BOOK 2475

Field Notes

of the

BOOK 2475

Resurveys and Retracements under Group No. 17, Arizona.

- 7 South Boundary Township 22 South, Range 29 East,
- East Boundary Township 22 South, Range 29 East, .
- y South Boundary Township 21 South, Range 30 East,
- South Boundary Township 21 South, Range 31 East,
- > East Boundary Township 21 South, Range 31 East,
- West Boundary fract. Township 24 South, Range 29 East, 4-
- > Arizona-New Mexico Boundary Line,371 M.-378 M-Mon.71.
- west Boundary Township 19 South, Range 18 East,
- South Boundary Township 18 South, Range 18 East,
- Portion of West Boundary Township 23 South, Range 15 East, &
- Portion of South Boundary Township 22 South, Range 15 East,

Of the Gila and Salt River Base and Meridian, In the State of Arizona.

EXECUTED BY

Jesse B. Wright, and William H. Elliott,

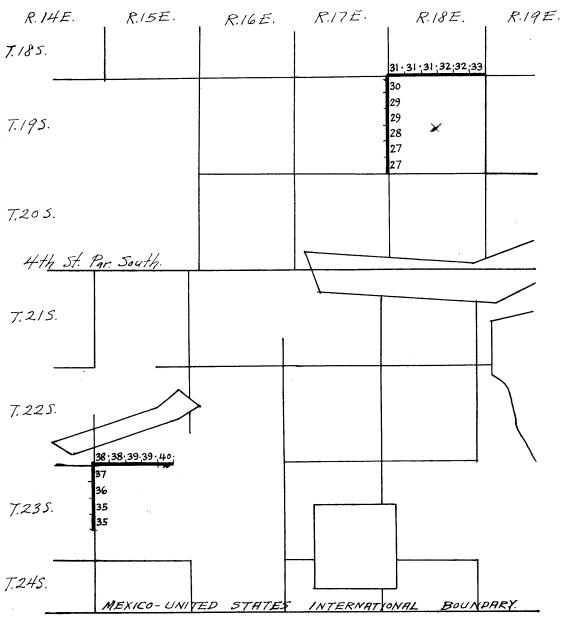
In the capacity of U. S. Surveyors, under special and supplemental instructions dated October 6, 1911, November 27, 1912, Jan. 13, 1913 and March 10, 1913, issued by the United States Surveyor General to govern surveys included in Group No.17, which were approved by the Commissioner of the General Land Office, Oct. 14, 1911, Dec. 5, 1912, Feb. 4, 1913 and March 10, 1913, pursuant to authority contained in the Act of Congress dated August 24, 1912.

Resurvey and Retracement commenced Oct.21, 1912.

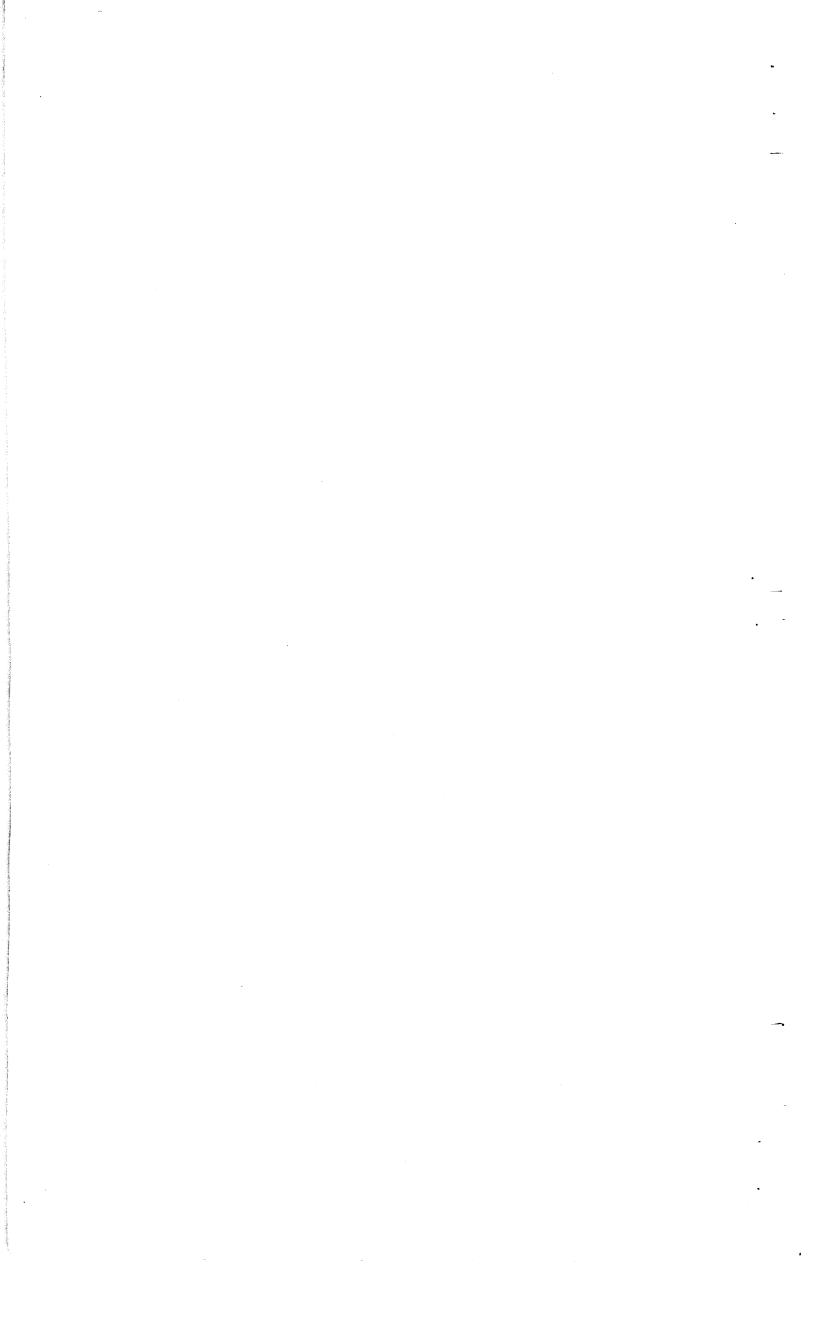
Resurvey and Retracement completed March 27,1913.

