

	From the cor., of secs. 10, 11, 14 and 15.						
	N. $89^{\circ} 53' E.$ on a random line bet. secs. 11 and 14.						
39.42	A point 4 lks. S. of the $\frac{1}{4}$ sec. cor.						
79.02	A point 14 lks. S. of the cor. of secs. 11, 12, 13 and 14.						
	Return to the cor. of secs. 10, 11, 14 and 15, which is a badly decayed mesquite post in a mound of earth.						
	At point for cor.						
	Set an iron post 3 ft. long, 2 ins. diam., 22 ins. in the ground to bedrock, and in a mound of stone to top, with the original post deposited at the base, for cor. of secs. 10, 11, 14 and 15, with brass cap mkd.						
	<table border="1"> <tr> <td>T 16 S</td> <td>R 17 E</td> </tr> <tr> <td>S 10</td> <td>S 11</td> </tr> <tr> <td>S 15</td> <td>S 14</td> </tr> </table>	T 16 S	R 17 E	S 10	S 11	S 15	S 14
T 16 S	R 17 E						
S 10	S 11						
S 15	S 14						
	1936						
	from which						
	Old bearing tree						
	A mesquite ins. diam., bears S. $83^{\circ} 15' W.$, 21 lks. dist., dimly mkd. XV.						
	No evidence of NW bearing tree.						
	Raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.						
	Thence						
	N. $89^{\circ} 50' E.$ on a true line bet. secs. 11 and 14. Over rolling land, through scattering brush.						
1.70	Wash, 6 lks. wide, 2 ft. deep, course S. $30^{\circ} W.$						
2.80	Road, bears N. $15^{\circ} E.$ and S. $30^{\circ} W.$						
8.10	Enter wash, 3 ft. deep, course S. from N. $30^{\circ} W.$						

Dependent resurvey of subdivisional lines,
T.16 S.,R.17 E.

Chains	
9.30	Leave wash.
10.90	Wash, 20 lks. wide, 3 ft. deep, course SW.
27.60	Wash, 20 lks. wide, 3 ft. deep, course S. 60° W.
39.42	The $\frac{1}{4}$ sec. cor., which is a mound of earth with badly decayed mesquite post, 4 ins. sq., 3 ft. long, lying alongside. At point for cor. in the old mound. Set an iron post, 3 ft. long, 1 in. diam., 28 ins. in the ground, with old post deposited alongside, for $\frac{1}{4}$ sec. cor., with brass cap mkd. <div style="text-align: center;"> $\begin{array}{r} S\ 11 \\ \frac{1}{4} \quad \frac{\quad}{\quad} \\ S\ 14 \end{array}$ </div> 1936 raise a mound of stone, $2\frac{1}{2}$ ft. base, 2 ft. high, N. of cor. N. 89° 44' E. on a true line bet. secs. 11 and 14. Over rolling land, through scattering brush.
2.50	Wash, 8 lks. wide, 3 ft. deep, course SW.; asc. 50 ft. over NW slope.
8.00	Spur, slopes SW.; desc. 12 ft.
12.80	Wash, course S., heads 2 chs. N.; asc. 25 ft.
15.30	Spur, slopes SW.; desc. 45 ft.
20.05	Wash, 10 lks. wide, course S. 30° W.; asc. 32 ft.
23.50	Spur, slopes S. 15° W.; desc. 55 ft.
28.40	Wash 20 lks. wide, 3 ft. deep, course S.; asc. 105 ft.
38.30	Spur, slopes SW.; desc. slightly.
39.60	The cor. of secs. 11, 12, 13 and 14. Land, rolling. Soil, stony and gravelly clay; 3rd. rate. Timber, mesquite, ash, cottonwood, and hackberry along the big washes; undergrowth, mesquite, catclaw, yucca and sotol. ----- From the cor. of secs. 9, 10, 15 and 16. N. 89° 51' E. on a random line bet. secs. 10 and 15.
39.66	A point 2 lks. N. of the $\frac{1}{4}$ sec. cor.
79.36	A point 1 lk. N. of the cor. of secs. 10, 11, 14 and 15. Return to the cor. of secs. 9, 10, 15 and 16, which is a badly decayed mesquite post, 4 ins. sq., 3 ft. above ground, supported in a large mound of stone. At point for cor. Set an iron post, 3 ft. long 2 ins. diam., 14 ins. in the ground to bedrock and in a mound of stone to top, with old mesquite post deposited alongside, for cor. of secs. 9, 10, 15 and 16, with brass cap mkd.

BOOK 1184 Dependent resurvey of subdivisional lines, T.16 S., R.17 E.

