BOOK 3862

# FIELD NOTES

OF THE SURVEY OF THE

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	EAS	T Boundary and		•
NORTH	Boundary of To	ownship 34 North,	Range 2 East	
		and	· · · · · · · · · · · · · · · · · · ·	
Pa-	rt of Grand Canvo	n National Park Bo	oundary	
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		of		
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	Township 34	North, Range 2 Es	ıst	
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		t River Base an		
In the State of	Ari	zona		
	EX	ECUTED BY	*.	
			·	
	Benjamin	J. Kinsey, U.S.Sw	rvevor	
			· · · · · · · · · · · · · · · · · · ·	
In the capacity o	of U.S. Surveyor, un	der Special Instruction	s dated Nay 11	, 1927 <b>,</b>
issued by the I	District (Gadastral)	Engineers, to govern	surveys included in	ı Group
No. 146, Arizo	ona, which were app	proved by the Commi	ssioner of the G <mark>ener</mark>	al Land
Office, May 20	, 1927 , and As	ssignment Instructions	dated July 8	_ <b>, 1927</b> .
•	Y	Santonhan	40.0m ·	•
		September 8	,	
	Survey completed	September 27	1027	

3862

## Book "B" Group 146 - Arizona

BOOK 3862

Land within Grand (anyon National Park.

Land within Kaibab National Forest and Grand

Canyon National Game Preserve.

### INDEX DIAGRAM.

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Surveyed under this group.

Accepted surveys.

\_\_\_\_\_Unsurveyed.

nd . There Book "B"

Group 146 Arizona

Township 34 North, Range 2 East

DATE DIAGRAM

1927

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\_ Surveyed by Benjamin J. Kinsey, U.S. Surveyor an dates shown thereon.

Surveyed under this group. Notes and dates in other books.

Accepted surveys.

\_\_\_\_Unsurveyed.

Chains

PRELIMINARY FIELD TEST
of
Buff Transit No.9940
by
Benjamin J. Kinsey, U.S.Surveyor.

July, 30, 1927: at at station in camp, in the N.W. quarter of sec.19, T.35 N., R.2 E., G.& S.R.B. and M., Arizona, in latitude 36°25'13"N., and longitude 112°14'2'W., examine the adjustments of the transit and find no errors; then to test the workings of the solar apparatus by comparing its indications with a true meridian determined by Polaris observation, proceed as follows:

Polaris observation, proceed as follows:
At 11h.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 set in top of a stake driven firmly in the ground about 5 chs. N.

Azimuth of Polaris at eastern elongation: 1°21'20".

July, 31, 1927: lay off the azimuth of Polaris 1°21'1 to to the west and mark the meridian thus determined by a tack set in top of a log about 5 chs. distant.

tack set in top of a log about 5 chs. distant.

At 10h.00m., a.m., app.t., set off 36° 25 N. on the lat.

arc, 18° 24½ N., on the decl. arc and determine a meridian with the solar which is found to agree with the true meridian.

At 12h.00m., app.noon, with the lat. are unchanged, observe the sun on the meridian; the resultant reading of the decl. are is 18°23½1N., which agrees with the computed declination of the sun.

At 3h.00m., p.m., app.t., with lat.arc unchanged, set off 18°21'N., on the decl. arc and determine a meridian with the solar which is found to agree with the true meridian.

- All all of the observations taken during the usual hours of solar work agree within 1' of the true meridian, conclude that the adjustments of the instrument is satisfactory.
- All measurements are made with a Lufkin steel tape 5 chs. in length, compared with a Lufkin standard and found correct.

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

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Chains
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In 1922, Benjamin J. Kinsey, U.S. Transitman, under Group 121, established the corner of secs. 1, 6, 31 and 36, Ts. 33 and 34 N., Rs. 2 and 3 E., in connection with the survey of the Grand Cangon National Park Boundary line. The following notes describe the survey of range line bet. Ts. 34 N., Rs. 2 and 3 E.

The cor. of secs. 1, 6, 31 and 36, Ts. 33 and 34 N., Rs. 2 and 3 E., is an iron post 3 ins. in diam., projecting 12 ins. above ground, firmly set, properly mkd. and witnessed by four properly marked bearing trees one each NE, SE, SW and NW of cor. Thence, North, on true line, bet. secs. 31 and 36.

Over mountainous land, thru heavy timber and scattering undergrowth.

undergrowth.

Asc. 68 ft. over SB slope.

4.50

19.50

Ridge, bears NE-SW.
Desc. 214 ft. over NW slope.
Ravine bottom, 10 lks. wide, course W.

Asc. 20 ft. over SW slope.

21.60. 28.00 40.00

Spur, slopes SW. Desc. 25 ft. over NW slope, wash, 110 lks. wide, course SW. Asc. 69 ft. over SE slope, to Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for the 4 sec. cor. of secs. 31 and 36, with brass cap mkd.

4

### **s**36

1927 from which, an aspen, 14 ins. in diam., brs. S.664°E., 73 lks. dist., mkd. 4 S31 BT a yellow pine, 36 ins. in diam., brs. S.89°W., 37 lks. dist., mkd. 4 S36 BT

57.00<sup>-</sup> 72.00 75.70

80.00

Asc. 243 ft. over SE slope.
Edge of beach, brs. NE-SW.; continue over level land.
Leave beach, brs. NE-SW.; Desc. 98 ft. over NW. slope.
Wash, near head, 5 lks. wide, course SW.
Asc. 86 ft. over SE slope to
Set an iron post 3 ft. long, 2 ins. in diam., 20 ins. in
the ground to bedrock, supported by a md. of stone, for
the cor. of secs. 25, 30, 31 and 36, with brass cap mkd.

T34N R2E R3E \$25 | \$30 \$36 | \$31

from which. a yellow pine, 8 ins. in diam., brs. N.56°E., 54 lks. dist., mkd. T34N R3E S30 BT an aspen, 4 ins. in diam., brs. S.38°E., 14 lks. dist., mkd. BT. an aspen, 6 ins. in diam., brs. S.25°W., 53 lks. dist., mkd. #34N R2E S36 BT a spruce, 8 ins. in diam., brs. N.30°W., 6 lks. dist., mkd. T34N R2E S25 BT

Land, mountainous and level. Soil, rocky 3rd. rate. Timber, fir, aspen soruce and yellow pine. Undergrowth, juniper brush.