BOOK 2475

-Book"D" - This Book -----Accepted Borys. BOOK "B" -Book "G" Book No 2475



						
T.205.	R. 28 E.	R.29E.	R. 30 F.	R.31 E.	R.32E	
7.203.	24-th	St. Par. So	wth.			
				119		
						371 M.
T.215.				1 r		22
			11. 11. 11. 10.10.10		. 17	22 23
			7	14-14-14-13-13-13	574	23
7.225.			7		•	23 377 M.
			7			21 378 M
, .		. +	/ 8	•	18/2	,
			8		, ,	
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-026					ME	·
T.235.		•		·	m Z	
	Ì				ξ.	
	-	20			-	388M.
T.245.		19 19 ICO-UNITED S	TATES WITES	NATIONAL PR	•	25 25
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					Yon 73 Yon 72	



Chains. Resurveys and Retracements

BOOK under Group No. 17 begun Oct. 21, 1912, and executed jointly by Jesse B. Wright and William H. Elliott, U. S. Surveyors, Wright using transit No. 8145, and Elliott using transit No. 8492, both made by Young & Sons, with Smith patent solar attachments.

The plates of the instruments reading by two double verniers placed opposite to each other to l' of arc, which is also the least reading of the verniers of the lat. and declination arcs.

We establish temporary camp near the cor of secs. 3/4,33 &34 on 5. bdy of 7.225, R.29E which is above of T.225, R.29E. ground, marked and witnessed as described by the Surveyor General, and at this cor., we test and adjust levels, the standards, the lines of collimation and the lat. arcs of the instruments. Then, in order to test the solars by comparison of meridians determined thereby, with a true meridian as established

by observation of Polaris, we proceed as follows: At the above described cor., at 5h p.m., l.m.t., we set
off.31°28' N. on the lat. arcs, and 10°47'S. on the decl. arcs, and determine meridians with the solars, and mark the meridians thus determined by tacks in a stake driven firmly in the ground 5 chs. N. of our station, points marked W-1, and E-1, for transits Nos. 8145, and 8492 respectively. 1912. Oct. 21,

Oct. 22, 1912. At 5h 24m a.m., l.m.t., we observe Polaris at W. elong. in accordance with instructions in the "Manual", and mark the line thus determined by a tack in a stake driven firmly in the ground 6 chs." N. of our station.

At 7h 50m a.m., l.m.t., we set off the azimuth of Polaris $1^{\circ}21\frac{1}{2}$ to the East, and mark the true meridian thus determined by a tack in the Stake 5 chs. N. of our station, point marked \underline{P} , which point falls about .40 ins. and .35 ins. \underline{E} . of the points in the meridian as determined by the solars of instruments Nos. 8145, and 8492 respectively,

At 8h a.m., l.m.t., we set off 31°28 N. on the lat. arcs, and 11°02 8. on the decl. arc, and determine meridians with the solars, and mark the points in the meridians thus determined by tacks driven in the stake 5 chs. N. of our station, points marked W-2, and E-2, respectively. which points as determined by transits Nos. 8145 and 8492 fall about .55 ins., and .50 ins. E. of the point in the meridian as determined by observation of

Polaris. By p.m. & a. m. observations, Transit No. 8145 defines positions for meridians about 20" W., and 30" E., respectively of the meridian as determined by Polaris observation.

Transit No. 8492 defines positions for meridians about 18" W., and 26" E., respectively of the meridian as determined by Polaris observation.

These errors being no greater than the usual errors of observation, we conclude that the instruments are in satisfactory adjustment.

The magnetic bearing of the true meridian at 8h a.m. is N. 13° W.: the angle thus determined gives the magnetic declination as 13° E.