Chains	T16S R17E S9 S10 S16 S15 1936
	No evidence of original bearing tree, raise a mound of stone, 3 ft. base, 2 ft. high, W. of cor.
	Thence
	N. 89° 53' E. on a true line bet. secs. 10 and 15. Over rolling land, through scattering brush.
11.10	Wash, 5 lks. wide, 2 ft. deep, course S.
21.05	Wash, 8 lks. wide, 3 ft. deep, course S. 30° E.
22.30	Wash, 25 lks. wide, 4 ft. deep, course SW.
35.05	Wash, 14 lks. wide, 3 ft. deep, course SW.
37.25	A dim road, bears NE and SW.
39.36	Set an iron post, 3 ft. long, 1 in. diam., 28 ins. in the ground, for $\frac{1}{4}$ sec. cor. of sec. 10 only, with brass cap mkdd
	$\frac{1}{4}$ S 10 ----- 1936
	of stone, 2 $\frac{1}{2}$ ft. base, 2 ft. high, N. of cor. raise a mound
39.66	The original $\frac{1}{4}$ sec. cor., which is a badly decayed mesquite post lying on a mound of earth.
	At point for cor. in old mound of earth.
	Set an iron post, 3 ft. long, 1 in. diam., 28 ins. in the ground, with the original post alongside, for $\frac{1}{4}$ sec. cor., of sec. 15 only, with brass cap mkd.
	$\frac{1}{4}$ S 15 ----- 1936
	of stone, 2 $\frac{1}{2}$ ft. base, 2 ft. high, S. of cor. raise a mound o
	N. 89° 50' E. on a true line bet. secs. 10 and 15. Over heavy rolling land, through scattering brush.
17.10	Wash, 6 lks. wide, 2 ft. deep, course S. 30° W.
28.70	Wash, 20 lks. wide, 3 ft. deep, course S. 20° E.
32.20	Wash, 16 lks. wide, 2 ft. deep, course SW.
39.70	The cor. of secs. 10, 11, 14 and 15. Land, rolling. Soil, gravelly and stony; 3rd. rate. Timber, scrub mesquite; undergrowth, mesquite, catclaw, yucca and cacti.

	From the cor. of secs. 8, 9, 16 and 17.
	N. 89° 52' E. on a random line bet. secs. 9 and 16.
40.00	No evidence of original cor. ; set temp. cor.
79.66	A point 70 lks. S. of the cor. of secs. 9, 10, 15 and 16.

Dependent resurvey of subdivisional lines, T.16 S., R.17 E.

Chains

Return to the cor. of secs. 8, 9, 16 and 17, which is a large mound of stone; no evidence of the original post.

At point for cor. in old mound.

Set an iron post, 3 ft. long, 2 ins. diam., 20 ins. in the ground to bedrock and in a mound of stone, 4 ft. base, to top of post, for cor. of secs. 8, 9, 16 and 17, with brass cap mkd.

T 16 S	R 17 E
S 8	S 9
S 17	S 16
1936	

from which

Old bearing tree

A mesquite, 16 ins. diam., bears $S.8\frac{1}{4}^{\circ} W.$, 342 lks dist., dimly marked.

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

Thence

N. $89^{\circ} 22'$ E. on a true line bet. secs. 9 and 16. Over gently rolling land, through scattering brush.

3.60 Draw, drains NE.

9.10 Wash, 20 lks. wide, 3 ft. deep, course N. $30^{\circ} W.$; asc. 50 ft.

18.20 Spur, slopes N.; desc. 46 ft., over NE slope.

23.50 Agua Verde Creek, 1.10 chs. wide, dry, course NW.; 5 chs. up channel to running water.

25.40 An old road, bears N. $60^{\circ} W.$ and S. $60^{\circ} E.$; thence over rolling land.

38.70 Wash, 8 lks. wide, 3 ft. deep, course S. $15^{\circ} W.$

39.83 Proportional distance,

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

S 9
$\frac{1}{4}$
S 16
1936

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

Continue over rolling land.

42.80 Wash, 30 lks. wide, 3 ft. deep, course SW.

48.60 Wash, 30 lks. wide, 3 ft. deep, course SW.

72.50 Wash, 8 lks. wide, 2 ft. deep, course SW.

79.66 The cor. of secs. 9, 10, 15 and 16.

Land, rolling.

Soil, stony clay and sandy loam.

Timber, mesquite and cottonwood along washes; undergrowth, mesquite, greasewood, paloverde, catclaw, ocotillo, yucca and cacti.

BOOK 4144 Dependent resurvey of subdivisional lines, T.16 S., R 17 E.

