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(September 1948)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

BOOK 4512

FIELD NOTES

of the

Survey of the South Boundary of T. 39 N., R. 15 W., and

the West boundary and a portion of the Subdivision of.

T. 38 N., R. 15 W.

Of the Gila and Salt River Meridian,

In the State of Arizona

EXECUTED BY

George M. Boofer Cartographer, Cadastral

Under special instructions dated September 22, 1954, which provided
for the surveys included under Group No. 295, approved September 27, 1954
and assignment instructions dated November 8, 1955.

Survey commenced December 7, 1955
Survey completed February 3, 1956

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BOOK 4512

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Township 38 N., Range 15 W.

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T. 38 N., R. 15 W.

Chains

The east boundary of the township was surveyed by K. L. Siebecker in 1929 and 1930. The south boundary was concurrently surveyed in this group and is recorded in the field notes for T. 37 N., R. 15 W.

The following field notes are those of the north and west boundaries and a portion of the subdivision of T. 38 N., R. 15 W.

For the tests of the instruments and the methods employed, refer to the field notes for T. 35 N., R. 15 W.

The geographic position of the southeast corner of the township is latitude $36^{\circ}38'40.441''$ N., longitude $113^{\circ}50'57.873''$ W. as determined by calculations from township plat of T. 37 N., R. 15 W. The magnetic declination for the township is $16\frac{1}{2}^{\circ}$ E.

Survey of the South Boundary of T. 39 N., R. 15 W.

It is evident from the latitudinal position of the cor. of Ts. 38 and 39 N., Rs. 14 and 15 W., and the cor. of Ts. 38 and 39 N., Rs. 15 and 16 W., that the line between Ts. 38 and 39 N., R. 15 W., if surveyed by the random and true line method, would deviate more than 14' from a cardinal direction and not form a proper basis for subdivision. Therefore, I survey this line West from the cor. of Ts. 38 and 39 N., Rs. 14 and 15 W., to an intersection with the east boundary of T. 39 N., R. 16 W.

Beginning at the cor. of Ts. 38 and 39 N., Rs. 14 and 15 W., which is monumented by an iron post, 3 ins. diam., set, marked, and witnessed as described in the official record.

West, between secs. 1 and 36.

Over mountainous land, through dense growth of timber and medium undergrowth.

Asc. 185 ft. over steep, rocky E. slope.

8.45 Ridge point, bears N. and S.; thence over high mesa land.

17.90 Point of descent; desc. 220 ft. over moderate W. slope.

40.00 Point for the $\frac{1}{4}$ sec. cor. of secs. 1 and 36.

Set an iron post, 30 ins. long, $2\frac{1}{2}$ ins. diam.; 10 ins. in the ground to bedrock, and in a mound of stone to top, with brass cap marked

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

1955

from which

A cedar, 14 ins. diam., bears S. 51° W., 57 lks. dist., marked $\frac{1}{4}$ S1 BT.

A cedar, 10 ins. diam., bears N. 55° E., 29 lks. dist., marked $\frac{1}{4}$ S36 BT.

41.00 W. rim of mesa; desc. 315 ft. over steep W. slope.

South Boundary, T. 39 N., R. 15 W.

Chains

- 51.30 Cottonwood Canyon Wash, 50 lks. wide, 10 ft. deep, drains S.; thence across dry bottom of canyon.
- 60.60 Base of ascent; asc. 320 ft. over steep rocky E. slope.
- 68.55 Top of high mesa rim.
- 80.00 Point for the cor. of secs. 1, 2, 35, and 36.

Set an iron post, 30 ins. long, 2½ ins. diam., 8 ins. in the ground to bedrock, and in a mound of stone to top, with brass cap marked

T39N R15W
S35 | S36
S2 | S1
T38N
1955

from which

A cedar, 8 ins. diam., bears N. 58°45' E., 30 lks. dist., marked T39N R15W S36 BT.

A cedar, 10 ins. diam., bears S. 89° 45' W., 3 lks. dist., marked T38N R15W S2 BT.

Land, rolling.

Soil, shallow loam and rocky.

Timber, cedar, pinon.

Undergrowth, black brush, creosote, sagebrush, and sweet balsa.

West, bet. secs. 2 and 35.

Over heavily rolling land, through dense cedars and scattered undergrowth.

- 31.95 Desc. 215 ft. over moderate W. slope.

- 39.70 E. rim of canyon, desc. 245 ft. over steep W. slope.

- 40.00 Point for the ¼ sec. cor. of secs. 2 and 35.

Set an iron post, 30 ins. long, 2½ ins. diam., 20 ins. in the ground, with brass cap marked

¼ S 35
S 2
1955

from which

A pinon, 10 ins. diam., bears N. 29° W., 64 lks. dist., marked ¼ S35 BT.

Continue descending 195 ft. over rocky W. slope.

- 49.90 Wash, in bottom of canyon, 20 lks. wide, 5 ft. deep, drains SW.; thence across dry bottom of canyon.

- 53.10 Base of ascent; asc. 415 ft. over steep rocky E. slope.

- 74.75 Top of ridge, bears N. and S., also shallow wash, 15 lks. wide, 2 ft. deep, drains SW.

South Boundary, T. 39 N., R. 15 W.

Chains

80.00

Point for the cor. of secs. 2, 3, 34, and 35.

Set an iron post, 30 ins. long, 2½ ins. diam., 6 ins. in the ground to bedrock, and in a mound of stone to top, with brass cap marked

T39N R15W

S34 | S35

S3 | S2

T38N

1955

Land, rolling.

Soil, shallow loam and rocky.