Survey of the East Boundary of T.34 N., R.2 E Chains North, on true line, bet. secs. 25 and 30. Over mountainous land, thru heavy timber and scattering undergrowth. Over spur, 1:50 chawide, slopes W.; desc. 96 ft. over NW slope. Draw, course SW. Asc. 44 ft. over SW slope. Spur, slopes W. Desc. 185 ft. over NW slope. 8.00 15.00 Bottom of canyon, 2.00 chs. wide, level, drains SW.

Asc. 254 ft. over SE slope, to

Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in
the ground for the ½ sec. cor. secs. 25 and 30, with 25.00 40.00 brass cap mkd. S25 S30 1927 from which. an aspen, 6 ins. in diam., brs. S.68°E., 10 lks. dist., mkd. \$ \$30 BT an aspen, 6 ins. in diam., brs. N.62°W., 18 lks. dist., mkd. 1 S25 BT Asc. 90 ft. over SE slope. Over level bench, brs. NE-SW. 44.00 62.00 Leave bench, brs. NW-SE.; desc. 138 ft. over NE slope.

Draw, course NW. Asc. gradual SW slope to

Set an iron post 3 ft. long, 2 ins. in diam., 24 ins. in
the ground for the cor. ef secs. 19, 24, 25 and 30, with 79.00 86.00 brass cap mkd. T34N R3E R2E **s**19 **S24** 1927 from which, an aspen, 18 ins. in diam., brs. N.40°E., 4 lks. dist., mkd. T34N R3E S19 BT an aspen, 16 ins. in diam., brs. B.9°E., 49 lks. dist., mkd. T34N R3E S30 BT a fir, 8 ins. in diam., brs. S.34°W., 31 lks. dist., mkd. T34N R2E S25 BT a fir, 10 ins. in diam., brs. N.61°W., 17 lks. dist., mkd. T34N R2E S24 BT Land, mountainous and level. Soil, rocky 3rd. rate.

Timber, yellow pine, fir, spruce and aspen. Undergrowth, juniper brush.

North, on true line, bet. secs. 19 and 24. Over mountainous land, thru heavy timber and scattering under hrowth.

Undergrowth.

Over level bottom of draw, drains N.80°W.

Leave bottom, begin slight asc. over SW slope.

Graded road, from Little Park to Point Sublime, brs.E-W.

Asc. 148 ft. over SW slope.

Spur, slopes W.; over level top.

Leave spur, desc. 69 ft. over NW slope.