In order to test the measurement and alinement of the old exterior boundaries of surveys contemplated under Group No. 17, and properly re-establish the lost and obliterated corners thereon, before initiating any surveys therefrom, we proceed as follows,

From the above described cor., we re-trace, as per field notes furnished by the Surveyor General,

In the following notes the initials J. B. W. & W. H. E. indicate the lines run (by Jesse B. Wright and William H. Elliott, U.S. Surveyors, respectively

M Chains Re-survey South Boundary T. 22 S., R. 29 E. East, bet. secs. 3 & 34, on random line, Find the # sec. cor. 10 lks. N. of line, which is 139.84 a lava stone 14x10x6 ins. above ground, marked and witnessed as described by the Surveyor-General. From this \frac{1}{4} sec. cor. We run, East, on random line Find the cor. of secs. 2,3,34 & 35 on line, which is a lawa stone 18x6x6 ins. above ground, marked and witnessed as described by the Surveyor-General. . 40.39 From the above described cor., we run, East, bet. secs. 2 & 35. on random line

No trace of old cor. found after diligent search. Set

tempa cor. on line.

No trace of orig. cor. found after diligent search. ·40.00 .80.00 Set temp. cor., mound of stone on line. Thence we run, East, bet. secs. 1 & 36, on random line
No trace of originator. found after diligent search. 40.00 Leave mound of stone on line, and continue East, on random Find evident traces of orig. Tp. cor. 210 lks. N. of line, which is an old stake with traces of markings, .80.08 as described by the Surveyor-General, destroy old cor. & at same point Set a syenite stone 24x15x10 ins. 18 ins. in the ground at the orig. cor. point for re-established cor. of Tps. 22 & 23 S., Rs. 29 & 30 E., marked with 6 notches on N., S., E. & W. edges, and raise a mound of stone 3 ft. base, 2 ft. high S. of cor., from which, A prominent peak in Mexico brs. S. 21°53' E. Bunk Robinson Peak brs. S. 81°58' E. College peak brs. S. 89°23' W., N. edge. Niggerhead Peak brs. S. 27°05' W. Oct. 22, 1912. J.B.W. & W.H.E. Jan. 4, 1913. At 8h a.m., 1.m.t., at the cor. of Tps. 22 & 23 S.,
Rs. 29 & 30 E., as above re-established and described,
I set off 22°41½'S. on the decl. arc, and 31°28'N. on the lat. arc, and determine a meridian with the solar. Thence I run, S. 89°15' W., on a true line, bet. secs. 1 & 36. Over rolling land, through scrub mesquite.

Re-establish record a syenite stone 20x18x16 ins. 15 ins. in the ground 40.02 for \(\frac{1}{4} \) sec. cor., marked \(\frac{1}{4} \) on N. face, dig pits 18x18x12 ins. E. & W. of cor. 3 ft. dist., and raise a mound of earth 3\(\frac{1}{2} \) ft. base, 1\(\frac{1}{2} \) ft. high N. of cor.

80.04 \(\frac{1}{2} \) Set a syenite stone 16x6x4 ins. 11 ins. in the ground for cor. of secs. 1,2,35 & 36, marked with 1 notah on E. & 5 notches on W. edges, dig pits 18x18x12 ins. dig pits 18x18x12 ins. in each sec. 5 ft.dist., and raise a mound of earth 4 ft.base, 2 ft.high W.of cor. Land, rolling. Soil, 3rd rate, gravelly, dry, loose.
Dense greasewood, mesquite brush, sparse grass.

The resulting lat. is 31°28'N.

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60
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West, bet. secs. 5 & 32, on random line, (\$5,52 % J. T www. Over mts. land, asc. NE. slope. Ridge, brs. NNE. & SSW., desc. steep. Wash, 30 lks. wide, course N., asc. steep. Find traces of orig. ‡ sec. cor. 3 lks. N. of line, This cor. being very dilapidated, I destroy, and at the orig. cor. point I Set a syenite stone 16x12x8 ins. 11 ins. in the ground for $\frac{1}{4}$ sec. cor., marked from N. face, raise a mound of stone 2 ft.base, $1\frac{1}{2}$ ft.high N.of cor. The true course and distance of this a mile is €Nt 89°57' W. 40.08 chs. From this $\frac{1}{4}$ sec. cor. I run, West, measuring from said 4 sec. cor, on random line Over rough mts. land, asc. steep, stony NE. slope. Find traces of the orig. cor. of secs. 5,6,31 & 32, 4 above ground, marked as described by the Surveyor-General. This cor. I re-mark and re-set in orig.

40.12

40.12

Chains.

25.00

32.50 40.08

> lks. N. of line, which is a granite stone 14x6x6 ins. position with 5 notches on E. & 1 notch on W. edges, raise a mound of stone 2 ft.base, la ft.high W. of cor. Thedtrue course and distance of this last & mile is N. 89°57' W., 40.12 chs.

Over mts. land, asc. prec. stony NM. slope. College peak brs. S. 3 chs. to foot of apex, top of apex is about 7 chs. to S., an inaccessible jutting 12.00 granite crag. 14.00 Desc. prec. NW. slope. Find traces of orig. ½ sec. cor. 90 lks. to N. of line, which is a granite stone 14x6x6 ins. above ground, /40**.1**0 with faint markings. This cor. being small and badly weathered, I destroy,

From the cor. above described, I run, West, bet. secs. 6 & 31. on random line

and at the orig. cor. point I
Set a granite stone 24x14x10 ins. 18 ins. in the ground
for \(\frac{1}{4} \) sec. cor., marked \(\frac{1}{4} \) on N. face, and
raise a mound of stone 2 ft.base, 1\(\frac{1}{2} \) ft.high N.of cor.
The true course and distance of this \(\frac{1}{2} \) mile is \(\frac{1}{2} \). N. 88°42' W., 40.11/chs.