Chains	From the cor. of secs. 8, 9, 16 and 17. North on a random line bet. secs. 8 and 9.
40.29	A point 30 lks. E. of the $\frac{1}{4}$ sec. cor.
79.47	A point 52 lks. E. of the cor. of secs. 4, 5, 8 and 9. Return to the cor. of secs. 8, 9, 16 and 17. Thence N. $0^{\circ}26'$ W., on true line bet. secs. 8 and 9. Desc. 72 ft., over NW slope, through scattering brush.
5.09	Left bank of Agua Verde Creek, 8 ft. high, bears N. 80° E. and S. 80° W.; across dry bed of creek.
6.89	Leave creek bed; old road parallels creek; asc. 216 ft. over SE slope.
16.79	Swale, drains S. 60° E.; continue ascent.
26.99	Quartzite knob on spur sloping SW.; desc. 70 ft., over NW slope.
31.29	Swale, drains W.; low saddle bears E., 150 lks. dist.; ascend 72 ft.
37.59	Rocky butte; desc. 25 ft. to $\frac{1}{4}$ sec. cor.
40.29	The $\frac{1}{4}$ sec. cor. which is a quartz rock, 12x5x8 ins. above ground and in a small mound of stone, marked $\frac{1}{4}$. At point for cor. Set an iron post, 3 ft. long, 1 in. diam., 24 ins. in the ground to bedrock, and in a mound of stone to top, with the marked stone deposited at the base, for $\frac{1}{4}$ sec. cor., with brass cap mkd. $\begin{array}{c} \frac{1}{4} \\ S\ 8\ \ S\ 9 \\ 1936. \end{array}$ raise a mound of stone, 3 ft. base, 2 ft. high, W. of cor. N. $0^{\circ}19'$ W., on a true line bet. secs. 8 and 9. Desc. 150 ft. over broken N. slope, through scattering brush.
6.38	Wash, 60 lks. wide, 1 ft. deep, course W.; asc. 189 ft. over broken SE slope.
23.58	Rocky spur, slopes E.; desc. 194 ft. over broken NE slope.
35.38	Small draw, drains NE.; continue descent.
38.68	Same draw, from S. 15° E. to N. 30° E.
39.18	The cor. of secs. 4, 5, 8 and 9, which is a mesquite post, 4 ins. sq., 3 ft. above ground, supported in a small mound of stone, and bearing dim scribe marks, illegible. At point for cor. Set an iron post, 3 ft. long, 2 ins. diam., 12 ins. in the ground, over a cross (X) cut in bed rock, and in a mound of stone, 5 ft. base, 2 ft. high, with old post

Dependent resurvey of subdivisional lines, T. 16 S., R. 17 E.

deposited alongside, for cor. secs. 4, 5, 8 and 9, with brass cap mkd.

T16S R17E

S5	S4
----	----

S8	S9
----	----

1936

Land, mountainous.

Soil, gravelly and stony; 3rd and 4th rate.

Timber, a few ash and mesquite, along wash; undergrowth, mesquite, catclaw, ocotillo, paloverde, yucca and cacti.

From the cor of secs. 4, 5, 8 and 9.

North, on a random line bet. secs. 4 and 5.

39.52 A point 2 lks. W. of true point for $\frac{1}{4}$ sec. cor.
69.08 A point 21 lks. E. of the Clos. cor. of secs. 4 and 5.
Return to the cor. of secs. 4, 5, 8 and 9.

Thence

N. 0° 02' E., on true line bet. secs. 4 and 5.

Desc. 60 ft. over NE. slope, through dense brush.

0.40 Wash, 6 lks. wide, 1 ft. deep, course N. 10° W., continue descent over NW. slope.

5.00 Enter wash, 2 ft. deep, course S. 60° W.

8.00 Leave wash; asc. gentle SE. slope.

11.20 Road, bears NE. and SW. to Vail.

13.90 Leave valley; asc. 95 ft. over broken SE. slope.

20.60 Spur, slopes SE.; desc. 20 ft. over NE. slope.

22.80 Wash, 14 lks. wide, 2 ft. deep, course SE.; asc. 75 ft. over SW. slope.

29.20 Spur, slopes SE.; desc. 50 ft.

32.00 Wash, 10 lks. wide, 3 ft. deep, course SE.; asc. 148 ft.

39.00 Spur, slopes SE.

39.52 Point for $\frac{1}{4}$ sec. cor., determined from old bearing trees.

Set an iron post, 3 ft. long, 1 in. diam., 6 ins. in the ground to bedrock and in a mound of stone, 3 ft. base, to top of post, for $\frac{1}{4}$ sec. cor., with brass cap mkd.