Wosh 10 lkg wide source NW 2.00 2.60

6.40

11,50

18.00 Wash, 10 lks. wide, course NW. Asc. 17 ft. over SW slope.

Spur, slopes NW. Over level top. 20.40

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Survey of the East Boundary of T.34 N., R.2 E.
Chains
             Leave spur top; desc. 122 ft. over N. slope.
25.40
             Enter canyon bottom, drains SW; over level land.
Leave bottom; asc. 86 ft. over SE slope to
Set an iron post 3 ft. long, l in. in diam., 20 ins. in
the ground for the \frac{1}{2} sec. cor. of secs. 19 and 24, with
35.00
36.00
40.00
                  brass cap mkd.
                                                                1
                                                        S24 | S19
                                                            1927
                                                                                                      from which.
                 a fir, 12 ins. in diam., brs. N.64°E., 63 lks. dist., mkd. ½ S19 BT a yellow pine, 40 ins. in diam., brs. N.35°W., 8 lks. dist., mkd. ½ S24 BT
             Asc. 67 ft. over SE slope.
Spur. slopes SW: over level land.
49.50
54.00
57.00
             Leave spur, desc. gradual N. slope.
Wash. near head, course SW. Asc. 29 ft. over S. slope.
             Spur, slopes W.; over level land.
Leave spur top; desc. 53 ft. over N. slope.
Shallow draw, drains W. Asc. gradual S. slope to
Set an iron post 3 ft. long, 2 ins. in diam., 24 ins. in
the ground for the cor. of secs. 13, 18, 19 and 24, with
brass cap mkd.
64.50
69.50
76.50
80.60
                                                             T34N
                                                     R2E R3E
S13 S18
                                                                                                        from which.
                 a fir, 18 ins. in diam., brs. N.33°E., 57 lks. dist., mkd. T34N R3E S18 BT a fir, 18 ins. in diam., brs. S.54±°E., 48 lks. dist., mkd. T34N R3E S19 BT a fir, 8 ins. in diam., brs. S.73°W., 46 lks. dist., mkd. T34N R2E S24 BT a spruce 14 ins. in diam.
                                                             1927
                  a spruce, 14 ins. in diam., dist., mkd. T34N R2E S13 BT
                                                                        brs. N.793°W., 47 lks.
              Land, mountainous and level.
              Soil, rocky 3rd. rate.
Timber, yellow pine, aspen, fir and spruce.
Undergrowth, juniper brush.
              North, on true line, bet. secs. 13 and 18.
              Over rolling land, thru heavy timber and scattering under-
                  growth.
              Asc. gradual S. slope.
              Desc. 23 ft. over N. slope.
Shallow draw, 2 chs. wide, hear head, drains W.
  5.00
17.50
              Asc. 52 ft. over gradual S. slope.
28.00
              Over level land.
             Desc. 52 ft. over gradual NW slope to
Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in
the ground for the \(\frac{1}{4}\) sec. cor. of secs. 13 and 18, with
32.50
40.00
                  brass cap mkd.
                                                          s13 | s18
```

1927

from which,

6

Survey of the East Boundary of T.34 N., R.2 E.

Chains

a yellow pine, 14 ins. in diam., brs. S.54°E., 36 Iks. dist., mkd. \(\frac{1}{4}\) S18 BT a yellow pine, 8 ins. in diam., brs. N.65°W., 40 lks. dist., mkd. 4 S13 BT

This corner is set on S. edge of draw which drains SW.; down this draw about 20 chs. dist. is a pond of stock water about 3 chs. in diam., enclosed in a pole corral

Over level draw bostom.

42.00 53.00 75.00 75.00 80.00 Leave draw; asc. 63 ft. over gradual S. slope.

Thence over nearly level top of divide, bearing N.and SE.

Leave divide, brs. NW-SE. Desc. 23 ft. over NE slope to

Set an iron post 3 ft. long, 2 ins. in diam., 24 ins. in

the ground for the cor. of secs. 7, 12, 13 and 18, with brass cap mkd.

> T34N R2E R3E 812 | **87**3 S13 S18

1927 from which, an aspen, 5 ins. in diam., brs. N.41°E., 14 lks. dist., mkd. T34N R3E S7 BT a spruce, 8 ins. in diam., brs. S.13°E., 57 lks. dist., mkd. T34N R3E S18 ET a spruce, 12 ins. in diam., brs. S.3°W., 40 lks. dist., mkd. T34N R2E S13 BT a spruce, 8 ins. in diam., brs. N.49°W., 20 lks. dist., mkd. T34N R2E S12 BT

Land, rolling and level. Soil, rocky 3rd. rate. Timber, aspen fir, spruce and yellow pine: Undergrowth, juniper growth.

North, on true line, bet. secs. 7 and 12. Over rolling land, thru heavy timber and scattering under-

Desc. 77 ft. over NE slope.

Amc. 122 ft. over SE slope. Shallow draw, course E. 4.50 Enter mountainous land. Spur, slopes E. Desc. 96 ft. over NE slope.

13.00 25.00

27.00

Draw, near head, course E. Asc. 14 ft. over SE slope.

Spur, slopes E. Desc. 91 ft. over NE slope.

Wash, near head, course E. Asc. 21 ft. over SE slope, to Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for the \(\frac{1}{4}\) sec. cor. of secs. 7 and 12, with 36.20 40.00 brass cap mkd.

**S12** 

from which, an aspen, 8 ins. in diam., brs. S.77°E., 11 lks. dist., mkd. ½ S7 BT an aspen, 6 ins. in diam., brs. N.74°W., 33 lks. dist., mkd. ½ S12 BT

Asc. 28 ft. over SE slope. 45.50 53.30 Spur, slopes NE.; desc. 114 ft. over NW slope. From which,

Mason Spring, brs. N.28°08'E.,

Leave heavy timber, brs. NW-SE; along West edge of VT Park. 54.50

Survey of the East Boundary of T.34 N., R.2 E. Chains From Whieh, 59.47 Mason Spring brs. N.34°50 'E. 60.0**0** Swale, drains E. Asc. 46 ft. over SE slope. Enter timber, brs. NE-SW.
Spur, slopes NE. Desc. 66 ft. over NW slope. 64.00 73.00 Blazed trail, hrs. N.25°E.-S.25°W.

Set an iron post 3 ft. long, 2 ins. in diam., 20 ins. in the ground to bedrock, supported by a md. of stone for the cor. of secs. 1, 6, 7 and 12, with brass cap mkd. 75.40 80.00 R2E R3E S1 S6 **S12** 1927 from which, an aspen, 8 ins. in diam., brs. N.142°E., 44 lks. dist., mkd. T34N R3E S6 BT an aspen, 12 ins. in diam., brs. S.10°E., 31 lks. dist., mkd. T34N R3E S7 BT a spruce, 12 ins. in diam., brs. S.63°W., 80 lks. dist., mkd. T34N R2E S12 BT an aspen, 10 ins. in diam., brs. N.65°W., 80 lks. dist., mkd. T34N R2E S1 BT Land, rolling, and mountainous. Soil, rocky 3rd. rate. Timber, yellow pine, aspen, fir and spruce. Undergrowth, juniper brush. North, on true line, bet. secs. 1 and 6. Over rolling land, thru heavy timber and scattering undergrowth. Desc. 23 ft. over N. slope. 0.65 Telephone line, brs. NW-SE. 1.50 5.00 7.50 15.00 28.00 Spur, slope E. Besc. slight NE slope. 30.00 34.00 36.00 Low spur, slopes NE. Desc. gradual NE slope.

39.70 40.00

Leave timber, brs. E-W.; across open arm of VT Park. Draw, course E. Asc. 23 ft. over gradual S. slope. Enter timber, brs. NE-SW. Leave timber, brs. E-W. Across open arm of VT Park. Draw, course NE. Asc. gradual SE slope. Enter timber, brs. NE-SW.

Union Pacific Telephone line, bears NW-SE. Edge of timber, brs. NW-SE.

Set an iron post 3 ft. long, 1 in. in diam., 18 ins. in the ground to bedrock, supported by a md. of stone, for the  $\frac{1}{2}$  sec. cor. of secs. 1 and 6, with brass cap mkd.

86 Sl

1927 an aspen, 10 ins. in diam., brs. S.37½°E., 159 lks. dist., mkd. ½ S6 BT a spruce, 14 ins. in diam., brs. S.79°W., 75 lks. dist., mkd. ½ S1 BT

80.00

Across open VT Park. Desc. 34 ft. over gradual NE slope. Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in the ground for the cor. of secs. 1, 6, 31 and 36, Ts. 34 and 35 N., Rs. 2 and 3 E., with brass cap mkd.

Survey of the East Boundary Tof T. 34 N., R. 2 E.

Chains

RZE R2E <u>836</u> <u>931</u> 81

1927

No bearing trees available :; raise a md. of stone 3 ft. base,  $l\frac{1}{2}$  ft. high S.of corner.

Land, rolling.
Soil, rocky 3rd. rate.
Timber, aspen fir, yellow pine and spruce.
Undergrowth, juniper brush.