From this \frac{1}{4} sec. cor. I run, measuring from same, West, on random line

desc. NW. slope.

14.00 Head of gulch, course SW., asc. Spur, brs. SW. & NNE., desc. along S. side of spur. 28.00 32.00

Asc. SE. slope of hill. Find the orig. cor. of Tps. 128775. Rs. 28 & 29 E. , which is a granite stone 10x6x6 ins. above ground, marked and witnessed as described by the Surveyor-General, said cor. being 90 lks. N. of my line: and situated on top of a rocky knoll on spur, W. & E. True course and distance of this last & mile is N. 88°42' W., 40.13 chas.

Land, mts., very rough. Soil, 3rd rate, stony. Scrub oak, cedar, greasewood, cacti.

Jan. 4, 1913.

J. B.W.

J.B.W. & W.H.E.

Oct. 23, 1912.

At 8h a.m., l.m.t., at the cor. of Tps. 22 & 23 S.,

Rs. 29 & 30 E., as hereinbefore described,

We set off. 11.23½'S. on the decl. arc, and 31.28'N. on

the lat. arc, and determine a meridian with the solar

of transit No. 8145.

Thence we run,

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Chains,
            Scoo 25' E., on a true line, bet. secs. 1 & 6. Over mts. land, desc.
                                                                                                BOOK
                                                                                                           2475
            Gulch, 20 lks. wide. course E.
  1.50
            Gulch, 20 lks. wide, course E. To orig. 4 sec. com on line, a granite stone 10 x6×3 ins. above ground, heretofore described.
 35•40
 40.35
             This cor. we re-mark ton W. face in original position,&
                raise a mound of stone 2 ft.base, la ft.high W. of cor.
             'S. 0° 32' W., on a true line, measuring from 4 sec. cor.
            To orige core of secs. 1,6,7 & 12, ordered heretofore described.

This core we re-set, and re-mark in original position with 1 notch on Ne, and 5 notches on Seedges, and
. 40. 20
              raise a mound of stone 2 ft.base, lt ft.high W.of cor.
            Land, mts.,
            Soil, 3rd rate, stony, gravelly.
            Mesquite, cacti, fair grass.
           S. 0° 25' E., on a true line, bet.
                                                                      secs. 7 & 12.
               Over rolling land.
            Wash, 20 lks. wide, course SE. Old road, brs. ESE. & WNW.
 12.00
 38.50
40.04
            To orig. + sec. cor. a lava stone 8x8x5 ins above ground, heretofore described
            This cor. we re-mark 1 on W. face, and
               raise a mound of stone 2 ft.base, 12 ft.high W.of cor.
            Thence, •S. 0°45' E., on true line, measuring from 4 sec. cor.

Gulch, 100 lks. wide, course E.

To originary of secs. 7,12, 13 & 18, a lava stone 10×10×5 ins above

This cor. we re-mark with 2 notches on N., and 4 notches
17.00
40.24
               on S. edges, and
               raise a mound of stone 2 ft. base, l_2^{\frac{1}{2}} ft. high W. of cor.
            Land, rolling. Soil, 3rd rate gravelly, dry.
            Scattering mesquite, tesseta, cacti, fair grass.
            S. 2° 09' W., on a true line, bet. secs. 13 & 18.
               Over rolling land, desc. grad.
10.50
            Road, brs. NW. & SE.
Re-establish ½ sec. cor., as follows:

Set a lava stone 24xl0x7 ins. 18 ins. in the ground for

½ sec. cor., marked ½ on W. face, and

raise a mound of stone 2 ft.base, 1½ ft.high W.of cor.
            Gulch, 30 lks. wide, course SE., asc. NE. slope.
Volvanic ridge, brs. E. & W., desc.
Toricor.of secs. 13,18,19 & 24, alava stone 10×5×7 ins above
This cor. we re-mark with 3 not ches on N. & S. edges, in
56.70
65.00
80.11
               original position, and
               raise a mound of stone 2 ft.base, l^{\frac{1}{2}} ft.high W.of cor.
           Land, rolling, mts.
            Soil, 3rd rate, gravelly, stony, dry.
            Scattering mesquite, tesseta, cacti, good grass.
           'S. 0° 21' W., on a true line, bet. secs. 19 & 24.
            Over rolling land, desc. grad. Wash, 15 lks. wide, course SE.
1.50
39.40
            Wash, 20 lks. wide, course SW.
           To orig. $\frac{1}{4}$ sec. cor., a granite stone 12 $10 \times above ground, heretofore described, This cor. we re-mark in orig. position, $\frac{1}{4}$ on W. face, and raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high W. of cor. Thence, $\frac{1}{4}$ s. 0.50. We have through dense mesquite brush.
40.07
                                      , re-establishing the lost corners on line
               at proportional distances.
            Wash, 25 lks. wide, course SE.
15.00
30.00
           Old road, bra. E. & W.
           Re-establish cor. of sers. 19,24,25 & 30, as follows:
Set a granite stone 20x12x10 ins. 15 ins. in the ground
for cor. of secs. 19,24,25 & 30, marked with 4 notches o
39.89
              on N., and 2 notches on S. edges, and raise a mound of stone 2 ft.base, 1\frac{1}{2} ft.high W.of cor.
           Land, rolling. Soil, 3rd rate, gravelly, sandy, loode, dry.
           Mesquite, tesseta, cacti, good grass.
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Re-survey of East Boundary T. 22 S., R. 29 E.

