BOOK 3523 Book "G"

# FIELD NOTES

#### OF THE RETRACEMENT TOF

| :  | AND OF THE SURVEY OF  |           |
|--|---|-----------|
|  |   |           |
|  | the East boundary, and  |           |
|  |   |           |
|  | Subdivision lines of  |           |
|  |   |           |
|  |   |           |
|  |   |           |
|  | Fractional Township 42 North, Range 14 West,  |           |
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|  | EXECUTED BY   |           |
| <b>9</b>   | EXECUTED BY   |           |
|  | EXECUTED BY  Joseph P. Davis, U. S. Cadastral Engineer,   |           |
| ,  | Joseph P. Davis, U. S. Cadastral Engineer,  |           |
|  |   |           |
|  | Joseph P. Davis, U. S. Cadastral Engineer,  |           |
| In the State of                                    | Joseph P. Davis, U. S. Cadastral Engineer,  |           |
|  | Joseph P. Davis, U. S. Cadastral Engineer,  | , 19      |
|  | Joseph P. Davis, U. S. Cadastral Engineer, and Claude F. Warner, U. S. Transitman,  | , 19      |
| In the capacity of                                 | Joseph P. Davis, U. S. Cadastral Engineer, and Claude F. Warner, U. S. Transitman,  |           |
| In the capacity of                                 | Joseph P. Davis, U. S. Cadastral Engineer,  and Claude F. Warner, U. S. Transitman,  of U. S. Surveyor S, under Special Instructions dated September 29,  United States Surveyor General to govern surveys included in  | Gra       |
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3523

#### INDEX DIAGRAM.

| Towns     | hip |     | Range    |            |    |
|-----------|-----|-----|----------|------------|----|
| R         | 5   | 4   | <b>3</b> | 2          |    |
| 7         | 8   | 9   | 10       | <b>1</b> 1 | 12 |
| 18        | 17  | 76  | 18       | 14         | 18 |
| 19        | 20  | 301 | 322      | 23         | 24 |
| 30        | 36  | 28  | 27       | 26         | 25 |
| <b>91</b> | 82  | 88  | 84       | 85         | 36 |

Book "G"

Index Diagram

Fractional Township 42 North, Range 14 West



\_\_\_\_\_ Lines retraced under this Group

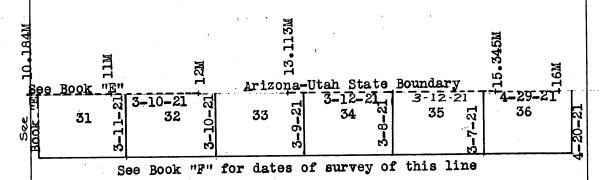
\_\_\_\_\_ Lines resurveyed under this Group

Lines surveyed under this Group

\_\_\_\_\_ Accepted surveys.

Date Diagram

Fractional Township 42 North, Range 14 West,



On the above diagram:

Black lines indicate surveys, dotted black lines indicate retracements, and dot and dash black lines indicate resurveys, executed by

Joseph P. Davis, U. S. Cadastral Engineer,
and red lines indicate surveys, and dotted red lines indicate

retracements, executed by <u>Claude F. Warner</u>. U. S. Transitman, all on dates shown thereon.



Retracements and surveys hereinafter described executed by J. P. Davis, U. S. Cadastral Engineer and C. F. Warner, U. S. Transitman, on dates shown on diagram on page 1 hereof, using respectively Buff light mountain transit No. 10125 and Young and Sons light mountain transit No. 8532. For description of instruments and certificate of approval, see Book "A".

Unless otherwise specified, all measurements are made with a Lufkin steel tape, 5 chs. in length, compared with a Chesterman standard steel tape and found forrect. The measurements are made on the slope, the vertical angles determined and the slope measurements properly reduced to true horizontal distances.

Field Test of Instrument No. 8532.

Examine the adjustments of the transit and correct all errors; then, to test the solar apparatus, by comparing its indications, resulting from solar observations made during a.m. and p.m. hours, with a meridian determined by observations on Polaris at elongation, proceed as follows:

March 5, 1921. Atk camp in sec. 8, T. 41 N., R. 14 W. G. and S. R. B. and M., lat. 36°58'N., long. 113°50½'W. at 8 hrs. 35.1 m. p.m., l.m.t., observe Polaris at western elongation, in accordance with the Manual of Instructions, and mark a point in the line thus determined by a tack in a stake, firmly driven in the ground 5 chs. N. of station.