$\frac{1}{4}$

S5	S4
----	----

1936

from which

Original bearing trees

A dead mesquite, bears S. 76° E., 63 lks. dist.,

Chains	
	blazed, but no scribe marks.
	A dead paloverde, bears S. 63° W., 70 lks. dist., blazed, but no scribe marks.
	N. 0° 27' W., on true line bet. secs. 4 and 5.
	Over broken E. slope, through dense brush.
5.30	Spur, slopes E., desc. 82 ft. over NE. slope.
9.40	Wash, 6 lks. wide, 2 ft. deep, course S. 75° E.
12.80	Wash, 5 lks. wide, 2 ft. deep, course SE.
14.10	Wash, 10 lks. wide, 4 ft. deep, course SE.; asc. 150 ft.
19.15	Spur, slopes SE.; thence along E. slope.
24.30	Spur, slopes SE.; desc. 163 ft. over NE. slope.
29.56	The closing cor. of secs. 4 and 5; hereinbefore described.
	Land, mountainous. Soil, stony clay and loam; 3rd and 4th rate. Timber, mesquite, hackberry and ash; undergrowth, mesquite, catclaw, ocotillo, yucca and paloverde.

	Resurvey and survey of subdivisional lines, T.16S.,R.17E.
	From the cor. of secs. 10, 11, 14 and 15.
	North, on a random line bet. secs. 10 and 11.
39.76	A point 5 lks. W. of true point for $\frac{1}{4}$ sec. cor.
	As the original survey stopped at this point, I return to the cor. of secs. 10, 11, 14 and 15, hereinbefore described.
	Thence
	N. 0° 04' E., on true line bet. secs. 10 and 11.
	Asc. 130 ft. over gentle SW. slope, through scattering brush.
20.05	Wash, 5 lks. wide, 1 ft. deep, course S. 60° W.; continue ascent.
29.60	A dim road bears N. 15° W. and S. 15° E.
37.40	Spur, slopes S. 15° E.; thence along E. slope.
39.76	Point for $\frac{1}{4}$ sec. cor. determined from original bearing trees.
	Set an iron post, 3 ft. long, 1 in. diam., 28 ins. in the ground, and in a mound of stone to top for $\frac{1}{4}$ sec. cor., with brass cap mkd.

$\frac{1}{4}$
 S10 | S11

1936

from which

Resurvey and survey of subdivisional lines, T. 16 S., R. 17 E.

Chains

Original bearing trees

A mesquite, 6 ins. diam., bears S. 34 $\frac{1}{2}$ ° E., 28 lks. dist., mkd. $\frac{1}{4}$ S.

A dead mesquite, 5 ins. diam., bears S. 23 $\frac{1}{4}$ ° W., 15 lks. dist., bearing illegible scribe marks.

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

Ascend 521 ft. over broken, SE. slope, through dense brush.

51.26 Head of draw, course SE.; continue ascent.

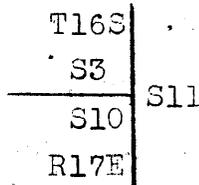
52.96 Spur, slopes SE.; thence over E. slope.

55.86 Wash, near head, course SE.; continue ascent over S. slope.

62.26 Spur, sloping SE.; thence over broken E. slope.

78.32 A point 79.52 chs. due E. of the cor of secs. 3, 4, 9 and 10, hereinafter described.

Set an iron post, 2 ins. diam., 8 ins. in the ground to bedrock, and in a mound of stone, 4 ft. base, to top of post, for cor. of secs. 3 and 10 only, with brass cap mkd.

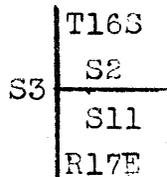


1936

Continue bet. secs. 3 and 11.

80.12 A point N. 89° 50' W. of the $\frac{1}{4}$ sec. cor. bet. secs. 2 and 11, hereinafter described.

Set an iron post, 3 ft. long, 2 ins. diam., 18 ins. in the ground, with a granite stone 8x4x2 ins., mkd. X, deposited at the base, and in a mound of stone, 3 ft. base, 1 $\frac{1}{2}$ ft. high, for cor. secs. 2 and 11 only, with brass cap mkd.



1936

Cor. established on steep E. slope approx. 2 chs. below N. and S. cliffs.

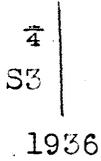
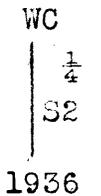
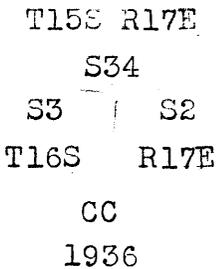
Land, south half mile rolling, balance mountainous. Soil, stony and gravelly; 3rd and 4th rate. Timber, a few mesquite trees near $\frac{1}{4}$ cor.; undergrowth, mesquite, ocotillo, catclaw, yucca, sotol and cacti.

From the cor. of secs. 1, 2, 11 and 12.

Resurvey and survey of subdivisional lines, T. 16 S., R. 17 E.