63

64

General Description.

The East Boundary of T. 22 S., R. 32 E. as re-surveyed by us runs over gently rolling grassy land in the south four miles, and then over broken or mountainous land in the northern 2 miles, ascending gradually to the foothills of the Chiricahua mountains. The soil is in general gravelly and dry,

Hill HARIN

There is no water or timber on or near the line, nor any trace of settlers.

Oct. 23, 1912.

U. S. Surveyors.

40.00

No bearings available.

At this cor., at noon, I set off'llo49' S. on the decl. arc, and observe the sun on the meridian. The resulting lat. is 31°33' N.

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Chains.
                                From the cor. of Eps. 21 & 22 S., Rs. 30 & 31 E., just
ECO!
                                    re-established by me, I run,
                               on a true line, on S. bdy. of T. 21 S., R. 30 E. 'S. 89°46' W., bet. secs. 1 & 36.
                                    Over gently undulating plain, covered with loose
                                    lava stones.
                  23.80
                                Draw, 1 ch. wide, course SE.
                               Praw, 1 ch. wide, course SE.

Re-establish \( \frac{1}{4} \) sec \( \frac{1}{2} \) on line as follows:

Set a lava stone 20x12x10 ins. 15 ins. in the ground for \( \frac{1}{4} \) sec. cor., marked \( \frac{1}{4} \) on N. face, and \( \frac{1}{2} \) size a mound of stone 2 ft. base, \( 1\frac{1}{2} \) ft. high N. of cor.

To orig. cor. of secs. 1,2,35 & 36, and d stake with faint markings, which is destroy as a sand point cestable cor of secs. 35 & 36, T.215. R.30E. as follows. Set a lava stone 24x15x10 ins. 18 ins. in the ground for cor. of secs. 35 & 36, T.215 harked with 1 notch on E., and 5 notches on W. Edges, and raise a mound of stone 2 ft. base, \( 1\frac{1}{2} \) ft. high N. of cor.

Knowing now from my retracements and the excess measureme.
                40.84
                ·81.68
                                Knowing now from my retracements and the excess measurements
                                    as discovered thereby that it will be necessary to set
                                    closing corners on this line when subdividing the Tp.
                                    to the S., I establish the corners on this line to refer to sections at 1.215. R.30 E., only, in orig. position of old cors.
                                Land, rolling.
                                Soil, 3rd rate, stony, heavy, clayey.
                                Sage brush few cacti, good grass.
                              on true line
'N. 89°45' W., bet. secs. 2 & 35.

Over gently rolling land.
                               Enter draw, course SSE.
                 10.00
                               Wash, 15 lks. wide, course SSE. Leave draw, asc. grad.
                  15.00
                 16.40
                                Top of rise, brs. NNW. & SSE. thence over grassy plain. To orig. 1 sec. cor. which I re-mark in drig. position,
                 21.40
                • 40 • 39
                                   and raise a mound of stone 2 ft.base, 12 ft.high N.of
                                    cor.
                               Thence I run,
N. 89°48' W., on true line
                 40.46
                                To orig. cor. of secs.
                                                                                2,3,34 & 35, a tava stone 1288 *5 ins. above
                                ground, heretofore described, at this point lestab. cor. of secs. 34&35, T.215.R.30 E. by remarking origistone with: ,2 notches on E.&Anotches on Wedges, reset same in origination, & raising a mound of stone 2 ft. base, 12 ft. high N. of cor.
                               Land, rolling.
                               Soil, 3rd rate, stony, dry.
Sage brush, few cacti, mesquite, good grass.
                               on true line
N. 89°27' W. bet. secs. 3 & 34.
Over gently rolling plain.
                   2.85
                                Road, brs. NE. & SW.
                   3.33
4.42
                               Wire fence, brs. NE. & SW. Telegraph line. brs. NE. & SW.
                   5.50
                               El Paso & Southwestern Railroad, on curve, brs. NE. & SW.
                   7.80
                               Wire fence, brs. NE. & SW., parallet to R.R.
                               Drain, 10 lks. wide, course S.
Drain 10 lks. wide, course S. asc. grad.
S. end of volcanic butte, near foot, brs. N. & S.
                 25.45
                 29645
                 36.00
                                   desc. grad.
                               To orige & sec. core, a lave stone 10x10x5 ins. above ground; heretofore described this core in orige position,
                 39.36
                                   re-marked \frac{1}{4} on N. face, and raise a mound of stone 2 ft.base, l\frac{1}{2} ft.high N.of cor.
                              Thence I run,

S. 89°54' W., on true line

To orige cor. of secs. 3, 4, 33 & 34, a lava stoned2x8x5 ins. above ground by remarking original stories: with 3 notches on E. & W. edges; and raise a mound of stone 2 ft. base, 1½ ft. high N. of cor.
                41.41
                               Land, rolling.
                               Soil, 3rd rate, gravelly, stony, dry.
                               Sparse sage brush, cacti, good grass.
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Re-survey of South Boundary T. 21 S., R. 30 E.