March 6, 1921, At 8 hrs. 0 m., a.m., l.m.t., and lay off the azimuth of Polaris, 1°23½ to the east, and mark the true meridian thus determined by a tack in a stake, firmly driven in the ground, 5 chs. N. of station.

At 9 hrs. 0 m., a.m., l.m.t., set off 36°58'N. on the lat. arc; 5°40'S. on the decl. arc; and determine a meridian with the solar, which agrees with the true meridian.

At apparent noon, with the lat. arc unchanged, tobserve the sun. on the meridian; the resulting decl. is 5°37½'s, which is the computed decl. of the sun.

At 3 hrs. 0 m., p.m., l.m.t., with the lat. arc unchanged set off 5°34'S. on the decl. arc and determine a merician with the solar, which agrees with the true meridian

As all of the solar observations during the usual hours of solar work come within 1'30" of the true meridian, conclude that the adjustments of the solar are satisfactory.

Field Test of Instrument No. 10125. Examine the adjustments of the transit and correct all errors; then, to test the solar apparatus, by comparing its indications, resulting from solar observations made during a.m. and p.m. hours, with a meridian determined by observations on Polaris at elongation, proceed as follows:

April 17, 1921. At camp in sec. 2, T. 41 N., R. 13 W, G. and S. R. B. and M., lat. 36° 59'N., long. 113°40½'W, at 5hrs. 55.3m. a.m., l.m.t., observe Polaris at east ern elongation, in accordance with the Manual of Instructions, and mark a point in the line thus determined by a tack driven in a stake, firmly set in the ground, 5 chs. N. of station.

At 8 hrs. 0 m., a.m., 1.m.t., lay off the azimuth of Polaris, 1°24' to the west, and mark the true meridian thus determined by a tack in a stake, firmly driven in the ground, 5 chs. N. of a station.

- At 9h.0m., a.m., 1.m.t., set off 36° 59'N. on the lat.arc; 10°27½'N. on the decl.arc, and determine a meridian with the solar, which agrees with the true meridian.
- At apparent noon, with the lat.arc unchanged, observe the sun on the meridian; the resulting decl. is 10°30' N., which is the computed decl. of the sun.
- At 3h.0m.,p.m., l.m.t., with the lat.arc inchanged, set off 10°33'N. on the decl.arc, and determine a meridian with the solar, which agrees with the true meridian.
- As all of the solar observations during the usual hours of solar work come within 1'30" of the true meridian, conclude that the adjustments of the solar are satisfactory.

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Retracement of part of the Arizona-Utah State Boundary Line, (12th, 14th, 15th and 16 miles).

That part of the Arizona-Utah State Boundary Line, forming the North boundary of fracl. T. 42 J., R.14 W. was surveyed in March and April, 1901, by Howard B. Carpenter, U.S. Surveyor and Astronomer, and no retracement or resurvey of this part of said boundary is of record, except a retracement of the 11th mile, executed in No-vember, 1912, by Thomas B. Matthews, U.S.S. The 11th mile was again retraced March 11th, 1921, by Claude F. Warner, U.S. Transitman, as described in Book "E" of tais group.

The following notes describe a retracement of the 12th, 14th, 15th & loth miles of the State boundary.

The 12th mile monument is a limestone, 30xlox8 ins., firmly set in a mound of stone, marked "UTAH" on N. face, "37 NL" on E. face, "ARIZ." on S. face, and "12M" on W. face, and witnessed by a mound of stone, E. of monument, No bearing trees.

Thence,

West, on random line, on 12th mile.

Over mountainous land, thru. scattering undergrowth.

Descend 140 ft., over NW. slope.

10.80 Draw, course SE. Asc. 72 ft., over slide rock on E. slope. 15.80 Ridge, brs. NE and SW. Descend over very steep NW: slope. Chaining being impractic ticable, triangulate as described as follows; and as shown on the diagram hereon:

Measure a hase, North 19:50 chs.

Set flag ahead on random line, beyond the steep broken slopes.

From N. end of base, flag brs. S.72° 54' W.

Included angles are 72°54', 90°00' and 17°06', the sum of which is 180°00'.

Triangulated dist. on random soc. line is obtained by Tang. 72°54'x Base, or 3.25055x 19.50 = 03.39 chs., which added to 15.80 chs. gives 79.19 chs. W.from 12th mile mon. for the position of the flag.