Chains	West, on a random line bet. secs. 2 and 11.
39.29	A point 11 lks. S. of the $\frac{1}{4}$ sec. cor. As the original survey stopped at this point, I return to the cor. of secs. 1, 2, 11 and 12, hereinbefore described. Thence N. 89° 50' W. on true line bet. secs. 2 and 11. Asc. 35 ft. over SE. slope, through scattering brush.
2.80	Rocky spur, slopes S. 30° W.; desc. 110 ft. over steep W. slope.
7.40	Draw, 4 lks. wide, 1 ft. deep, course S.; asc. 118 ft. over SE. slope.
14.00	Rocky spur, slopes S.; desc. 50 ft. over SW. slope.
24.20	Swale, drains S.; over S. slope.
29.70	Swale, drains S. 30° E.; asc. 40 ft.
33.30	Spur, slopes S.; desc. 25 ft. over SW. slope.
39.29	The $\frac{1}{4}$ sec. cor. which is the decayed remains of a post in a mound of stone. At point for cor. in old mound Set an iron post, 3 ft. long, 1 in. diam., 7 ins. in the ground to bedrock, and in a mound of stone to top, with remains of original post and a granite stone, 6x3x2 ins., mkd. X, deposited at the base, for $\frac{1}{4}$ sec. cor., with brass cap mkd.
	$\frac{1}{4}$ $\frac{S2}{S11}$
	1936
	No evidence of original bearing tree remains.
54.89	Creek, 60 lks. wide, 4 ft. deep, with stream of water 4 lks. wide, 4 ins. deep; asc. 575 ft. over broken E. slope.
57.39	Wash, 6 lks. wide, 2 ft. deep, course S. 75° E.; continue ascent.
78.24	The cor. of secs. 2 and 11. Land, mountainous. Soil, stony; 4th rate. Timber, a few mesquite, cottonwood and hackberry along creek; undergrowth, ocotillo, mesquite, catclaw, sotol, yucca, cacti and paloverde.
	----- Subdivision of T. 16 S., R. 17 E.
	North, bet. secs. 2 and 3. Asc. 180 ft. over broken SE. slope, through scattering brush.
8.70	Top 60 ft. cliff, bearing N. 10° E. and S. 10° W.;

Subdivision of T. 16 S., R. 17 E.

Chains	desc. 40 ft. over NE. slope.
10.40	Swale, drains S. 60° E.; asc. 298 ft. over broken SE. slope.
22.30	Spur, slopes S. 30° W.; thence along W. slope.
31.70	Head of wash, course SW.; asc. 192 ft. over S. slope.
37.60	Ridge, bears N. 60° E. and S. 60° W.; desc. 607 ft. over steep, broken, NW. slope.
38.20	40 chains from the SE. cor. of sec. 3. Set an iron post, 3 ft. long, 1 in. in diam., on bedrock, and in a mound of stone, 4 ft. base, 2½ ft. high, with granite stone 6x3x3 ins., mkd. X, deposited at the base for ¼ sec. cor. sec. 3 only, with brass cap mkd. <div style="text-align: center;">  </div>
	Continue descent.
38.66	Set an iron post, 3 ft. long, 1 in. in diam., 6 ins. in the ground to bedrock and in a mound of stone, 2½ ft. base, 2 ft. high, for witness ¼ sec. cor. sec. 2 only, with brass cap mkd. <div style="text-align: center;">  </div>
	from which
	A bebalania, 5 ins. diam., bears N. 45½° E., 45 lks. dist., mkd. S 2 BT
	Continue descent.
38.69	True point for ¼ sec. cor. sec. 2, determined by proportion from the theoretical distance of the W bdy. of sec. 2, based upon the areas of the E. ½ of said sec., falls on sloping rock surface impracticable to establish <i>cor.</i>
	Continue descent.
56.10	Spur, slopes NW.; continue descent over NE. slope.
67.03	Intersect the N. bdy. of Tp., the 3rd Stan. Par. South. Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the ground to bedrock and in a mound of stone, to top of post, for closing cor. secs. 2 and 3, with brass cap mkd. <div style="text-align: center;">  </div>
	from which

Subdivision of T. 16 S., R. 17 E.

Chains

A white oak, 13 ins. diam., bears S. $12\frac{1}{2}^{\circ}$ E., 324 lks. dist., mkd. T16S R17E S2 CC BT

A white oak, 12 ins. diam., bears S. $32\frac{1}{2}^{\circ}$ W., 140 lks. dist., mkd. T16S R17E S3 CC BT

From point of intersection the stan. cor. secs. 34 and 35, T. 15 S., R. 17 E., hereinbefore described, bears S. $89^{\circ} 49'$ E., 5.57 chs. dist.

Land, mountainous.

Soil, stony; 3rd and 4th rate.