Timber, cedar and pinon.

Undergrowth, black brush, sagebrush, sweet balsa, and some grass.

West, bet. secs. 3 and 34.

Over rolling land, through dense timber and scattered undergrowth.

Thence

By triangulation; desc. 835 ft. over vertical W. slope.

40.00

Point for the ¼ sec. cor. of secs. 3 and 34.

Set an iron post, 30 ins. long, 2½ ins. diam., 14 ins. in the ground, with brass cap marked

¼ S 34
S 3

1955

raise a mound of stone, 3 ft. base, 2½ ft. high, N. of cor.

41.20

Track road, bears N. 25° W. and S. 25° E., through canyon; asc. 440 ft. over steep bare E. slope.

58.35

Main ridge, bears N. 10° E. and S. 10° W.; desc. 490 ft. over steep W. slope.

78.20

Wash, 25 lks. wide, 10 ft. deep, drains SW.

80.00

Point for the cor. of secs. 3, 4, 33, and 34.

Set an iron post, 30 ins. long, 2½ ins. diam., 16 ins. in the ground, with brass cap marked

T39N R15W

S33 | S34

S4 | S3

T38N

1955

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

Land, rolling.

Soil, gravelly and rocky.

Timber, cedar and scrub oak.

Undergrowth, black brush, sagebrush and apple brush.

South Boundary, T. 39 N., R. 15 W.

Chains

West, bet. secs. 4 and 33.

Over rolling land, through very scattered timber and undergrowth.

0.50 Wash, 20 lks. wide, 5 ft. deep, drains SSE.

3.50 Wash, 20 lks. wide, 4 ft. deep, drains ESE.; continue ascending 125 ft. over E. slope.

40.00 Point for the $\frac{1}{4}$ sec. cor. of secs. 4 and 33.

Set an iron post, 30 ins. long, 2½ ins. diam., 6 ins. in the ground to bedrock, and in a mound of stone to top, with brass cap marked

$\frac{1}{4}$ $\frac{S\ 33}{S\ 4}$
1955

Continue ascending 65 ft. over bare E. slope.

42.15 Extreme W. point on Virgin Mountains; thence by triangulation and traverse desc. 1010 ft. over vertical W. slope.

80.00 True point for the cor. of secs. 4, 5, 32, and 33 falls on a precipitous cliff, impracticable to set cor.

Land, mountainous.
Soil, rocky with ledge rocky.
Timber, pinon, oak, and cedar.
Undergrowth, black brush, sagebrush, and catclaw.

West, bet. secs. 5 and 32.

Over mountainous land, through scattered timber and undergrowth.

3.40 Point selected for the witness cor. of secs. 4, 5, 32, and 33.

Set an iron post, 30 ins. long, 2½ ins. diam., on an outcropping, at base of cliff, in a mound of stone to top, with brass cap marked

T39N R15W
W|C
S32|S33
S5 | S4
T38N
1955

Desc. 657 ft. over steep rocky. W. slope.

40.00 Point for the $\frac{1}{4}$ sec. cor. of secs. 5 and 32.

Set an iron post, 30 ins. long, 2½ ins. diam., 20 ins. in the ground, with brass cap marked

$\frac{1}{4}$ $\frac{S\ 32}{S\ 5}$
1955

raise a mound of stone, 3 ft. base, 2½ ft. high, N. of cor.

South Boundary, T. 39 N., R. 15 W.

Chains

Desc. 140 ft. over W. slope.
 53.95 Wash, 2 chs. wide, 3 ft. deep, drains SW.
 80.00 Point for the cor. of secs. 5, 6, 31, and 32.
 Set an iron post, 30 ins. long, 2½ ins. diam., 8 ins. in the ground to bedrock, and in a mound of stone to top, with brass cap marked

T39N R15W
 S31 | S32
 S6 | S5
 T38N
 1955

Land, rolling.
 Soil, shallow sand and rocky.
 Timber, pinon and scrub oak.
 Undergrowth, black brush, sagebrush and catclaw.

West, bet. secs. 6 and 31.

Over rolling land, through scattered timber and undergrowth.

Desc. 270 ft. over moderate W. slope.

30.05 Wash, 10 lks. wide, 4 ft. deep, drains SW.

35.70 Base of ascent; asc. 45 ft. over SE. slope.

39.20 Spur, slopes S.; desc. 40 ft. over SW. slope.

40.00 Point for the ¼ sec. cor. of secs. 6 and 31.

Set an iron post, 30 ins. long, 2½ ins. diam., 24 ins. in the ground, with brass cap marked

¼ $\frac{S\ 31}{S\ 6}$
 1955

raise a mound of stone, 3 ft. base, 2½ ft. high, N. of cor.

47.95 Point of descent; desc. 170 ft. over W. slope.

62.65 Wash, 15 lks. wide, 8 ft. deep, drains NW.; asc. 375 ft. over NE. slope of the N. end of rocky spur.

74.60 Spur, slopes NW.; desc. 155 ft. over W. slope.

80.00 Point for the 1/16 sec. cor. of sec. 31, T. 39 N., R. 15 W.

Set an iron post, 30 ins. long, 2½ ins. diam., 6 ins. in the ground to bedrock, and in a mound of stone to top, with brass cap marked

1 / 16 $\frac{S\ 31}{80}$
 1955

80.46 Point for the closing cor. of secs. 1 and 6, hereinafter described.

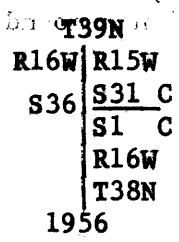
South Boundary, T. 39 N., R. 15 W.