79.19 Flag point of above described triangulation, on NW.slope,

about o00 ft. below 15.80 ch.point.
81.78 Intersect the 11th mile monument, which is a limestone, 12x10x10 ins. above ground, firmly set, marked "UTAH" on N.face, "37 NL" on E.face, "ARIZ." on S face and "llM" on W.face, and witnessed by a mound of stone, E. of monument. No bearing trees.

Land, broken and mountainous.

Soil, rocky, 4th rate.

No timber.

Undergrowth, sage brush.

True course and dist. on State bdy. bet. the 12th and 11th mile monuments thereon, are therefore, West, 81.78 chs.

The 13th mile point falling on face of cliff was not monumented in the survey of the State bdy., but was witnessed at a point 9.08 chs. E. therefrom, by a monumentedesignated in the record as the 13.113 mile monument.

This is a granite stone, 12x10x10 ins. above ground, firmly set, marked "UTAH" on N. face, "37NL" on E. face, "ARIZ." on S. face, and "13.113M" on W. face, and witnessed by a mound of stone E. of cor. No bearing trees. Thence,

East, on a random line, on 14th and 15th miles.

Retracement of part of the Arizona-Utah State Boundary Line,

(12th, 14th, 15th and loth miles). chains. Over mountainous land, thru. scattering undergrowth, Measuring from 13th mile point, 9.08 chs. W. of the 13.113 mile monument. The surface in the 14th and 15th miles is extremely rough and broken, and chaining of same would be impracticable; therefore, make a series of triangulations between the 13.113 mile monument and the 15.345 mile monument, as described as follows, and as shown on the diagram hereon. The 14th mile point was neither monumented or witnessed according to the record of the State Boundary survey, and the 15th mile point was inaccessible, and was witnessed at a point 27.00 chs. East therefrom by a monument designated in said record as the 15.345 mile monument. EAST -27.50 cm. Act Sa - N.67.19.E.T f secs. 243 and Frac. socs, 34435 From 13.113 mile mon. indicated on diagram at "A," measure a mase, South 22.00 chs. to point "B." Set flag ahead on random line at point "C." Bearing of "BC" = N.67° 19' Z.

Included angles of triangle "A3C" are 90°00', 67°19', and 22°41', the sum of which is 180°00'.

Distance from "A" to "C" is obtained by tang. 67°19'x Base "AB" or 2.39253 x 22.00 = 52.64 chs., which added to 9.08 chs. gives 61.72 chs. East from 13 mile point for flag point "C."

Flag point "C" of triangle "ABC" from which,
Measure a Base, South, 10.00 chs. to point " 61.72 Set flag ahead on random line at point "E." Bearing of "DE" = N.74°14'E.
Included angles of triangle "CDE" are 90°00',74°14',and 15°46', the sum of which is 180° 00'.
Distance from "C" to "E" is obtained by tang. 74°14'x Base "CD" or 3.54179 x 10.00 = 35.42 chs., which added to 61.72 chs. gives 97.14 chs. East from 13 mile point for flag point "E." 79.512 (Proportional measurement) Point for 14th Mile monument inaccessible. 97.14 (88.06 chs.E.from 13.113 mile mon.) Flag point "E" of triangle "CDE" which is set on random State Boundary at 55.70 chs. North from cor. of secs. 2 and 3, and fracl. secs.34 and 35 on S. bdy.of fracl. T. 42 N., R. 14 W., indicated on diagram at "F." Set flag ahead on random line at 15.345 mile mon. indicated on diagram at point "G." Bearing of "FG" = N.58°00'E.
Included angles of triangle "EFG" are 90°00', 58°00' and 31°54', the sum of which is 180°00'. Dist.from "E" to "G" is obtained by tang. 58°00'x Base "EF" or 1.00057 x 55.70 = 89.49 chs., which added to 97.14 chs. gives 180.63 chs. East from 13 mile point or 177.55 chs. Mast from 13.113 mile monument for position of flag point "G" at the 15.345 mile monument The 15,345 mile monument being 27.60 chs. East from 15 mile point, the position of said mile point is ob-

tained by 180.03 chs. - 27.60 chs. = 159.03 chs. East

The true course and dist. for each of the 14th and 15th

from 13 mile point.