```
Survey of the North Boundary of T.34 N. R. 2 E.
Chains
               From cor. of secs. 1, 6, 31 and 36, Ts. 34 and 35 N., Rs. 2 and 3 E., hereinbefore described.
              West, on random line, setting temporaryicors at intervals of 40.00 chs., until at Fall 55 lks. N. of the cor. of secs. 1, 6, 31 and 36, Ts. 34 and 35 N., Rs. 1 and 2 E., described in book "A" of this Group.
478.78
              1.25
              Draw, 50 1kst wide, course SW., and fence brs. NE. and SW. Asc. 103 ft. over NW.
   9.80
              Continue along nearly level N. slope over dead, fallen slope.
                   timber.
              Desc. 75 ft. over NE slope.
Wash, 10 lks. wide, course NW. Asc. 181 ft. over W. slope.
Wire fence, brs. NW-SE.
 17.80
  22.25
 23.90
26.00
28.00
38.78
               Old wagon road, brs. NW-SE.
              Thence along nearly level N. slope to (40.00 chs. from the cor. of secs. 5, 6, 31 and 32)
Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for the 4 sec. cor. of secs. 6 and 31, with
                  brass cap mkd.
                                                               331
4 86
                                                                                                 from which.
                 an aspen, 5 ins. in diam., brs. N.5\frac{1}{2}°W., 10 lks. dist., mkd. \frac{1}{4} S51 BT an aspen, 6 ins. in diam., brs. S.54\frac{1}{2}°W., 16 lks. dist., mkd. \frac{1}{4} S6 BT
              Asc. 265 ft. over NW slope.
              Slope changes to N. Set an iron post 3 ft. long, 2 ins. in diam. 24 ins. in the ground for the cor. of secs. 5, 6, 31 and 32, with
                  brass cap mkd.
                                                                 T35N R2E
                                                                . 831 832
                                                                  s6 s5
                                                                      T34 N
                                                                      1927
                                                                                                    from which.
                 a fir, 12 ins. in diam., brs. N.49\frac{1}{2}°E., 35 lks. dist., mkd. T35N R2E S32 BT
                 a spruce, 12 ins. in diam., brs. S.75°E., 12 1ks.
                 dist., mkd. T34N R2E S5 BT
                 a yellow pine, 12 ins. in diam., brs. S.75°W., 54 lks. dist., mkd. T34N R2E S6 BT an aspen, 5 ins. in diam., brs. N.61°W., 36 lks. dist., mkd. T35N R2E S31 BT
               Land, mountainous.
Soil, rocky, 3rd. rate.
Timber, aspen, fir, spruce and yellow pine.
Undergrowth, locust and juniper brush.
             N.89°56'E., on true line, bet. secs. 5 and 32. Over mountainous land, thru heavy timber and scattering
                 undergrowth.
             Asc. 18 ft. over gradual NW slope.
             Desc. 16 ft. over NE slope.

Wash, 10 lks. wide, course NW. Asc. 79 ft. over NW slope.

Spur, slopes N. Desc. 134 ft. over NE slope.

Wash, 10 lks. wide, course N. Asc. 119 ft. over NW slope.
  4.00
  9.65
15.50
27.35
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Survey of the North Boundary of T. 34 N. Chains Desc. 15 ft. over NE slope to
Set an iron post 3 ft. long, 1 in. in diam., 24 ins. in
the ground for the ½ sec. cor. of secs. 5 and 32, with 35.QO 40.00 brass cap mkd. 1 S 32 4 S 5 from which, a yellow pine, 6 ins. in diam., brs. N.20°W., 6 lks. dist., mkd. ½ \$32 BT an aspen, 6 ins. in diam., brs. \$.28½°E., 37 lks. dist., mkd. ½ \$5 BT Desc. 40 ft. over NE slope.
Asc. 64 ft. over NW slope.
Spur, slopes N. Over level N. slope. 45.00 54.00 55.00 Desc. 61 ft. over NE slope. Wash, 10 lks. wide, course NW. Asc. 114 ft. over NW slope. Spur, slopes N. Over level N. slope.

Desc. 32 ft. over NE slope to

Set an iron post 3 ft. long, 2 ins. in diam., 25 ins. in
the ground for the cor. of secs. 4, 5, 32 and 33, with 66.00 68**.00** 80.00 brass cap mkd. T35N R2E S32 S33 S5 S4 T34N 1927 from which, a fir, 8 ins. in diam., brs. N.58°E., 42 lks. dist., mkd. T35N R2E S33 BT a fir, 6 ins. in diam., brs. S.44°E., 51 lks. dist., mkd. T34N R2E S4 BT a fir, 4 ins. in diam., brs. S.654°W., 19 lks. dist., mkd. BT

ah aspen, 6 ins. in diam., brs. N.57½°W., 53 lks.
dist., mkd. T35N R2E S32 BT Land, mountainous. Soil, rocky 3rd. rate. Timber, aspen, fir, spruce and yellow pine. Undergrowth, locust and Huniper brush. N. 89° 56 'E., on true line, bet. secs. 4 and 33. Over mountainous land, thru heavy timber and scattering undergrowth. Desc. gradually over NE slope. Draw, 50 lks. wide, course N.70°W.; asc. 29 ft. up same. Leave draw, from N.70°E.; Asc. 50 ft. over W. slope. Spur, slopes N. Asc. 43 ft. along N. slope. Desc. 20 ft. over NE slope. 3.00 10.00 23.50 30.00 Draw, course NW.; Asc. 55 ft. over W. slope.