Chains

102.45

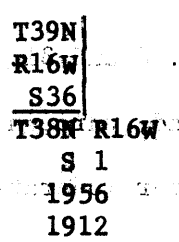
Intersect E. bdy. of sec. 36, T. 39 N., R. 16 W., also point for the closing cor. of sec. 31, T. 39 N., R. 15 W., and sec. 1, T. 38 N., R. 16 W.

Set an iron post, 30 ins. long, 2 1/2 ins. diam., on outcropping, and in a mound of stone to top, with brass cap marked



From this point, the cor. of Ts. 38 and 39 N., Rs. 15 and 16 W., bears S. 14.27 chs. dist., an iron post, 3 ins. diam., set, marked and witnessed as described in the official record.

That cor. now functions for T. 39 N., R. 16 W., only. I remark the monument to read



Land, rolling.
Soil, shallow loam and rocky.
Timber, None.
Undergrowth, greasewood, catclaw, sage and grass.

Survey of the West Boundary of T. 38 N., R. 15 W.

Beginning at the cor. of Ts. 37 and 38 N., Rs. 15 and 16 W., a 2 1/2 in. iron post, previously described in this group, in the field notes for T. 37 N., R. 15 W.

North, bet. secs. 31 and 36, along the west bdy. of T. 38 N., R. 15 W.

Over rolling to mesa land, through scattered timber and undergrowth.

Asc. 145 ft. over S. slope.

7.60

Spur, slopes SE.

20.55

Wash, 10 lks. wide, 15 ft. deep, drains E.; asc. 30 ft. over gentle S. slope.

33.30

Small spur, slopes SE.; desc. 35 ft. over N. slope.

35.20

Wash, 5 lks. wide, 3 ft. deep, drains E.

40.00

Point for the 1/4 sec. cor. of secs. 31 and 36.

Set an iron post, 30 ins. long, 2 1/2 ins. diam., 12 ins. in the ground to bedrock, and in a mound of stone to top, with brass cap marked

The West Boundary, T. 38 N., R. 15 W.

Chains

1/2	S36	S31
	1955	

44.10 Wash, 5 lks. wide, 5 ft. deep, drains E.

60.25 Wash, 15 lks. wide, 20 ft. deep, drains E.; thence over gently rolling land, sloping gradually to E.

80.00 Point for the cor. of secs. 25, 30, 31, and 36.

Set an iron post, 30 ins. long, 2½ ins. diam., 20 ins. in the ground, with brass cap marked

T38N	
R16W	R15W
S25	S30
S36	S31
1955	

raise a mound of stone, 3 ft. base, 2½ ft. high, W. of cor.

Land, rolling to mesa.

Soil, sandy and shallow loam.

Timber, scrub oak, pinon and cedar.

Undergrowth, black brush, sagebrush, apple brush, Brigham tea, cacti, and grass.

North, bet. secs. 25 and 30.

Over mesa to rolling land, through scattered timber and undergrowth.

16.80 Track road, bears N. 40° W. and S. 40° E.

22.30 Wash, 50 lks. wide, 10 ft. deep, drains E. to SE.

40.00 Point for the ¼ sec. cor. of secs. 25 and 30.

Set an iron post, 30 ins. long, 2½ ins. diam., 15 ins. in the ground, and in a mound of stone to top, with brass cap marked

1/4	S25	S30
	1955	

49.00 Wash, 15 lks. wide, 6 ft. deep, drains E.

63.50 Wash, 10 lks. wide, 4 ft. deep, drains ESE.; thence over gently rolling land, sloping gradually to E.

80.00 Point for the cor. of secs. 19, 24, 25, and 30.

Set an iron post, 30 ins. long, 2½ ins. diam., 6 ins. in the ground to bedrock, and in a mound of stone to top, with brass cap marked

T38N	
R16W	R15W
S24	S19
S25	S30
1955	

West Boundary, T. 38 N., R. 15 W.

Chains	<p>Land, gently rolling to mesa. Soil, sandy and gravelly. Timber, pinon and cedar Undergrowth, black brush, sagebrush, creosote, and cacti.</p>															
<p>13.00 27.30 40.00</p>	<p>North, bet. secs. 19 and 24. Over mesa to gently rolling land, through scattered timber and undergrowth. Wash, 150 lks. wide, 25 ft. deep, drains SE. Track road, bears N. 35° E. and S. 35° W. Point for the ¼ sec. cor. of secs. 19 and 24. Set an iron post, 30 ins. long, 2½ ins. diam., 20 ins. in the ground, with brass cap marked <div style="text-align: center;"> <table border="0"> <tr> <td></td> <td>¼</td> <td></td> </tr> <tr> <td>S24</td> <td> </td> <td>S19°</td> </tr> <tr> <td></td> <td></td> <td>1955</td> </tr> </table> </div> <p>raise a mound of stone, 3 ft. base, 2 ft. high, N. of cor. Asc. 135 ft. over gradual S. slope.</p> </p>		¼		S24		S19°			1955						
	¼															
S24		S19°														
		1955														
<p>64.90 80.00</p>	<p>Base of steep ascent; asc. 195 ft. over SE. slope. Point for the cor. of secs. 13, 18, 19 and 24. Set an iron post, 30 ins. long, 2½ ins. diam., 6 ins. in the ground to bedrock, and in a mound of stone to top, with brass cap marked <div style="text-align: center;"> <table border="0"> <tr> <td colspan="3">T38N</td> </tr> <tr> <td>R16W</td> <td> </td> <td>R15W</td> </tr> <tr> <td>S13</td> <td> </td> <td>S18</td> </tr> <tr> <td>S24</td> <td> </td> <td>S19</td> </tr> <tr> <td colspan="3">1955</td> </tr> </table> </div> </p>	T38N			R16W		R15W	S13		S18	S24		S19	1955		
T38N																
R16W		R15W														
S13		S18														
S24		S19														
1955																
<p>18.40 27.35 40.00</p>	<p>Land, rolling. Soil, gravelly and rocky. Timber, none. Undergrowth, black brush, sagebrush, creosote and cacti. <p>North, bet. secs. 13 and 18. Over rolling land, through scattered undergrowth. Continue ascending 265 ft. over SW. slope. Top of ascent; desc. 95 ft. over NW. slope. Wash, 35 lks. wide, 6 ft. deep, drains SSW.; out of ridge; asc. 175 ft. over SE. slope. Point for the ¼ sec. cor. of secs. 13 and 18.</p> </p>															