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Retracement of part of the Arizona-Utah State Boundary Line (12th, 14th, 15th and loth miles). Chains miles are therefore, East, 79.512 chs. 159.03 Point for 15th mile monument inaccessible. Land, mountainous. Soil, rocky, 4th rate. No timber. Undergrowth, sage brush. From 15th mile point, which is inaccessible, East on random line, on loth mile. Over mountainous land, thru. scattering undergrowth.
Measurement by triangulation hereinbefore described.
27.60 (Record dist.) Intersect flag point "G" of triangle "EFG" shown on diagram in connection with retracement of 14th and 15th miles, hereinbefore described, point is at the witness monument to 15th mile point, designated in record, as the 15.345 mile monument, which is a limestone 36xlox6 ins., firmly set in a mound of stone, marked "UTAH" on N.face, "37NL" on E. face, "ARIZ." on S. face, and "15.345M" on W.face, and witnessed by a mound of stone 2. of monument. No bearing trees. Continue line and measurement by chaining. Ascend 170 ft.
45.60 Descend 80 ft.
58.60 Ascend 25 ft.
73.00 Descend 135 ft. to 87.57 (59.97 chs. E. of 15.345 mile mon.) Intersect the 16th. mile monument, which is a limestone, llx10x7 ins.above ground, firmly set, marked "UTAH" on N. face, "37NL" on E. face, "ARIZ." on S. face, and "loM" on W. face, and witnessed by a mound of stone E. of monument. Nò bearing trees. Land, mountainous. Soil, rocky, 4th rate. No timber. Undergrowth, sagebrush. True course and dist. of the loth mile are therefore, wast 87.57 chs. True course and dist. between the 15.345 mile monument

and 'the loth mile monument are therefore, East, 59.97

chs.

Survey of Last bdy. of fracl. Township 42 North, Range 14 West. Chains. From the cor. of Ts. 41 N., Rs. 13 and 14 W., and fracl. Ts. 42 N., Rs. 13 and 14 W., described in Book "F," North, bet. fracl. secs. 31 and .36. Over very mountainous land, thru. scattering undergrowth. Ascend 1400 ft., over cliffs. Measurement of 27.01 chs. end 1400 ft., over cliffs. Measurement of 27.01 chs. computed from traverse thru. fracl. sec. 31, fracl. T. 42 N., R.13 W., as described in Book "H."

26.62 Rim of cliff, brs.N. 60°W. and S. 60°E. Descend 40 ft.

27.01 End of traverse. Continue line and measurement, by chaining. Head of draw, course N.75°E. Asc. 15 ft.

Descend 25 ft. to

40.00

Set an iron post, 3 ft.long, 1 in. in diam., 8 ins. in the ground, with marked stone, for 2 sec.cor., and raise a mound of stone around post, with brass cap, marked S36 S31 Descend 45 ft. 47.00 Draw, course E. Ascend 90 ft.to 55.78 Intersect the Arizona-Utah State Boundary Line, 10.75 chs. E. of the loth mile monument hereinbefore described. At the point of intersection, set an iron post, 3 ft.long, 3 ins. in diam., 7 ins. in the ground, with marked stone, for closing cor. of fracl. Ts. 42 N., Rs. 13 and 14 W.; and raise a mound of stone around post, with brass cap, marked HATU ' \$30 \$31 R14W R13W T42N CC 1921 Land, mountainous. Soil, rocky, 4th rate. No timber.

Undergrowth, sage brush.

8.

Boundaries of Fract. Township 42 North, Range 14 West.
Latitudes, departures, and closing errors.

|                              |               |                           | •               |            |       |                 | * ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` |
|------------------------------|---------------|---------------------------|-----------------|------------|-------|-----------------|---|
| Line des                     | ignated. True |                           | Dist.           | Latitudes. |       | Departures.     |   |
|                              | <b>O</b> 1    | bearing.                  | • .             | N.         | S.    | Đ.              | W.                                      |
| South bo                     | undarý,       | N.89°59'W.                | <b>,47</b> 9•46 | .14        | •     | 7               | 4 <b>7</b> 9.46                         |
| West bou                     | ndary,        | North,                    | <b>5</b> 5•50   | 55•50      | ,     |                 |   |
| North bot<br>(ArizU<br>State |               | dast,                     | 479• <b>6</b> 7 |            |       | 479.67          |   |
| dast bou                     | ndary,        | South,                    | 55.78           | •          | 55.78 |                 | •                                       |
| Converge                     | ncy,          |                           |                 |            | A A   | .06             |   |
| Totals,                      |               | » ( • · · ; • ·           |                 | 55.64      | 55.78 | 479.73          | 479 • 46                                |
| •                            |               | in latitude<br>in departu |                 |            | 0.14  | 4 <b>7</b> 9.46 |   |

Survey of Subdivision lines of fracl. Township 42 North, Cange 14 West.