10

66.

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-S. 890541 W. bet. secs. 4 & 33.
                                                                                                                                                                                                        MCCE
                                                                                                                                                                                                                                2475
                                    Over heavily rolling land, drains to S.
     23.00
                             Asc. SE. slope.
                            Top of S. end of volcanic butte, brs. N. & S., desc.
    32.00
                                    grad.
                             To orig. \(\frac{1}{4}\) sec. cor., a lava stone 10% 10×4 ins. above ground, which I re-mark \(\frac{1}{4}\) on N. face, and raise a mound of stone 2 ft. base, 1\frac{1}{2} ft. high N. of cor.
 • 40 • 45
                          Thence I run,
.N. 89043: W., an true line
                       Draw, 140 lks. wide, course ESE.

Orig position of cor of secs. 4.5, 32 & 33, at which point lestab corrof secs. 32 & 33, 3215. R30E.

Set a volcanic stone 24x12x10 ins. 18 ins. in the ground,
       6.00
 -40-55
                                  for cor. of secs. 32 & 33, marked with 4 notches on E., and 2 notches on W. edges, and raise a mound of stone 2 ft.base, 1\frac{1}{2} ft.high N. of cor.
                                   No bearings available, pits impracticable.
                           Land, rolling.
                           Soil, 3rd rate, gravelly, dry, stony, loose. Sage brush, few cacti, good grass.
                          on true line

N. 89°43' W.A bet. secs. 5 & 32.

Over mts. land, drainage to SE.

Road, brs. N. & S.

Wash, 20 lks. wide, course SE.
   11.00
   20.00
                           To orig. ½ sec. cor., a malapais stone 10x10x5 instable above abov
  .40.55
                         Thence I run, s. 89°48' W., on true line
                      Asc. grad.

Ridge, brs. S. & N., desc. grad.

Original position of cor. of secs. 5,6,31 & 32, at which point lestab cor. of secs. 31 & 32, T.215 R 30 E.

Set a granite stone 20x10x8 ins. 15 ins. in the ground

of secs. 21 & 32 marked with 5 not hes on E.
  36.80
• 40 • 30
                                for cor. of secs. 31 & 32, marked with 5 not hes on E. and 1 notch on W. edges, and raise a mound of stone 2 ft.base, 1\frac{1}{2} ft.high N.of cor.
                          Land, mts., rolling.
                          Soil, 3rd rate, gravelly, stony
                          Sage brush, few cacti, good native grass.
                        Thence, an true line

8. 89°48' W. bet. secs. 6 & 31.

Over mts. land, desc. grad.
                        Wash, 30 lks. wide, course S. Wash, 30 lks. wide, course SE., asc. Ridge, brs. S. & N., desc.
     9.00
 13.00
 26.00
 33.00
                         Wash, 15 lks. wide, course S., asc.
 36.00
                         Ridge, brs. S. & N., desc.
                         To orig. \(\frac{1}{2}\) sec. cor., om line, a lava stone 13×11×6 ins. above ground, re-mark same \(\frac{1}{2}\) on N. face, and raise a mound of stone 2 ft.base, \(\frac{1}{2}\) ft.high N. of cor.
40.30
                        Thence I run,
S. 89°20' W., on true line
                       Wash, 15 lks. wide, course S. asc.
Ridge, brs. N. & S., desc. grad. along, broken S. slope.
To cor. of Tps 21 & 22 S&, Rs. 29 & 30 E., on line, a granite
   3.00
13.30
40.28
                               stone 12×6×6 ins. above ground, heretofore described.
                        Land, mts., broken.
                       Soil, 3rd rate, stony, gravelly, dry. No timber, good grass.
                                                                               General Description.
                                        The South Boundary of T. \overline{2}1 S., R. 30 E., as
                                        re-surveyed by me runs overa smooth, open valley for four miles from the East, covered in places
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Re-survey of South Boundary T. 21 S., R. 30 E.

71

67

with loose volcanic stones, or tufa, light and

The line throughout is well covered with a good growth of native grass. Oct. 24, 1912. William Bollins U.S. Surveyor Channs.

J.B.W. & W.H.E.

Oct. 25, 1912.

At 8h a.m., l.m.t., at the cor. of Tps. 21 & 22 S., Rs. 30& 31 E., recently reestablished by W.H.E. and hereinbefore described, we set off .12°05 "S. on the decl. arc, and .31°33'N.on the lat. arc, and determine a meridian with the solar. Thence we run, on a random line, on S. bdy.of T.215-R.31E.

39.46

East, bet. secs. 6 & 31.

The orig. ½ sec. cor. brs. South, 73 lks. dist., which is a lava stone 10x6x4 ins. above ground, marked & witnessed as described by the Surveyor-General.

Thence We run,

East, on random line bet secs. 6 & 31.

The orig. cor. of secs. 5,6,31 & 32, brs. South, 31 lks. dist., which is a lava stone 10x6x5 ins. above ground marked and witnessed as described by the Surveyor--40.47 General.