West Boundary, T. 38 N., R. 15 W.

Chains

Set an iron post, 30 ins. long, 2½ ins. diam., 20 ins. in the ground, with brass cap marked

$\frac{1}{4}$
 S13 | S18
 1955

The cor. falls on the SE. slope of a bare ridge.

Continue ascending 175 ft. over SE. slope.

47.55 Bare ridge, bears N. 35° E. and S. 35° W.; desc. 35 ft. over NW. slope.

50.55 Small draw, drains WSW.; asc. 55 ft. over SE. slope of Virgin Mountains.

62.55 Main mountain top, bears N. 20° E. and S. 20° W.; thence by triangulation desc. 1185 ft. over vertical NW. slope.

80.00 True point for the cor. of secs. 7, 12, 13, and 18 falls on vertical cliff impracticable to set cor.

Land, mountainous.

Soil, rocky.

Timber, scrub oak and pinon.

Undergrowth, black brush, sagebrush, and cacti.

North, bet. secs. 7 and 12.

Over mountainous land, through scattered timber and undergrowth.

5.90 Point for the witness cor. of secs. 7, 12, 13, and 18.

Set an iron post, 30 ins. long, 2½ ins. diam., on an outcropping at base of vertical cliff, and in a mound of stone to top, with brass cap marked

T38N
 R16W | R15W
 W | C
 S12 | S7
 S13 | S18
 1955

Continue descending 215 ft. over NW. slope.

25.90 Wash, 25 lks. wide, 10 ft. deep, drains W. out of mountains.

40.00 Point for the ¼ sec. cor. of secs. 7 and 12.

Set an iron post, 30 ins. long, 2½ ins. diam., 10 ins. in the ground to bedrock, and in a mound of stone to top, with brass cap marked

$\frac{1}{4}$
 S7 | S12
 1955

raise a mound of stone, 3 ft. base, 2½ ft. high, N. of cor.

West Boundary, T. 38 N., R. 15 W.

Chains

Continue descending 300 ft. over rolling NW. slope.

55.70 Base of ascent; asc. 30 ft. over SW. slope.

58.35 Spur, slopes W.; desc. 260 ft. over NW. slope.

73.70 Wash, 1 ch. wide, 8 ft. deep, drains W.; asc. 100 ft. over SE. slope.

80.00 Point for the cor. of secs. 1, 6, 7, and 12.

Set an iron post, 30 ins. long, 2½ ins. diam., 22 ins. in the ground, with brass cap marked

T38N	
R16W	R15W
S1	S6
S12	S7
1955	

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

Land, rolling.
Soil, shallow sandy loam and rocky.
Timber, cedar and pinon.
Undergrowth, black brush, catclaw and cacti.

North, bet. secs. 1 and 6.

Over rolling land, through very scattered timber and undergrowth.

3.60 Spur, slopes NW.; desc. 155 ft. over NE. slope.

24.45 Old mine road, bears E. and W.; continue descending 60 ft. over NW. slope.

40.00 Point for the ¼ sec. cor. of secs. 1 and 6.

Set an iron post, 30 ins. long, 2½ ins. diam., 22 ins. firmly in the ground, with brass cap marked

¼	
S1	S6
1955	

raise a mound of stone, 3 ft. base, 2½ ft. high, W. of cor.

Cor. falls in a small draw, course W.; asc. 115 ft. over S. slope.

49.85 Ridge, bears N. 45° E. and S. 45° W.; desc. 360 ft. over NW. slope.

82.80 Intersect the south bdy. of T. 39 N., R. 15 W.

Point for the closing cor. of Ts. 38 N., Rs. 15 and 16 W.

Set an iron post, 30 ins. long, 2½ ins. diam., 18 ins. in the ground, with brass cap marked

West Boundary, T. 38 N., R. 15 W.

Chains

T39N R15W
 S31
 S32
 S156
 R16W R15W
 T38N
 1955

From point of intersection, the 1/16 sec. cor. at 80 chs., on south bdy. of sec. 31, T. 39 N., R. 15 W., bears E., 46 lks. dist.

Land, rolling.
 Soil, shallow sandy loam, with numerous rocky outcrops.
 Timber, cedar and pinon.
 Undergrowth, black brush, greasewood, sagebrush, and catclaw.

Survey of a Portion of the Subdivision, T. 38 N., R. 15 W.

Beginning at the cor. of secs. 3, 4, 33, and 34, on the south bdy. of T. 38 N., R. 15 W., an iron post, described in the field notes for T. 37 N., R. 15 W.

N. 0° 02' W., bet. secs. 33 and 34.
 Over rolling land, through very scattered timber and undergrowth.

Asc. 25 ft. over gradual SE. slope.