Spur, slopes N. Over level top to

Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in
the ground for the \(\frac{1}{2}\) sec. cor. of secs. 4 and 33, with 32.75 39.00 40.00 brass cap mkd. 1 S 33 S 4 from which, a fir, 14 ins. in diam., brs. N.24 $\frac{1}{2}$ °E., 14 lks. dist., mkd.  $\frac{1}{2}$  S33 BT a spruce, 12 ins. in diam., brs. S.48 $\frac{1}{2}$ °W., 31 lks.

dist., mkd. 1 S4 BT

```
11
Chains
               Pesc. 42 ft. over NE slope.
               Draw, course NW. Asc. 75 ft. over W. slope. Spur, slopes N. Over level top.
43.70
49.00
               Desc. 31 ft. over NE slope.

Draw, course N. Asc. 28 ft. over NW slope.

Spur, slopes N. Desc. gradual NE slope.

Draw, course N. Asc. 123 ft. over W. slope.

Level bench, brs. NE-SW; over level land to

Set an iron post 3 ft. long, 2 ins. in diam., 24 ins. in the ground for the cor. of secs. 3, 4, 33 and 34, with brass cap mkd.
55.00
58.00
62.70
65.50
78.00
80.00
                                                                     T35N R2E
                                                                     833 834
84 83
"34 N
                                                                          1927
                                                                                                               from which,
                    a spruce, 8 ins. in diam., brs. N.65°E., 7 lks. dist., mkd. T35N R2E S34 'BT a spruce, 8 ins. in diam., brs. S.19½°E., 13 lks. dist., mkd. T34N R2E S3 BT a fir, 7 ins. in diam., brs. S:59°W., 5 lks. dist., mkd. T34N R2E S4 BT a fir, 8 ins. in diam., brs. N.66°W., 18 lks. dist., mkd. T35N R2E S33 BT
                Land, mountainous, and level.
                Soil, rocky 4th. rate.
               Timber, aspen, ftr, spruce and yellow pine. Undergrowth, locust and juniper brush.
                N. 99°56 E., on true line, bet. secs. 3 and 34.
                Over.mountainous land, thru heavy timber and scattering
                    undergrowth.
               Over level bench; asc. slightly 65 ft. to
Set an iron post 3 ft. long, 1 in. in diam., 25 ins. in
the ground for the 2 sec. cor. secs. 3 and 34, with
40.00
                    brass cap mkd.
                                                                $ 34
4 $ 3
                                                                     1927
                                                                                                               from which.
                    an aspen, 10 ins. in diam., brs. N.184°E., 13 lks. dist., mkd. 4 S34 BT an aspen, 9 ins: in diam., brs. S.61°W:, 26 lks. dist., mkd. 4 S3 BT
               Asc. 112 ft. over top of bench.
Leave bench, brs. NE-SW; desc. gradual SE slope.
68.00
               Draw, course SW. Asc. 14 ft. over W. slope to
Set an iron post 3 ft. long, 2 ins. in diam., 25 ins. in
ground for the cor. of secs. 2, 3, 34 and 35, with
77.30
80.00
                    brass cap mkd.
                                                                  T35N R2E
S34 S35
S3 S2
                                                                       T34N
                    1927 from which, a spruce, 8 ins. in diam., brs. N.764°E., 30 lks. dist., mkd. T35N R2E S35BT a spruce, 12 ins. in diam., brs. S.252°E., 19 lks.
```

dist., mkd. T34N R2E S2 BT

10.00

15.00

Over level diwide, brs. N-S.

Leave divide, desc. 329 ft. over NE slope to

```
Survey of the thorth Boundary of T.34 N., R.2 E.
Chains
                 an aspen, 7 ins. in diam., brs. S.49½°W., 39 lks. dist., mkd. T34N R2E S3 BT a spruce, 8 ins. in diam., brs. N.40½°W., 39 lks. dist., mkd. T35N R2E S34 BT
              Land, mountainous and level.
              Soil, rocky 3rd. rate.
              Timber, aspen, yellow pine, fir and spruce. Undergrowth, locust and juniper brush.
              N.89°56'E., on true line, bet. secs. 2 and 35.
              Over mountainous land, thru heavy timber and scattering
                  undergrowth.
              Asc. 29 ft. over SW slope.

Over level bench, brs. NE-SW. Over dead, fallen aspen.

Leave bench, brs. NW-SE. Desc. 41 ft. over NE slope.

'Draw, course NW: Asc. 29 ft. over N. slope, to

Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in

the ground for the 4 sec. cor. secs. 2 and 35, with
    5.00
  21.50
34.70
  40.00
                  brass cap mkd.
                                                      3 35
3 8 2
                                                             1927
                                                                                           from which.
                  a fir, 6 ins. in diam., brs. N.26°E., 13 lks. dist., mkd. ½ S35 BT a fir, 8 ins. in diam., brs. S.16°W., 16 lks. dist., mkd. ½ S2 BT
               Continue over slightly rolling benchland, over thick, dead,
                  fallen aspen.
               Draw, course NW. Asc. 34 ft. over SW slope. Over level divide, brs. N. and S.
  44.00
  50.00
74.50
80.00
               Wash, course N.
               Set an iron post 3 ft. long, 2 ins. in diam., 24 ins. in the ground for the cor. of secs. 1, 2, 35 and 36, with
                  brass cap mkd.
                                                           T35N R2E
S35 S36
                                                                    Sl
                                                             S2
                                                                 T34N
                                                                 1927
                                                                                                 from which.
               a fir, 16 ins. in diam., brs. N.81°E., 50 lks. dist., mkd. T35N R2E S36 BT a fir, 16 ins. in diam., brs. S.41°E., 12 lks. dist., mkd. T34N R2E S1 BT a fir, 10 ins. in diam., brs. S.12½°W., 30°lks. dist., mkd. T34N R2E S2 BT a fir, 8 ins. in diam., brs. N.34°W., 21 lks. dist., mkd. T35N R2E S35°BT
               Land, mountainous, rolling and level.
               Soil, stony, 3rd. rate.
               Timber, fir, aspen, yellow pine and spruce. Undergrowth, juniper brush.
               N. 89° 56 'E., on true line, bet. secs. 1 and 36.
               Over rolling land, thru heavy timber and scattering under-
                   growth.
     8.65
               Shallow draw, course NW. Asc. 18 ft. over SW slope.
```

Line d	<b>es</b> -	True	Dist-	Lati	tudes	D	partures
ignate	đ	Course	ance.	N.	S.	E.	W.
South	Bdy.	West	400.00				400.00
Subdiv denal		ىلان West	320.00 79.12	320.00	,		.28 79 <b>.1</b> 2
West B	dy.	North	160.00	160.00		•	
North	Bdy.	N: 89°56 E.	478.78	•55	•	- 478.78	
East E	d <b>y.</b>	South	480.00	• ,	480.00		
Conver nc <b>y</b>	ge-	•			•	•53	*
Totals				480.55	480.00	479.31	479.40
la ror		.ititmde		480.00		1,10.12	479.31

tha Portion of T. 34 N., R. 2 E.