Thence We run,

East, on random line setting flags at intervals of 40 and 80 chs., and at these points make diligent search for the corners as described in the field notes furnished by the Surveyor-

General, finding no trace of any corners till at The orig. cor. of Tps. 21 & 22 S., Rs. 31 & 32 E., brs. South, 9.26 chs. dist., which is a lava stone 20x10x7 ins. above ground, marked and witnessed as described by the Surveyor-General.

This corner being in a very dilapidated condition, and the markings thereon being very indistinct, we re-establish same in original position and re-mark same with 6 notches on N., S., E. & W. edges, and raise a mound of stone 4 ft.base, 2 ft.high S.of cor. From which,

A lava hill brs. S. 62°W. A wooded peak brs. S. 39°31' E.

Without the bearings as given to these objects in the original notes we would have been unable to find this corner.

At this cor., at noon, we set off'l2° $09\frac{1}{2}$! So on the declarc, and observe the sun on the meridian. The resulting lat. is .31°33' N.

From the courses and distances as found from above retracements, we calculate the true courses and distances between corners on the S. bdy. of the Tp. and from the above described cor. of Tps. 21 & 22 S., Rs. 31 & 32 E., we run, a plant

400.40

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Chains
                                                                                                  BCOK 2475
             N. 88041 W. on a true line, bet. secs. 1 & 36.
                Over rolling land.
  6.00
             Wash, 60 lks. wide, course WSW., asc. grad. SE. slope.
 22.00
             Ridge, brs. S. & N.
             Road, NNE. & SSW., in turn of same.
 39.10
 40.05
             Re-establish \(\frac{1}{2}\) sec. cor. on line,
             Set a lava stone 20x10x10 ins. 15 ins. in the ground for
                \frac{1}{4} sec. cor., marked \frac{1}{4} on N. face, and raise a mound of stone 2 ft.base, 1\frac{1}{2} ft.high N.of cor.
             Gulch, 50 lks. wide, course S., asc. grad. Old road, brs. NW. & SE.
 41670
 49.25
             Low ridge, brs. S. & N., desc. Gulch, 50 lks. wide, course S., asc. grad., over stony
 53.25
 59.25
                SE. slope.
 80.10 Re-establish cor. of secs. 1,2,35 & 36.
Set a lava stone 24x12x8 ins. 18 ins. in the ground for
                cor. of secs. 1,2,35 & 36, marked with 1 notch on E. & 5 notches on W. edges, and raise a mound of stone 2 ft. base, 1\frac{1}{2} ft. high W. of cor.
             Land, rolling, mts.
             Soil, 3rd rate, gravelly, dry, stony. No timber. sage brush, cacti, fair grass.
            N. 880411 W., bet. secs. 2 & 35.
Over mts. stony land, asc. SE. slope.
             Top of ridge, upper E. rim of old crater brs. NNE. & SSW.,
18.00
                desc. prec.
            Desc. abruptly over volcanic ledges. Bottom of old crater brs. M. 2 S.
 32.00
 36.00
             Retestablish original 2 sec., cor. on line.
40.05
              Sets a lava stone 20x12x8 ins. 15 ins. in the ground for \frac{1}{2} sec. cor., marked \frac{1}{4} on N. face, and raise a mound of stone 2 ft.base, 1\frac{1}{2} ft.high N.of cor.
                Thence over bottom of old crater.
            Re-establish orig. cor. of secs. 2,3,34 & 35. Set a lava stone 18x10x6 ins. 12 ins. in the ground for
80.10
               cor. of secs. 2,3,34 & 35, marked with 2 notches on E., and 4 notches on W. edges, and raise a mound of stone 2 ft.base, late ft.high W. of cor.
             LaNa bearings available, pits impracticable.
            Land, mts., rolling.
            Soil, 3rd rate, stony.
            No timber, sparse cacti, sage brush, fair grass.
            N. 88041 Was bet. secs. 3 & 34.
                Over rolling land, in bottom of crater.
            Leave bottom of crater, brs. NW. & SE., asc. precipitous. Top of bluff, W. rim of crater, brs. NW. & SE., asc. grad. Ridge, brs. NNW. & SSE., desc. through mesquite brush
  4.00
19.00
21.00
               and dense cacti.
            Re-establish \(\frac{1}{4}\) sec. cor. on line.

Set a lava stone 24x10x8 ins. 18 ins. in the ground for \(\frac{1}{4}\) sec. cor., marked \(\frac{1}{4}\) on N. face, and raise a mound of stone 2 ft.base, \(\frac{1}{2}\) ft.high N.of cor.
40.05
           Leave mesquite, brs. N. & S., desc. grad.

Re-establish cor. of secs. 3,4,33 & 34, on lime.

Set a lava stone 20xl0xl0 ins. 15 ins. in the ground for cor. of secs. 3,4,33 & 34, marked with 3 notches on E.
68.00
80.1Q
               & W. edges, and
               raise a mound of stone 2 ft.base, 1\frac{1}{2} ft.high W.of cor.
               No bearings available.
           Land, mts., rolling.
Soil, 3rd rate, stony, gravelly, dry.
           Mesquite, cacti, grassewood, fair grass.
           I, Tooking was been coosed to BB.

Over rolling land, drawn word.

No-antablich & sec. core, on hims.

Set a have abone landows imm. In the ground for
40.05
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Re-survey of South Boundary T. 21 S., R. 31 E.