15.00 Top of ascent, bears NE. and SW.; thence over nearly level land.

30.00 Desc. 60 ft. over NW. slope.

40.00 Point for the 1/4 sec. cor. of secs. 33 and 34.

Set an iron post, 30 ins. long, 2 1/2 ins. diam., 18 ins. firmly in the ground, with brass cap marked

S33 | S34
 1955

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

Continue descending over NW. slope.

59.45 Wash, 10 lks. wide, 3 ft. deep, drains SW. out of ridge.

60.85 Base of ascent; asc. 95 ft. over SE. slope.

70.45 Point of spur, slopes SW.; desc. 85 ft. over NW. slope.

80.00 Point for the cor. of secs. 27, 28, 33, and 34.

Set an iron post, 30 ins. long, 2 1/2 ins. diam., 10 ins. in the ground to bedrock, and in a mound of stone to top, with brass cap marked

T38N R15W
 S28 | S27
 S33 | S34
 1955

Cor. falls on the NW. slope of canyon.

Subdivision of T. 38 N., R. 15 W.

Chains	Land, rolling. Soil, gravelly and rocky. Timber, cedar and pignon. Undergrowth, black brush, catclaw, sagebrush, and cacti.
7.30	N. 0° 02' W., bet. secs. 27 and 28. Over rolling land, through scattered timber and undergrowth. Continue descending 65 ft. over NW. slope. Cottonwood Canyon Wash, 10 lks. wide, 3 ft. deep, drains SW.
7.70	Cain Springs road, bears N. 50° E. and S. 50° W.; thence across dry bottom of canyon.
26.50	Fence, 4 strand barbed, bears E. and W.
35.60	Wash, 15 lks. wide, 4 ft. deep, drains E.; thence across E. slope of ridge.
40.00	Point for the ¼ sec. cor. of secs. 27 and 28. Set an iron post, 30 ins. long, 2½ ins. diam., 18 ins. in the ground, with brass cap marked S28 S27 1955 raise a mound of stone, 2 ft. base, 2 ft. high, N. of cor. from which A cedar, 14 ins. diam., bears S. 70° W., 38 lks. dist., marked ¼ S28 BT. A cedar, 16 ins. diam., bears S. 86° E., 74 lks. dist., marked ¼ S27 BT.
48.50	Wash, 5 lks. wide, 3 ft. deep, drains SE.; asc. 75 ft. over SE. slope.
51.95	Small spur, slopes E.; continue ascent of 75 ft. over E. slope.
57.10	Wash, 10 lks. wide, 2 ft. deep, drains E.
65.05	Wash, 65 lks. wide, 2 ft. deep, drains E.
69.29	Small wash, drains ESE.
80.00	Point for the cor. of secs. 21, 22, 27, and 28. Set an iron post, 30 ins. long, 2½ ins. diam., 15 ins. in the ground, and in a mound of stone, with brass cap marked T38N R15W S21 S22 S28 S27 1955 raise a mound of stone, 3 ft. base, 2½ ft. high, N. of cor. from which A cedar, 12 ins. diam., bears S. 21¼° W., 24 lks. dist., marked T28N R15W S28 BT.

Subdivision, T. 38 N., R. 15 W.

Chains

Land, mesa to rolling.
Soil, shallow loam and gravelly.
Timber, cedar and pinon.
Undergrowth, black brush, sagebrush, and catclaw.

N. 0° 02' W., bet. secs. 21 and 22.

Over mesa land, through scattered timber and medium undergrowth.

40.00

Point for the $\frac{1}{4}$ sec. cor. of secs. 21 and 22.

Set an iron post, 30 ins. long, 2½ ins. diam., 24 ins. in the ground, with brass cap marked

S21 | S22
1955

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

from which

A cedar, 18 ins. diam., bears N. 52° W., 17 lks. dist., marked $\frac{1}{4}$ S21 BT.A cedar, 8 ins. diam., bears N. 43° E., 52 lks. dist., marked $\frac{1}{4}$ S22 BT.

40.40

Main road, bears NNW. and SSE.

45.95

Cottonwood Canyon Wash, 15 lks. wide, 6 ft. deep, drains SE.

70.00

Wash, 1 ch. wide, 15 ft. deep, drains SW.; asc. 20 ft. over SW. slope.

80.00

Point for the cor. of secs. 15, 16, 21, and 22.

Set an iron post, 30 ins. long, 2½ ins. diam., 8 ins. in the ground to bedrock, and in a mound of stone to cap, with brass cap marked

T38N R15W
S16 | S15
S21 | S22
1955

No bearing trees available.

Land, mesa to gently rolling.

Soil, shallow loam and gravelly.

Timber, cedar.

Undergrowth, black brush, sagebrush, sweet balsa and creosote brush.

N. 0° 02' W., bet. secs. 15 and 16.

Over rolling land, through very scattered timber and medium undergrowth.

Asc. 475 ft. over steep SW. slope.

Subdivision, T. 38 N., R. 15 W.

Chains

22.55 Ridge point, bears E. and W.; thence across high mesa.

40.00 Point for the 1/4 sec. cor. of secs. 15 and 16.

Set an iron post, 30 ins. long, 2 1/2 ins. diam., 10 ins. in the ground to bedrock, and in a mound of stone to top, with brass cap marked

S16 | S15
1955

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

A cedar, 20 ins. diam., bears S. 57° E., 91 lks. dist., marked 1/4 S15 BT.

A pinon, 11 ins. diam., bears S. 38° W., 1.18 chs. dist., marked 1/4 S16 BT.

Continue across top of mesa.