- Troi in iatros

or in departure ----- 0.09

Survey of Part of the Subdivision Lines of T.34 N., R.2 E. (Grand Canyon National Park Boundary.)

Chains From the cor. of secs. 13, 18, 19 and 24, on the East Bdy. of T.34 N., R.2 E., hereinbefore described, a described west, on true line, bet. secs. 13 and 24.

Over mountainous land, thru heavy timber and scattering undergrowth. Along nearly level S. slope.

Spur top, slopes SW; over level top.

Leave spur, desc. 72 ft. over W. slope.

Shallow draw, course NW. Asc. slight NE slope to

Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in

the ground for the \frac{1}{4} sec. cor. of secs. 13 and 24, with 20.00 22.00 .39.50 40.00 brass cap mkd. \$ 13 \$ 24 from which. a spruce, 10 ins. in diam., brs. N.57°W., 46 lks. dist., mkd. ½ S13 BT a spruce, 12 ins. in diam., brs. S.16°E., 10 lks. dist., mkd. ½ S24 BT Asc. 45 ft. over NE slope.

Spur, slopes N. Desc. 158 ft. over W. slope.

Rocky wash, in ravine, 20 lks. wide, course SW.

Asc. 174 ft. over SE slope. 44.40 49.00 Spur, gradually slopes to SW.; over level top.
Leave top, desc. 57 ft. over NW slope to
Set an iron post 3 ft. long, 2 ins. in diam., 24 ins. in
the ground for the cor. of secs. 13, 14, 23 and 24, with 64.00 66.00 80.00 brass cap mkd. T34N R2E \$14 | \$13 \$23 | \$24 from which, 1927 a yellow pine, 14 ins. in diam., brs. N.13°E., 61 lks. dist., mkd. T34N R2E S13 BT a yellow pine, 20 ins. in diam., brs. S.6.E., 55 lks. dist., mkd. T34N R2E S24 BT. a fir, 20 ins. in diam., brs. S.63°W., 72 lks. dist., mkd. T34N R2E S23 BT. a fir, 8 ins. in diam., brs. N.40°W., 41 lks. dist.. mkd. T34N R2E S14 BT Land, mountainous and level. Soil, stony 3rd. rate. Timber, fir, aspen, spruce and yellow pine. Undergrowth, juniper brush. N.0° 1'W., on true line, bet. secs. 13 and 14. Over mountainous land, thru heavy timber and scattering undergrowth. Desc. 157 ft. over NW slope. Draw, 100 lks. wide, course S.70°W. Down this draw about 9.00 25 chs. is a spring of good water, known as "Bull Spring."
Asc. 65 ft. over gradual SE slope.
Draw, course SE. Asc. 146 ft. over SW slope.
Spur, slopes SW. Over top.
Desc. 52 ft. over NW. slope to
Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for the ½ sec. cor. of secs. 13 and 14, with 18.35 28.50 30.50 40.00 brass cap mkd.

# Survey of Part of the Subdivision Lines of T.34 N., R.2 E. (Grand Canyon National Park Boundary.)

	(Grand Canyon National Park Boundary.) 15
 Chains	
	. 4
	S14 S13.
	514 51)
	1927 from which,
	a spruce, 12 ins. in diam., brs. N.31°E., 5 lks dist., mkd. ½ S13 BT
	a spruce, 10 ins. in diam., brs. S.24°W., 25 lks.
	dist., mkd. 4 S14 BT
_	Desc. 30 ft. over NE slope.
42.00	Wash, 10 1ks. wide, course NW. Asc. 50 ft. over SW slope. Spur, slopes W. Desc. 143 ft. over NW slope.
52.00	DrawercoffreendWowiAsts gradual SWOslape.wice, colored to
55.00 61.20	Spurl, slopase Nv. in Desse, 70rst. Nover. NE. slope.
01.20	Menter of Kanahownits Canyon, 100 lks. wide, course SW. Blazed trail, brs. NE-SW.
66 00	Asc. 73 ft. over SE slope.
66.00 67.00	Spur, slopes SW. Over top. Desc. 55 ft. over NW slope.
74.00	North fork of Kanabownits Canyon, 100 lks. wide. course
80.00	SW. Asc. 64 ft. over SE slope to Set an iron post 3 ft. long, 2 ins. in diam., 24 ins. in
33.00	the ground for the cor. of secs. 11, 12, 13 and 14, with
•	brass cap mkd.
	T34N R2E
	<u>\$11 \$12</u>
	S14 S13
	1927 from which,
•	an aspen 8 ins. in diam., brs. N.81°E., 32 lks. dist., mkd. T34N R2E S12 BT
,	a spruce, 8 ins. in diam., brs. S.44°E., 35 1ks.
,	dist., mkd. T34N R2E S13 BT an aspen, 10 ins. in diam., brs. S.75°W., 20 lks.
	dist., mkd. T34N R2E S14 BT
^	a yellow pine, 36 ins. in diam., brs. N.8°W., 88 lks. dist., mkd. T34N R2E S11 BT
	Land, rolling and mountainous. Soil, rocky 3rd. rate.
	Timber, fir, yellow oine, spruce and aspen.
	Undergrowth, juniper brush and locust.
	West on a random line setting term
	West, on a random line, setting temp. corners at 40.00 ch. intervals, until at
320.00	Intersect the original cor. of secs. 7, 8, 17 and 18, es-
	tablished by Benjamin J. Kinset, U.S.T., in 1922, which is an iron post 2 ins. in diam.; firmly set and pro-
	jecting 12 ins. above ground, with brass cap properly
	mkd. and witnessed by four properly mkd. bearing trees one each NE, SE, SW. and NW. of cor.
	Thence,
	East, on true line; bet. secs. 8 and 17, Over mountainous land, thru heavy timber and scattering
	undergrowth.
4.90	Asc. 68 ft. over NW slope.  Spur, slopes SW. Over top.
5.60	Desc. 57 ft. over S. slope.
20.00 24.65	Desc. 59 ft. over SE slope.  Draw, 50 lks. wide, course S.Blazed trail in same, brs.
	NE-SW. Down this canyon about a mile is Tipover Spg.
	which has been developed and has excellent water.