Timber, a few oak trees along N slopes of mountains; undergrowth, mesquite, catclaw, ocotillo, paloverde, yucca, sotol and cacti.

At a point on the 3rd stan. par. south, N. $89^{\circ} 45'$ W., 9.64 chs. from the stan. $\frac{1}{4}$ sec. cor. sec. 35, and 40 chs. in departure from the closing cor. of secs. 1 and 2

Set an iron post, 3 ft. long, 1 in. diam., 10 ins. in the ground to bedrock and in a mound of stone, $3\frac{1}{2}$ ft. base to top of post, for $\frac{1}{4}$ sec. cor. sec. 2, with brass cap mkd.

$\frac{1}{4}$ S2

1936

from which

A mesquite, 5 ins. diam., bears S. $58\frac{1}{2}^{\circ}$ E., 284 lks. dist., mkd. $\frac{1}{4}$ S2 BT

A mesquite, 5 ins. diam., bears S. $49\frac{1}{2}^{\circ}$ W., 182 lks. dist., mkd. $\frac{1}{4}$ S 2 BT

From the cor. of secs. 9, 10, 15. and 16, hereinbefore described

North, on true line bet. secs. 9 and 10.

Desc. 30 ft. over NW. slope, through scattering brush.

2.80 Wash, 10 lks. wide, 2 ft. deep, course S. 75° W.; thence over rolling land.

12.40 Wash, 20 lks. wide, 3 ft. deep, course S. 80° W.

20.80 Wash, 7 lks. wide, 2 ft. deep, course SW.; asc. 144 ft.

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

S9 | S10

1936

raise a mound

of stone, $2\frac{1}{2}$ ft. base, 2 ft. high, west of cor.

Ascend 5 ft. to

41.00 Saddle in spur bearing E. and W.; desc. 30 ft.

Subdivision of T. 16 S., R. 17 E.

Chains

- 45.70 Wash, 8 lks. wide, 3 ft. deep, course S. 75° E.; asc. 324 ft. over SE. slope.
- 69.70 Spur, slopes west, desc. 180 ft. over broken N. slope.
- 78.48 A point 80.20 chs. due E. of the cor. of secs. 4, 5, 8 and 9.
- Set an iron post, 3 ft. long, 2 ins. diam., 16 ins. in the ground to bedrock, and in a mound of stone, 2½ ft. base to top of post, with a 5x5x3 ins. limestone mkd. X, deposited at the base for cor. secs. 3, 4, 9 and 10, with brass cap mkd.
- T16S R17E

S4	S3
S9	S10

 1936
- Land, mountainous.
 Soil, stony; 3rd and 4th rate.
 Timber, a few mesquite and catclaw; undergrowth, palo-verde, ocotillo, mesquite, catclaw, sotol and greasewood.
-
- East, on true line bet. secs. 3 and 10.
- Desc. 15 ft. over NE. slope, through scattering brush.
- 1.90 Draw, drains N. 30° W.; thence over rolling NW. slope.
- 4.05 Desc. 20 ft.
- 8.70 Draw, drains N. 30° W.; asc.
- 15.50 Swale, drains NW.; from S. 15° E.; asc. 75 ft.
- 20.00 Spur, slopes N. 30° W., thence along N. slope; asc. 57 ft.
- 27.40 Ridge, bears NE and SW.; desc. 208 ft. over E. slope.
- 35.30 Small wash, course S.
- 39.76 Set an iron post, 3 ft. long, 1 in. diam., 4 ins. in the ground over a cross (X) in bedrock, and in a mound of stone, 5 ft. base, 2½ ft. high, for ¼ sec. cor., with brass cap mkd.
- | |
|-----|
| S3 |
| ¼ |
| S10 |

 1936
- Cor. established on top of small spur sloping south.
- 42.00 Wash, 6 lks. wide, 1 ft. deep, course S. 15° W.; asc. 50 ft.
- 45.00 Top of ascent; thence along S. slope.
- 57.60 Wash, 10 lks. wide, 3 ft. deep, course S. 60° W., asc. 441 ft. over NW. slope.
- 75.85 Spur, slopes S.; desc. 225 ft. over E. slope, broken by cliffs.
- 79.52 Intersect the cor. of secs. 3 and 10, hereinbefore described.

Subdivision of T. 16 S., R. 17 E.

Chains	
	Land, rolling and mountainous. Soil, sandy, stony loam; 3rd rate. Timber, a few bebalania; undergrowth, ocotillo, paloverde, mesquite, catclaw, yucca, sotol, sage and cacti.