43.40 S. rim of canyon; desc. 485 ft. over steep NW. slope.

70.30 Cottonwood Canyon Wash, 1 ch. wide, 6 ft. deep, drains SW.

74.10 Canyon bottom, bears NNE. and SSW.; asc. 50 ft. over gradual SE. slope.

75.10 Cottonwood Canyon road, bears SSW. and NNE.

80.00 Point for the cor. of secs. 9, 10, 15, and 16.

Set an iron post, 30 ins. long, 2 1/2 ins. diam., 18 ins. in the ground, with brass cap marked

T38N R15W
S9 | S10
S16 | S15
1955

raise a mound of stone, 3 ft. base, 2 1/2 ft. high, W. of cor.

from which

A cedar, 10 ins. diam., bears S. 20 1/2° W., 35 lks. dist., marked T38N R15W S16 BT.

Land, rolling.

Soil, light sandy and rocky.

Timber, cedar and scrub oak.

Undergrowth, black brush, catclaw, sweet balsa and creosote brush.

N. 0° 02' W., bet. secs. 9 and 10.

Over rolling land, through scattered timber and undergrowth.

Continue ascending 335 ft. over moderate SE. slope.

8.60 Fence, 4 strand barbed, bears E. and W.

Subdivision, T. 38 N., R. 15 W.

Chains

32.40 E. point of spur, slopes NE.; desc. 355 ft. over NW. slope.

40.00 Point for the $\frac{1}{4}$ sec. cor. of secs. 9 and 10.

Set an iron post, 30 ins. long, $2\frac{1}{2}$ ins. diam., 20 ins. in the ground, with brass cap marked

$\frac{1}{4}$
S9 | S10
1955

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

from which

A pinon, 14 ins. diam., bears N. 88° E., 105 lks. dist., marked $\frac{1}{4}$ S10 BT.

A pinon, 8 ins. diam., bears S. $87\frac{1}{2}^\circ$ W., 53 lks. dist., marked $\frac{1}{4}$ S9 BT.

44.80 Wash, 10 lks. wide, 12 ft. deep, drains NW.

55.90 Wash, 30 lks. wide, 6 ft. deep, drains SW.; thence over gently rolling land.

78.50 Base of ascent; asc. 50 ft. over gradual SW. slope.

80.00 Point for the cor. of secs. 3, 4, 9, and 10.

Set an iron post, 30 ins. long, $2\frac{1}{2}$ ins. diam., 18 ins. in the ground, with brass cap marked

T38N R15W
S4 | S3
S9 | S10
1955

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

No bearing trees available.

Land, rolling.

Soil, sandy and gravelly.

Timber, pinon and cedar.

Undergrowth, black brush, sagebrush, and creosote.

N. $0^\circ 13'$ W., bet. secs. 3 and 4.

Over rolling land, through very scattered timber and undergrowth.

Asc. 370 ft. over SW. slope.

8.95 Wash, 20 lks. wide, 3 ft. deep, drains E.

35.15 Top of ridge, bears S. 80° W. and N. 80° E.; desc. 205 ft. over NE. slope.

40.00 Point for the $\frac{1}{4}$ sec. cor. of secs. 3 and 4.

Set an iron post, 30 ins. long, $2\frac{1}{2}$ ins. diam., 18 ins. in the ground, with brass cap marked

$\frac{1}{4}$
S4 | S3
1955

Subdivision, T. 38 N., R. 15 W.

Chains

raise a mound of stone, 3 ft. base, 2½ ft. high, N. of cor.
No bearing trees available.

76.70 Wash, 30 lks. wide, 20 ft. deep, drains SW.

82.79 The cor. of secs. 3, 4, 33, and 34, Ts. 38 and 39 N., R. 15 W.

Land, rolling.
Soil, sandy and gravelly.
Timber, pinon and cedar.
Undergrowth, blackbrush, sage, and creosote.

Beginning at the cor. of secs. 15, 16, 21, and 22, T. 38 N., R. 15 W.
N. 89° 56' W., bet. secs. 16 and 21.

Over rolling land, through scattered timber and undergrowth.

Desc. 45 ft. over W. slope.

12.05 Road in Cottonwood Canyon, bears N. and S.; asc. 450 ft. over steep E. slope.

32.20 Rocky ridge top, bears N. and S.; desc. 100 ft. over rocky W. slope.

40.00 Point for the ¼ sec. cor. of secs. 16 and 21.

Set an iron post, 30 ins. long, 2½ ins. diam., 10 ins. in the ground, to bedrock, and in a mound of stone to top, with brass cap marked

¼ $\frac{S 16}{S 21}$
1956

from which

A pinon, 14 ins. diam., bears S. 19° 45' W., 28 lks. dist., marked ¼ S21 BT.

A cedar, 12 ins. diam., bears N. 39° W., 88 lks. dist., marked ¼ S16 BT.

Cor. falls in a draw, draining southerly.

Asc. 75 ft. over E. slope.

49.60 Ridge, bears N. 30° E. and S. 30° W.; desc. 540 ft. over steep W. slope.

80.00 Point for the cor. of secs. 16, 17, 20, and 21.

Set an iron post, 30 ins. long, 2½ ins. diam., 14 ins. in the ground to bedrock, and in a mound of stone to top, with brass cap marked

T38N R15W
S17|S16
S20|S21
1956

raise a mound of stone, 3 ft. base, 2 ft. high, E. of cor.
from which

Subdivision, T. 38 N., R. 15 W.

Chains

A pinon, 8 ins. diam., bears S. $63\frac{1}{2}^{\circ}$ W., 33 lks. dist., marked T38N R15W S20 BT.