. Survey of Part of the Subdivision Lines of T.34 N., R.2 E. (Grand Canyon National Park Boundary.)

```
16
     Chains
                            Asc. 20 ft. over W. slope.
Spur, slopes N. Desc. 23 ft. over NE slope.
        27.25
       29.20 Draw, course NW. Asc. 105 ft. over W. slope.
36.00 Spur, slopes NW. Desc. 26 ft. over NE slope.
38.30 Draw, course NW. Asc. 29 ft. over SW slope.
40.00 Set an iron post 3 ft. long, l in in diam., 26 ins. in the ground for the 4 sec. cor. of secs. 8 and 17, with
                                   brass cap. mkd.
                                                                                         3 8
3 17
                                                                                                  1927
                                                                                                                                                  from which.
                                  a yellow pine, 10 ins. in diam., brs. N.35°E., 23 lks. dist., mkd. ½ S8 BT a fir, 8 ins. in diam., brs. S.31°E., 18 lks. dist., mkd. ½ S17°BT
                             Asc. 88 ft. over SW slope.
                            Asc. 30 It. over SW slope.

Spur, slopes NW. Over level N. slope.

Desc. gradual NE slope.

Shallow draw, course NW. Asc. 40 ft. over SW slope.

Spur, slopes S. Desc. gradual SE slope.

Same draw, course SW. Asc. gradually up same.

Leave draw, from NE. Asc. 109 ft. over N. slope.

Set an iron post 3 ft. long, 2 ins. in diam., 24 ins. in the ground for the cor. of secs. 8, 9, 16 and 17, with brass cap mkd.
         47.50
         54.00
58.85
         64.00
67.90
73.30
80.00
                                   brass cap mkd.
                                                                                               T34N R2E
S8 | S9
                                                                                             . s17 s16
                                                                                                       1927
                                                                                                                                                         from which,
                                   a yellow pine, 15 ins. in diam., brs. N.53°E., 31 lks. dist., mkd. T34N R2E S9 BT a yellow pine, 24 ins. in diam., brs. S.29°E., 82 lks. dist., mkd. T34N R2E S16 BT
                                   a spruce, 24 ins. in diam., brs. S.76°W., 69 lks. dist., mkd. T34N R2E S17 BT a fir, 10 ins. in diam., brs. N.24°W., 25 lks. dist., mkd. T34N R2E S8 BT
                             Land, mountainous.
                             Soil, rocky 3rd. rate.
Timber, yellow pine, fir, spruce and aspen.
Undergrowth, juniper brush.
                             East, on true line, bet. secs. 9 and 16. Over mountainous land, thru heavy timber and scattering
                                   undergrowth.
                             Asc. gradual NW slope.
                            Ridge, brs. NE-SW. Over level top.

Desc. 32 ft. over gradual SE slope.

Draw, course SW. Asc. 63 ft. over W. slope.

Spur, slopes SE. Desc. 151 ft. over NE slope.

Draw, course SE. Asc. 17 ft. over SW slope.

Spur, slopes SE. Desc. 61 ft. over E. slope.

Draw, course S. Asc. 58 ft. over W. slope to

Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in

the ground for the $\frac{1}{4}$ sec. cor. of secs. 9 and 16, with

brass can mkd.
            2.00
             5.00
            9.60
         18.00
          34.00
          35.00
37.00
         40.00
                                   brass cap mkd.
                                                                                                      s 9
s 16
```

1927

from which,

Survey of Part of the Subdivision Lines of T.34 N., R.2 E. (Grand Canyon National Park Boundary.)

 and the lates of the transfer of the lates of the lates of	17
Chains	
	a spruce, 10 ins. in diam., brs. N.47°W., 14 lks. dist., mkd. $\frac{1}{4}$ S9 BT an aspen, .8 ins. in diam., brs. S.16°W., 7 lks. dist., mkd. $\frac{1}{4}$ S16 BT
42.40 56.00 69.75	Asc. gradual NW slope. Over level bench, brs. NE-SW. Desc. 180 ft. over SE slope. From which,
72.00	head of a spring, brs. S.404°W., 8 chs. dist. Genter of Big Springs Canyon, course SW. (about 3 chs. wide.) Open draw.
80.00	Asc. 108 ft. over NW slope.  Set an iron post 3 ft. long, 2 ins. in diam., 24 ins. in the ground for the cor. of secs. 9, 10, 15 and 16, with brass cap mkd.
	T34N R2E  S9 S10  S16 S15  1927 from which, a sprice, 10 ins. in diam., brs. N.61°E., 9 lks. dist., mkd. T34N R2E S10 BT anfir, 10 ins. in diam., brs. S.5°E., 17 lks. dist., mkd. T34N R2E S15 BT a spruce, 24 ins. in diam., brs. S.29°W., 33 lks. dist., mkd. T34N R2E S16 BT an aspen, 8 ins. in diam., brs. N.79°W., 14 lks. dist., mkd. T34N R2E S9 BT
	Land, mountainous. Soil, rocky 3rd. rate. Timber, yellow pine, fir, spruce and aspen. Undergrowth, juniper brush.
35.80 40.00	East, on true line, bet. secs. 10 and 15.  Over mountainous land, thru heavy timber and scattering undergrowth.  Asc. 222 ft. over NW slope.  Spur, slopes gradually to SW.  Desc. gradually along S. slope.  Set an iron post 3 ft. long, 1 in. in diam., 20 ins. in the ground to bedrock, raise a md. of stone around post, with brass cap mkd.
	1927 from which, a spruce, 12 ins. in diam., brs. N.54°W., 37 lks. dist., mkd. ½ S10 BT a yellow pine, 24 ins. in diam., brs. S.35°W., 7 lks. dist., mkd. ½ S15 BT
51.00 80.00	Asc. gradual SW slope.  Bench, brs. NE-SW. Over level top.  Set an iron post 3 ft. long, 2 ins. in diam., 24 ins. in the ground for the cor. of secs. 10, 11, 14 and 15, with brass cap mkd.
	#34N R2E

Survey of Part of the Subdivision Lines of T.34 N., R.2 E. (Grand Canyon National Park Boundary.)