	West, on true line bet. secs. 4 and 9.
	Desc. 227 ft. over broken NW. slope, through scattering brush.
12.75	Wash, 12 lks. wide, 3 ft. deep, course S. 15° W.
13.50	Wash, 8 lks. wide, 2 ft. deep, course SE.; asc. 475 ft. over E. slope.
27.80	Rocky spur, slopes SE.; thence along S. slope.
33.00	Main ridge, bears NE. and SW.; desc. 146 ft. over NW. slope.
40.10	Set an iron post, 3 ft. long, 1 in. diam., 4 ins. in the ground over a cross (X) cut in bedrock, and in a mound of stone 4 ft. base, 2½ ft. high, for ¼ sec. cor., with brass cap mkd.
	$\frac{1}{4} \begin{array}{c} S4 \\ \hline S9 \end{array}$
	1936
	Cor. established on point of limestone rim of steep N. slope.
	Thence along N. slope.
52.20	Spur, slopes N.; desc. 507 ft. over NW. slope.
66.20	Wash, 10 lks. wide, 1 ft. deep, course N. 15° W.; asc. 30 ft.
70.30	Spur, from rocky knob 1.50 chs. NW., slopes SE.; desc. 135 ft. over NW. slope.
80.10	Wash, 1 lk. wide, 18 ins. deep, course N. 10° W.
80.20	The cor. of secs. 4, 5, 8 and 9, hereinbefore described.
	Land, mountainous. Soil, stony; 3rd and 4th rate. Timber, a few bebalania; undergrowth, mesquite, catclaw, paloverde, ocotillo, yucca and cacti.

	From the cor. of secs. 3, 4, 9 and 10.
	North, bet. secs. 3 and 4.
	Desc. 120 ft. over NW. slope, through scattering brush.
3.80	Wash, 6 lks. wide, 1 ft. deep, course NW.; asc. 55 ft. over SW. slope.
8.90	Spur, slopes W.; desc. 36 ft. over NW. slope.
12.30	Wash, 12 lks. wide, 2 ft. deep, course SW.; asc. 158 ft. over SE. slope.
23.20	Ridge, bears N.80°E. and S.80°W.; desc. 319 ft. to

Subdivision of T. 16 S., R. 17 E.

Chains	
	$\frac{1}{4}$ sec. cor.
24.60	A house bears N.28°47'W; property of W. Watkins.
38.30	True point for $\frac{1}{4}$ sec. cor. sec. 4 only, which is 31.00 chs. dist. from the NE. cor. thereof, such distance being the theoretical distance of the N. $\frac{1}{2}$ of the E. bdy. of sec. 4, based upon the areas of the NW. $\frac{1}{4}$ of sec. 4, falls on edge of sloping ledge, impracticable to establish cor.
38.35	Set an iron post, 3 ft. long, 1 in. diam., on bedrock, and in a mound of stone, 4 ft. base, 3 ft. high, with a limestone rock 6x4x3 ins., mkd. X, deposited at the base for witness $\frac{1}{4}$ sec. cor. sec. 4 only, with brass cap mkd. <div style="text-align: center;"> $\frac{1}{4}$ S4 WC 1936 </div>
40.00	Set an iron post, 3 ft. long, 1 in. diam., 24 ins. in the ground to bedrock and in a mound of stone to top of post, for $\frac{1}{4}$ sec. cor. sec. 3 only, with brass cap mkd. <div style="text-align: center;"> $\frac{1}{4}$ S3 1936 </div> <p style="text-align: right;">raise a mound</p> <p>of stone, 2$\frac{1}{2}$ ft. base, 2 ft. high, E. of cor.</p> <p>Desc. 108 ft. over NW. slope.</p>
45.26	Wash, 6 lks. wide, 2 ft. deep, course NW., continue desc.
47.82	W. Watkins house bears N. 81° W.
53.80	Bottom of Mt. Spring Canyon, enter wash, 4 ft. deep, course S. 80° W.
55.10	Leave wash; asc. 114 ft. over broken SE. slope to sec. cor.
55.40	Well and windmill bear east 1.95 chs. dist.
56.10	End of road extending W.
63.95	W. Watkins house bears S. 45° 15' W.
69.30	Intersect the N. bdy. of Tp., the 3rd Stan. Par. South. Set an iron post, 3 ft. long, 2 ins. diam., 6 ins. in the ground, over a cross (X) cut in bedrock, and in a mound of stone, 4 ft. base, 3 ft. high, for closing cor. secs. 3 and 4, with brass cap mkd. <div style="text-align: center;"> T15S R17E S33 S4 S3 T16S R17E CC 1936 </div> <p>From point of intersection, the standard cor. secs. 33 and 34, T. 16 S., R. 17 E., bears N. 89° 55' E., 7.53 chs. dist., hereinbefore described.</p>

Subdivision of T. 16 S., R. 17 E.