A pinon, 12 ins. diam., bears N. 64° W., 37 lks. dist., marked T38N R15W S17 BT.

Land, rolling.

Soil, very rocky.

Timber, pinon and cedar

Undergrowth, sage, catclaw, black brush, and creosote.

N. $0^{\circ} 03'$ W., bet. secs. 16 and 17.

Over rolling land, through medium timber and undergrowth.

.90 Wash, 10 lks. wide, 6 ft. deep, drains SW.; asc. 60 ft. over S. slope.

3.80 Spur, slopes W.; desc. 95 ft. over N. slope.

11.90 Wash, 10 lks. wide, 4 ft. deep, drains W.

14.25 Wash, 20 lks. wide, 5 ft. deep, drains W.; asc. 55 ft. over SE. slope.

18.20 Small spur, slopes W.; desc. 50 ft. over NW. slope.

24.15 Wash, 20 lks. wide, 10 ft. deep, drains W.; asc. 50 ft. over SE. slope.

31.25 Spur, slopes W.

36.05 Point of descent; desc. 70 ft. over gradual NW. slope.

40.00 Point for the $\frac{1}{4}$ sec. cor. of secs. 16 and 17.

Set an iron post, 30 ins. long, $2\frac{1}{2}$ ins. diam., 20 ins. in the ground, with brass cap marked

$\frac{1}{4}$
 S17 | S16
 1956

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

48.15 Wash, 5 lks. wide, 2 ft. deep, drains W.

54.85 Wash, 10 lks. wide, 4 ft. deep, drains SW.; leave timber.

65.50 Wash, 5 lks. wide, 3 ft. deep, drains S. 10° W.

76.70 Wash, 15 lks. wide, 8 ft. deep, drains S. 10° W.

80.00 Point for the cor. of secs. 8, 9, 16, and 17.

Set an iron post, 30 ins. long, $2\frac{1}{2}$ ins. diam., 20 ins. in the ground, with brass cap marked

T38N R15W
 S8 | S9
 S17 | S16
 1956

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

No bearing trees available.

Subdivision, T. 38 N., R. 15 W.

Chains	
	<p>Land, rolling. Soil, gravelly and rocky. Timber, none. Undergrowth, black brush, sagebrush, and catclaw.</p>
	<p>Beginning at the cor. of secs. 9, 10, 15, and 16. West, bet. secs. 9 and 16. Over rolling land, through medium timber and undergrowth. Ascend 280 ft. over NE. slope.</p>
23.00	Top of ascent; thence across ridge top.
31.80	Point of descent; desc. 125 ft. over SW. rocky slope.
39.96	Point for the $\frac{1}{4}$ sec. cor. of secs. 9 and 16. Set an iron post, 30 ins. long, 2 $\frac{1}{2}$ ins. diam., 8 ins. in the ground to bedrock, and in a mound of stone to top, with brass cap marked
	$\frac{1}{4} \frac{S 9}{S 16}$ 1956
	Continue descending 200 ft. over rocky SW. slope.
47.20	Base of descent; thence across rolling land.
58.00	Old mine road, track, bears N. and S.
59.20	Wash, 15 lks. wide, 4 ft. deep, drains SW.; asc. 120 ft. over moderate E. slope.
72.20	Wash, 5 lks. wide, 2 ft. deep, drains S.
76.80	Wash, 5 lks. wide, 2 ft. deep, drains S.
79.93	The cor. of secs. 8, 9, 16, and 17. Land rolling. Soil, gravelly and rocky. Timber none. Undergrowth, black brush, sagebrush, and catclaw.
	<p>Beginning at the cor. of secs. 1, 2, 35, and 36, on the N. bdy. of the township. S. 0° 01' E., bet. secs. 1 and 2. Over rolling land, through dense timber and medium undergrowth. Desc. 55 ft. over S. slope.</p>
10.65	Rim, bears N. 35° W. and S. 35° E.; desc. 500 ft. over steep SE. slope.
27.55	Cottonwood Wash, 60 lks. wide, 6 ft. deep, drains SW.; thence across dry bottom of canyon.

Subdivision, T. 38 N., R. 15 W.

Chains

- 31.00 Base of ascent; asc. 325 ft. over rocky NW. slope.
- 38.55 New fence, 4 strand, barbed, bears E. and W.
- 41.88 Point for the $\frac{1}{4}$ sec. cor. of secs. 1 and 2.
 Set an iron post, 30 ins. long, 2 $\frac{1}{2}$ ins. diam., 16 ins. in the ground, and in a mound of stone to top, with brass cap marked

S2 | S1
1956

 from which
 A pinon, 8 ins. diam., bears N. 89° W., 62 lks. dist., marked $\frac{1}{4}$ S2 BT.
 Continue ascending 35 ft. over NW. slope.
- 52.75 Ridge, bears N. 40° E. and S. 40° W.; desc. 25 ft. over SE. slope.
- 57.65 Wash, 5 lks. wide, 6 ft. deep, drains W.; asc. 40 ft. over NW. slope.
- 70.60 Wash, 15 lks. wide, 15 ft. deep, drains WSW.
- 81.88 Point for the cor. of secs. 1, 2, 11, and 12.
 Set an iron post, 30 ins. long, 2 $\frac{1}{2}$ ins. diam., 18 ins. in the ground, with brass cap marked

T38N R15W
S2 | S1
S11 | S12
1956

 raise a mound of stone, 3 ft. base, 2 $\frac{1}{2}$ ft. high, S. of cor.
 from which
 A cedar, 10 ins. diam., bears S. 82° W., 62 lks. dist., marked T38N R15W S11 BT.
 A cedar, 14 ins. diam., bears S. 42° E., 85 lks. dist., marked T38N R15W S12 BT.
- Land, rolling.
 Soil, rocky.
 Timber, cedar.
 Undergrowth, black brush, sagebrush, and some grass.
- S. 89° 56' W., bet. secs. 2 and 11.
 Over rolling land, through dense timber and scattered undergrowth.
 Desc. 30 ft. over SW. slope.
- 2.90 Wash, 10 lks. wide, 4 ft. deep, drains W.; continue descending 105 ft. over SW. slope.
- 14.35 Rocky ledge, bears N. and S.; desc. 160 ft. over steep NW. slope.
- 34.90 Slope changes to W.