Chains

18

an aspan, 8 ins. in diam., brs. N.2°E., 8 lks. dist., mkd. T34N R2E S11 BT a spruce, 14 ins. in diam., brs. S.S.E., 16 lks. dist., mkd. T34N R2E S14 BT an aspen, 8 ins. in diam., brs. S.55°W., 50 lks. dist., mkd. T34N R2E S15 BT an aspen, 10 ins. in diam., brs. N.76°W., 8 lks. dist., mkd. T34N, R2E S10 BT

Land, mountainous. and level. Soil, rocky 3rd. rate. Timber, aspen, fir, yellow pine and spruce. Undergrowth, juniper brush.

East, on true line, bet. secs. 11 and 14. Over mountainous land, thru heavy timber and scattering undergrowth.

Asc. 46 ft. on gradual slope over bench top.

35.00 40.00 Desc. gradual SE slope to
Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in
the ground for the 4 sec. cor. of secs. 11 and 14, with brass cap mkd.

4 S 11

1927 from which, a yellow pine, 18 ins. in diam., brs. N.44°E., 54 lks. dist., mkd. ½ Sll BT a fir, 28 ins. in diam., brs. S.79°E., 28 lks. dist., mkd. ½ Sl4 BT

46.30

Desc. 32 ft. over SE slope.
Draw, course SW. South fork of Big Springs Canyon.
Asc. 116 ft. over NW slope.
Over broad ridge, bears NE-SW.

62.30

Leave ridge, desc. 114 ft. over SE slope. Draw, course SE. Asc. 28 ft. over SW slope. Desc. 36 ft. over SE slope to 66.00

73.00

1323 13

75.00 Intersect the cor. of secs. 11, 12, 13 and 14, hereinbefore described.

> Land, mountainous and level. Soil, stony 3rd. rate. Timber, aspen, fir, spruce and yellow pine. Undergrowth, juniper brush.

#### General Description.

The lands surveyed are mountainous in character and range in elevation from 8500 to 9000 ft. above sea level.

The drainage is chiefly to the Southwest.
The soil is generally a stony 3rd. rate, black loam and about 2 ft. down to bedrock.

The timber consists of a fine grade of fir, yellow pine, spruce and aspen.

The undergrowth is chiefly juniper brush and locust. The tops of the benches and on the N. slopes are covered

with dead, fallen timber.
The springs found, except Tipover Spg., in sec. 18, have intermittent flows of water.

Section 13 and the notth two tiers of sections of T.34 N. R.2 E. are within the Kaibab National Porest and the Grand Canyon National Game Preserve. The remainder of the township is within the Grand Canyon National Park. No settlers reside in this vicinity.

A good road, over which many tourists travel during the favorable weather months, crosses the East bdy. of this Tp., leading to Point Sublime, which overlooks the Grand Canyon of the Colorado River.

A road branches from this road in the SW. cor. of the Tp. and leads to Tipover Spring and other points to the Jest.

There is no evidence of valuable mineral deposits.

About one half mile south of the ½ sec.cor.of secs.ll and l¼ is a lake of water, about 5 chs.in diam.

Another lake is situated at about the center of sec.l2.

Many deer abound in this region during the favorable grazing months.

The continued satisfactory adjustment of the instrument throughout the surveys described in the foregoing notes is indicated from field tests of same described in book "D" of this group.

BOOK 3862

4-680

#### FIELD ASSISTANTS.

Benjamin J. Kinsey, U.S. Surveyor NAMES. CAPACITY. Elliott Pierson 1st Chainman Bert Wells 2nd Chainman Clair Pierson Flagman

CERTIFICATE OF UNITED STATES SURVEYOR.	
I. Benjamin J. Kinsey U.S. Surveyor, hereby certify upon honor that, in purs	uance
of special instructions received from the District Cadastral Engineer, for Group 146, Arizona.	
bearing date of thelth day of, 1927 , I have well, faithfully, and	
in my own proper person, and in strict conformity with said instructions, the Manual of Surveying In	
tions, and the laws of the United States, surveyed all those parts or portions of	
the EAST Boundary	
NORTH Boundary	
and	
SUBDIVISION Lines of	
Township 34 North, Range 2 East of the Gila and Sal	<u>t</u> ,
River Base and Meridian, in the State of Arizona, which are represent	ted in
and by diagram on page 1 hereof the foregoing field notes as having been executed by me, and under my direction; and that all the corr	
said survey have been established and perpetuated in strict accordance with the Manual of Surveying In	ıstruc-
tions, and the special written instructions of the District Cadastral Engineer, for Group 146, A	Irizona,
and in the specific manner described in the field notes, and that the foregoing are the original field n	otes of
such survey.	
Place: Phoenix, Arizona.	rveyor.
Date: April 18, 1928.  APPROVAL.	. \
AFFROVAL.	
Office of the U.S. Suffery is or of Surveys,	
Denver, Colo., November 8	, 19 <b>2</b> 9
The foregoing field notes of the survey oftheEAST_Boundary	
NORTH Boundary and	
Part of the SUBDIVISION Lines (Grand Canyon National Park Bdy.)	
of	•
Township 34 North, Range 2 East	
of the Gila and Salt River Base and Meridian, in the State of A	riz.
executed by Benjamin J. Kinsey, U.S.Surveyor	
under his special instructions dated May 11, 1927 for Group 146, Arizona, having	ng been
critically examined, and the necessary corrections and explanations made, the said field notes, and the	surveys
they describe, are hereby approved.  U.S.S.Upervisor of	Similarde
	surveys.
I certify that the foregoing transcript of the field notes of the above described surveys in	
has been correctly copied from the original notes on file in this of	<del>lee.</del>

CERTIFICATE OF UNITED STATES SURVEYOR.