Chains

Land, mountainous.
Soil, stony; 3rd and 4th rate.
Timber, mesquite, ash and hackberry along channel in canyon bottom; undergrowth, mesquite, paloverde, catclaw, ocotillo, yucca, cacti and sagebrush.

At a point on the 3rd stan. par. south, N. $89^{\circ} 45'$ W., 7.76 chs. from the stan. $\frac{1}{4}$ sec. cor. sec. 34, T. 15 S., R. 17 E., and 40 chs. in departure from the closing cor. of secs. 2 and 3, set an iron post, 3 ft. long, 1 in. diam., 28 ins. in the ground, with a granite stone 4x4x2 ins., mkd. X, deposited at the base for $\frac{1}{4}$ sec. cor. sec. 3, with brass cap mkd.

$\frac{1}{4}$ S3

1936

raise a mound
of stone, 3 ft. base, 2 ft. high, S. of cor.

At a point on the 3rd stan. par. south, S. $89^{\circ} 50'$ W., 9.60 chs. from the stan. $\frac{1}{4}$ sec. cor. sec. 33, T. 15 S., R. 17 E., and 40 chs. in departure from the closing cor. of secs. 4 and 5, set an iron post, 3 ft. long, 1 in. diam., 28 ins. in the ground, for $\frac{1}{4}$ sec. cor. sec. 4, with brass cap mkd.

$\frac{1}{4}$ S4

1936

from which

A belalania, $4\frac{1}{2}$ ins. diam., bears S. $75\frac{1}{2}^{\circ}$ E.,
167 lks. dist., mkd. $\frac{1}{4}$ S 4 BT

A paloverde, 5 ins. diam., bears S. $82\frac{3}{4}^{\circ}$ W.,
152 lks. dist., mkd. $\frac{1}{4}$ S 4 BT

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

Final Test of Solar Attachment

April 21: At camp in the NE $\frac{1}{4}$ sec. 6, at 8:00 a.m. app. t., I set off $32^{\circ} 04'$ N., on the lat. arc, $11^{\circ} 57'$ N. on the decl. arc, and orient the instrument with the solar, the line of sight agrees with the meridian established by Polaris observation.

At 4.00 p.m. app. t. with the lat. arc. unchanged, I set off $12^{\circ} 04'$ N. on the decl. arc, and repeat the test of the solar; the line of sight agrees with the meridian established by Polaris observation.

Subdivision of T. 16 S., R. 17 E.

General Description

The general elevation is about 4800 feet above sea level. The land is rolling to rough mountainous in limestone and granite formation. Soil mostly rocky and 4th rate, with some sandy soil in secs. 10 and 11. Water is very scarce, there being a very limited supply through seeps and intermittent streams. Timber is confined mostly to those portions along the canyon beds and consists of mesquite, oak, hackberry, ash, sycamore and cottonwood. Scattering juniper and palo-verde are found on the mountainous portion. The undergrowth is scattering and consists of catclaw, greasewood, sotol and ocotillo. A limited amount of grazing for stock is found over the entire area surveyed. There is considerable evidence of prospecting for minerals in past years, but no evidence of paying mines.

CERTIFICATE OF ~~UNITED STATES~~ SURVEYOR

I, Horace M. Muscott, Public Land Surveyor, General Land Office, HEREBY CERTIFY upon honor that, in pursuance of special instructions bearing date of the 3rd day of October, 1934 received from the district cadastral engineer for Arizona, with assignment instructions dated February 4, 1936, I have dependently resurveyed the Third Standard Parallel South, along the South boundary of Township 15 South, through a portion of Range 17 East; a part of the subdivisonal lines of Township 16 South, Range 17 East; and surveyed a part of the subdivisonal lines, completing the subdivision of Township 16 South, Range 17 East,

River of the Gila and Salt 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 resurvey and 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.

Glendale, California,
January 5, 1938.

Horace M. Muscott
Public Land Surveyor
General Land Office.

CERTIFICATE OF APPROVAL

OFFICE OF SUPERVISOR OF SURVEYS,

Denver, Colorado, May 13, 1938.

The foregoing field notes of the dependent resurvey of the Third Standard Parallel South, along the South boundary of Township 15 South, through a portion of Range 17 East; a part of the subdivisonal lines of Township 16 South, Range 17 East; and the survey of a part of the subdivisonal lines, completing the subdivision of Township 16 South, Range 17 East, of the Gila and Salt River Meridian, in the State of Arizona, executed by Horace M. Muscott, Public Land Surveyor, General Land Office, under special instructions dated October 3, 1934, and assignment instructions dated February 4, 1936, having been critically examined, and the necessary corrections made prior to their certification by the engineer, the said field notes, and the resurvey and survey therein described, are hereby approved.

William H. Brown
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.