From the cor. of secs. 1 and 2, and fracl. secs. 35 and 36, on the S. bdy. of the Tp., described in Book "F," North, on true line, bet. fracl. secs. 35 and 36. Over mountainoud land, thru. scattering undergrowth. Ascend 640 ft., over SW. slope, to \( \frac{1}{4} \) sec.cor.

1.50 Wash, 50 lks.wide, course S.45°W.

Set an iron post, 3 ft.long, 1 in. in diam., o ins. in the ground, with marked stone, for \( \frac{1}{4} \) sec.cor., and raise a mound of stone around post, with brass cap, marked.

835 836

Ascend 330 ft., along W.slope, to

Intersect Arizona-Utah State Boundary Line, 9.33 chs. W. of the 15.345 mile monument, hereinbefore described, and 0.18.27 chs. E. of 15th mile point, which is not monumented.

At the point of intersection, set an iron post, 3 ft. long, 2 ins. in diam., on bed rock, with marked stone for closing cor. of fracl.secs.35 and 36, and raise a mound of stone around post, with brass cap, marked

> UTAH 335 336 742 N R14W C C 1921

Land, mountainous. Soil, rocky, 4th rate. No timber. Undergrowth, sagebrush.

From the cor. of secs. 2 and 3, and fracl. secs. 34 and 35, on the S bdy.of Tp., described in Book "F," North, on true line, bet. fracl.secs. 34 and 35. Over rolling land, thru. scattering undergrowth. Ascend 11 ft.

1.40 Point of short spur, slopes & Desc. 60 ft., over NE. slope 10.00 Foot of descent, brs. NW and SE. Thence over level land. 20.10 Center of wash, lch. wide, course S. oo° E. Leave level, and enter mountainous land. Ascend 110 ft.

30.00 Point of spur, slopes E. Descend 20 ft. 37.30 Ascend 30 ft. to 40.00 Set an iron post, 3 ft.long, 1 in. in d Ascend 30 ft.to
Set an iron post, 3 ft.long, 1 in. in diam., on bed rock,
with marked stone, for 2 sec.cor., and raise a mound
of stone around post, with brass cap, marked

Ascend 20 ft.

.43.70 Point of spur, slopes S.70°E. Descend 30 ft. 48.70 Ascend 125 ft. over steep S.slope, to

55.10 Set an iron post, 3 ft.long, 2 ins. in diam. on bed rock, with marked stone, for witness cor. to closing cor. of fracl. secs. 34 and 35, and raise a mound of stone around post, with brass cap, marked

UTAH 334 835 T42N R14W 1921

Subdivision lines of fracl. Township 42 North. Range 14 West. Chains. 55.70 Intersect the Arizona-Utah State Bdy., 88.06 chs. E. of the 13.113 mile mon., hereinbefore described, and 17.622 chs. E. of the 14th mile point, which is neither monumented or witnessed. This point of intersection falls on slide rock on face of small cliff, where closing cor. cannot be monumented. in suitable manner; therefore, witness cor. to closing cor. is established at 0.00 chs. S. as hereinbefore de-This sec. line is the base of a triangulation scribed. used in measurement on state bdy., as hereinbefore described. Land, rolling, level and mountainous. Soil, rocky, 4th rate. No timber. Undergrowth, greasewood and sagebrush. From the cor. of secs. 3 and 4, and fracl. secs. 33 and 34, on the S bdy. of the Tp., described in Book "F,"
North, on true line, bet. fracl. secs. 33 and 34. Over mountainous land, thru. scattering undergrowth. Ascend 95 ft. 3.00 Point of spur, slopes E. 7.00 Point of spur, slopes E. Descend 120 ft.
10.00 Foot of descent, brs. SE. and W. Thence over level la:
23.10 Center of wash, 125 lks.wide, course S.30°E.
31.90 Leave level and enter mountainous land. Asc. 70 ft.to Thence over level land. 40.00 Set an iron post, 3 ft.long, 1 in. in diam. on bed rock, with marked stone, for \(\frac{1}{2}\) sec. cor., and raise a mound of stone around post, with brass cap, marked Ascend 175 ft.to
55.73 Intersect the Arizona-Utah State Boundary Line, 8.18 chs. E. of the 13.113 mile mon., hereinbefore described, and 17.20 chs. E. of the 13th mile point, which is not monu At the point of intersection, set an iron post, 3 ft.long 2 ins. in diam., on bedrock, with marked stone, for closing cor. of fracl. secs. 33 and 34, and raise a mound of stone around post, with brass cap, marked UTAH \$33 \$34 T42N R14W C C 1921 Land, mountainous and level. Soil, rocky, 4th rate. No timber. Undergrowth, yucca, sagebrush and cactus. From the true point for cor. of secs. 4 and 5, and fract. secs. 32 and 33, on the S bdy. of the Tp. witnessed 0.30 chs. N. 89°59'W., as described in Book "F,"