Subdivision, T. 38 N., R. 15 W.

Chains	
40.00	Point for the $\frac{1}{4}$ sec. cor. of secs. 2 and 11.
	Set an iron post, 30 ins. long, 2½ ins. diam., 18 ins. in the ground, with brass cap marked
	$\frac{S\ 2}{S\ 11}$
	1956
	Continue descending 305 ft. over steep NW. slope.
53.30	Base of descent; thence across bottom of Cottonwood Canyon.
54.05	Track road, bears N. 15° E. and S. 15° W.
54.35	Cottonwood Wash, 25 lks. wide, 6 ft. deep, drains SW.
64.70	Base of ascent; asc. 95 ft. over SE. slope.
70.00	Small spur, slopes S.
75.50	Asc. 75 ft. across top of spur.
80.00	Point for the cor. of secs. 2, 3, 10, and 11.
	Set an iron post, 30 ins. long, 2½ ins. diam., on solid rock, and in a mound of stone to top, with brass cap marked
	T38N R15W
	$\frac{S3\ S2}{S10\ S11}$
	1956
	<p>Land, rolling and broken. Soil, shallow loam and rocky. Timber, cedar and pinon. Undergrowth, black brush, catclaw, and sagebrush.</p>
	N. 0° 03' W., bet. secs. 2 and 3.
	Over rolling land, through thinly scattered timber and undergrowth.
2.00	Asc. 130 ft. over SE. slope.
3.75	Rim, bears N. 75° W. and S. 75° W.; thence across flat top mesa.
21.90	SW. edge of canyon rim; desc. 370 ft. over NW. slope.
40.00	Point for the $\frac{1}{4}$ Sec. cor. of secs. 2 and 3.
	Set an iron post, 30 ins. long, 2½ ins. diam., 16 ins. firmly in the ground, and in a mound of stone to top, with brass cap marked
	$\frac{S3\ S2}{S10\ S11}$
	1956
	raise a mound of stone, 3 ft. base, 2 ft. high, N. of cor.
45.00	Wash, 20 lks. wide, 10 ft. deep, drains SW.; asc. 375 ft. over SE. slope.
48.00	Rim rock, 80 ft. high, bears NE. and SW.
64.30	Rocky ridge, bears NNE. and SSW.

Subdivision, T. 38 N., R. 15 W.

Chains

80.30 Wash, 10 lks. wide, 3 ft. deep, drains SW.

82.34 The cor. of secs. 2, 3, 34, and 35, Ts. 38 and 39 N., R. 15 W.

Land, rolling and broken.

Soil, shallow loam and rocky.

Timber, cedar and pinon.

Undergrowth, black brush, catclaw, and sagebrush.

General Description

The land within T. 38 N., R. 15 W., is principally rolling and broken, with flat-top mesas with a generally southerly exposure and drainage towards the Grand Gulch. This township lies in the Virgin Mountains, in which the west part of the township lies on the west of the mountains.

Cottonwood Canyon is the main canyon running through the township, entering the township on the north boundary between secs. 1 and 36, draining in a southwesterly direction, leaving the township on the south boundary, between secs. 4 and 33. Cottonwood Canyon attains a maximum depth of approximately 800 ft. and is rimmed with ledges and rock masses at many points.

The soil is principally light, shallow sand and loam, with numerous outcroppings and lava beds. The timber is a massive growth of cedars covering two-thirds of the township, with scattered pinon and scrub oak. The undergrowth consists of black brush, sagebrush, catclaw, creosote, sweet balsa, and good grass in the higher mesa.

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BOOK 4512

4-680
(Feb., 1950)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FIELD ASSISTANTS

NAMES	CAPACITY
Arlo P. Lloyd	ass't. instrument man
John R. Koger	ass't. instrument man
Kenneth C. Pettingill	Note keeper
Paul D. Barnes	Flagman
Bob Lee Brackenbury	truck driver and axeman
Eugene Owens	axeman

40
23

CERTIFICATE OF CADASTRAL ENGINEER

I, George M. Boofer, HEREBY CERTIFY upon honor that, in
pursuance of special instructions bearing date of the 22 day of September 1954,
I have surveyed the south boundary of township 39 north., range 15 west; the west
boundary and a portion of the subdivision of township 38 north, range 15 west.

of the G. & S. R. 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.

June 14, 1956

Salt Lake City, Utah

George M. Boofer
George M. Boofer

CERTIFICATE OF APPROVAL

BUREAU OF LAND MANAGEMENT,

Washington, D. C., NOV 26 1956, 1956

The foregoing field notes of the survey of the south boundary of township 39 north, range
15 west, and the west boundary and a portion of the subdivision of township 38 north,
range 15 west.

executed by George M. Boofer Cartographer, Cadastral

having been critically examined and found correct, are hereby approved.

Earl G. Harrington
Chief, Division of Cadastral Engineering
Cadastral Engineering Staff Officer

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.~~

~~Chief, Division of Cadastral Engineering~~