North, on true line, bet. fract. secs. 32 and 33. Over mountainous land, thru. scattering undergrowth.
Ascend 200 ft., over steep S.slope.

13.97 Top of cliff, brs. SE. and W., facing S.at top of ridge, with

Descend 75 ft., over N. slope. 27.00 Wash, 50 lks.wide, course S.70°B. Ascend 50 ft. over

same bearing.

slope.

Subdivision lines of fracl. Township 42 North, Range 14 West.

Chains. **3**3.85

Descend 35 ft.to

40.00 Set an iron post, 3 ft.long, 1 in. in diam., on bed rock, with marked stone, for 4 sec.cor., and raise a mound of stone around post, with brass cap, marked

Ascend 185 ft., over SE.slope, to

55.60 Intersect the Arizona-Utah State Boundary Line, 17.28 chs.

E.of the 12th Mile mon., here inbefore described. At the point of intersection, set an iron post, 3 ft.long '2 ins. in diam., on bed rock, with marked stone, for closing cor. of fracl. secs. 32 and 33, and raise a mound of stone around post, with brass cap, marked

Land, mountainous. Soil, rocky, 4th rate. No timber.

Undergrowth, sagebrush and cactus.

From the cor. of secs. 5 and 6, and fracl. secs. 31 and 32, on the S. bdy. of the Tp., described in Book "F," North, on true line, bet.fracl.secs.31 and 32. Over mountainous land, thru. scattering undergrowth. Ascend 92 ft., over SW. slope.

8.40 Descend 45 ft.
15.20 Ascend 295 ft.
Top of ridge, brs. N. 45°W. and S. 45°E. Descend 255 ft., over NE. slope, to

40.00 Set an iron post, 3 ft.long, 1 in. in diam., on bed rock, with marked stone, for \( \frac{1}{4} \) sec. cor., and raise a mound of stone around post, with brass cap, marked

Ascend 20 ft.

41.60 Top of same ridge, brs. N.s. and SW. Descend 345 ft., over

NW.slope, to

Intersect the Arizona-Utah State Boundary Line, 18.88 chs.
E. of the 11th Mile Monument, described in Book "E."
At the point of intersection, set an iron post, 3 ft.
long, 2 ins.in dism., on bedrock, with marked stone,
for closing cor. of fract. secs. 31 and 32, and raise a
mound of stone around post, with brass cap, marked

| UTAH        |      |  |
|-------------|------|--|
| S31<br>T42N | S32  |  |
| T4211       | R14W |  |
| c  c        |      |  |
| 1921        |      |  |

Land, mountainous. Soil, rocky, 4th rate. No timber. Undergrowth, yucca, sagebrush and cactus. Subdivision lines of fracl. Township 42 North, Range 14 West.

Chains.

The continued satisfactory adjustment of solar transits Nos. 8532 and 10125 during the survey of this fractional township is indicated from field tests as described in Books "H" and "J" respectively.

#### GENERAL DESCRIPTION.

This fractional township consists of rough, mountainous, rocky, 4th rate land, draining to the south. Beaver Dam mountain is in the W.half of sec. 31. There are no roads or settlers in the township, nor is any of this land of any value for agricultural purposes. A sparse growth of yucca, sagebrush and cactus is found over the township.

There is no permanent running water, and no evidence of valuable mineral.

90K 3523

## FIELD ASSISTANTS. to

| Claude F. Warner, U. S. Transitman. |  |  |  |  |
|-------------------------------------|--|--|--|--|
| NAMES.                              | CAPACITY.                                    |  |  |  |
| Gilbert N., Hunter,                 | 1st chainman,                                |  |  |  |
| Kanute Jensen,                      | 2nd chainman,<br>cornerman, axman,           |  |  |  |
| Robert Barnum,                      |  |  |  |  |
|                                     |  |  |  |  |
| Asahel J. Barnum,                   | flagman.                                     |  |  |  |
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# CERTIFICATE OF UNITED STATES TRANSITUANS.

14

| I, Claude F. Warner, U. S. Transitman,, hereby certify upon honor that, in pursuance   |
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| of special instructions received from the U. S. Surveyor General for Group 112, Arizona,   |
| bearing date of the29th day ofSeptember, 1920 , I have well, faithfully, and truly   |
| in my own proper person, and in strict conformity with said instructions, the Manual of Surveying Instruc-   |
| retraced tions, and the laws of the United States, surveyed all those parts or portions ofthe_Arizona=UtahState_   |
| Boundary, and surveyed all those parts or portions of the Subdivision lines of   |
|  |
| Fractional Township 42 North, Range 14 West,   |
|  |
| of the Gila and Salt River   |
| Base and Meridian, in the State of, which are represented in   |
| and by diagram on page 1 hereof<br>the foregoing field notes, as having been executed by me, and under my direction; and that all the corners of   |
| retracement and said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instruc-   |
| tions, and the special written instructions of the U. S. Surveyor General, forGroup_112, _Arizons,   |
| and in the specific manner described in the field notes, and that the foregoing are the original field notes of retracement and,   |
| such survey. Telena Mont   |
| Place - Jan 19, 1922  Date - Jan 19, 1922  U. S. Transitman  |
|  |
| <del>-APPROVAL</del> .   |
|  |
| OFFICE OF THE UNITED STATES SURVEYOR GENERAL,  |
| OPPICE OF THE UNITED STATES SURVEYOR GENERAL,  |
|  |
| <del>, 191</del>   |
| <del>, 191</del>   |
| <del>, 191</del>   |
| <del>, 191</del>   |
| The foregoing field notes of the survey of   |
| The foregoing field notes of the survey of   |
| The foregoing field notes of the survey of   |
| The foregoing field notes of the survey of —   |
| The foregoing field notes of the survey of   |
| The foregoing field notes of the survey of   |
| The foregoing field notes of the survey of  executed by  under his special instructions dated  oritically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.  -U. S. Surveyor General. |
| The foregoing field notes of the survey of   |
| The foregoing field notes of the survey of  executed by  under his special instructions dated  oritically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.  -U. S. Surveyor General. |

BOOK 3523

### FIELD ASSISTANTS. ato

| Joseph P. Davis, U.S. Cadastral Engineer. |   |  |
|---|---|--|
| NAMES.                                    | CAPACITY.                               |  |
| Roger F. Wilson,                          | lst chainman,                           |  |
| Irving Isom,                              | 2nd chainman,                           |  |
| Thos. J. Lund,                            | cornerman,                              |  |
| Howard H. Briggs.                         | axman,                                  |  |
|   | flagman.                                |  |
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| ineer pr, hereby certify upon honor that, in pursuance  |
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| r General for Group 112, Arizona,   |
| ber , 1920, I have well, faithfully, and truly  |
| th said instructions, the Manual of Surveying Instruc-  |
| hose parts or portions of _the Arizona-Utah   |
| rts or portions of the East boundary of   |
|   |
| 42 North, Range 14 West,  |
| of the Gila and Salt River  |
| izona , which are represented in  |
| ne, and under my direction; and that all the corners of   |
| trict accordance with the Manual of Surveying Instruc-  |
| Surveyor General for Group 112, Arizona,  |
| s, and that the foregoing are the original field notes of   |
| Dragon / O Sand   |
| U. S. Cadastral Engineer  |
|   |
|   |
| THE UNITED STATES SURVEYOR GENERAL,   |
| Phoenix, Ariz., January 25, 1922  |
| cement of part of the Arizona-Utah State  |
| ) and of the survey of the East boundary,   |
|   |
| n, Range 14 West,   |
| Base and Meridian,  |
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|   |
| Engineer, and Claude F. Warner, U.S. Transit  |
| Engineer, and Claude F. Warner, U.S. Transit  |
| Engineer, and Claude F. Warner, U.S. Transit  |
| Engineer, and Claude F. Warner, U.S. Transit  1920 for Group 112, Arizona 191, having been explanations made, the said field notes, and the surveys  U.S. Surveyor General. |
|   |