70.

14

the orig. closing cor of Tps. 21 S., Rs. 31 & 32 E., brs. East, 43 lks. dist., which is an old stake, with faint markings and mound of stone as described by the Surveyor-General; from which, The Std. 1 sec. cor. on S. bdy. sec. 36, T. 20 S., R. 31 E., brs. East, 4.10 chs. dist., which is a lava stone 12x10x 4 ins. above ground, with mound of stone marked as described by the Surveyor-General.

At this cor., at noon, I set off 12°30 S. on the declarc, and observe the sun on the meridian. The resulting lat. is.31°38' N.

sens the common to be brown of the sense of the contract of th

Chains.

2475 **ECOK**

The original closing cor. of Tps. 21 S., Rs. 31 & 32 E. being in a very dilapidated condition, and the markings nearly obliterated, I destroy same, and in the original position of said corner, Tre-establish same as follows:

position of said corner, i re-establish same as follo Set a lava stone 16x8x6 ins. II ins. in the ground for closing cor. of Tps. 21 S., Rs. 31 & 32 E., marked with 6 grooves on E. W., and S. faces, and raise a mound of stone 3 ft. base, 2 ft.high S. of cor.

No bearings available. At this cor. I calculate the true bearings & prop. distant of the East Boundary of T. 21 S., R. 31 E., and run thence, on a true line, on East Bdy& of said Tp., 'S.O' 9' W., bet. secs. 1 & 6

40.86

87.11

Over rolling land, asc. slightly.
By proportional distance relative to original distance as recorded in field notes as furnished me by the Surveyor-General, re-establish 1 sec. cor. as follows:

Set a malapais stone 16x12x8 ins. 11 ins. in the ground, for \(\frac{1}{4} \) sec. cor., marked \(\frac{1}{4} \) on W. face, and raise a mound of stone 2 ft.base, 1\(\frac{1}{2} \) ft.high W.of cor. Since it is hevident from the excess distances along this

line that closing section corners will necessar ily be established thereon when subdividing T. 21 S.R.32 E. I change markings on old corners and set new corners where required, each to refer to sections in T.21S-R31 Econtur; therefore at Theoretical position of roriginal con of secs. 1,6,7&12; at which point I set a lava stone 24x16x12 ins. 18 ins. in the ground for cor. of secs. 1 & 12,725 arked with 1 notch on N., and

5 notches on S. edges, and raise a mound of stone 2 ft.base, $1\frac{1}{2}$ ft.high W.of cor.

Land, rolling gently.
Soil, 3rd rate, sto my, covered with loose lava stone.

No timber, few cacti, good grass.

1.20 36.50

140.25

71.45

75.00 76.00

80.00

*** 80.**50

Over rolling land, asc. gently.
Wire fence, brs. N.7½° W. & S.7½° E.
Wire fence, brs. ENE. & WSW.

Recestablishtorig. \$\frac{1}{4}\$ sec. cor. as follows:

Set a lava stone 16x8x8 ins. ll ins. in the ground for

\$\frac{1}{4}\$ sec. cor., marked \$\frac{1}{4}\$ on W. face, and

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

Wire fence, brs. ENE. & WSW.

Wash, 30 lks. wide, course NNE. Road, brs. NNE. & SSW. Dam for small reservoir brs. West 50 lks. dist.

Same wash as above, course NNW.

Destroy existing traces of original cor. of secs. 712,13 & 18 at this point, and Set a granite stone 16x10x6 ins. 11 ins. in the ground for cor. of secs. 12 & 13,7 15 18 18 de with 2 notches on N. and 4 notches on S. edges, and

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

Soil, 3rd rate, covered with laose, light lava stones. Sage brush, few cacti, mesquites, good grass.

Re-establish orig. ½ sec. cor. on line.

Set a volcanic stone 18x10x6 ins. 12 ins. in the ground for ½ sec. cor., marked ½ on W. face, and raise a mound of stone 2 ft.base, 1½ ft.high W.of cor. Road, brs. NE. & SW. Road, brs. NE. & SW.

Original position of cor of secs. 25,30,31 & 36 at which point 1-establish corner of secs 25 & 36, T.215 R.31 E. by remarking ariginal stone

with 5 notches on N., and 1 motch on S. edges, and raising a mound of stone 2 ft.base, $l\frac{1}{2}$ ft.high W.of cor. Land, mts., hilly. Soil, 3rd rate, covered with loose lava stones. Sparse undergrowth, good grass.

72.00

80.51

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Re-tracement, West Boundary Frace T. 24 S., R. 29 E.
                                                                                                     19 75
                                                                                        J.B.W.
BOOK
Chains.
          Jan. 3, 1913.

At 8h a.m., 1.m.t., at the closing cor., of Tps. 24 S.,

Rs. 28 & 29 E., which is a limestone 8x6x6 ins. above
                                                                                                    2475
              ground, marked and witnessed as described by the Surveyor-
              General,
           I set off .22°47\frac{1}{2}'S. on the decl. arc, and 31°20\frac{1}{2} N. on
              the lat. arc, and determine a meridian with the solar. Thence I retrace,
           North, bet. secs. 19 & 24, on random line
Over mts. land, asc.
 6. <u>35</u>
           Find original cor. of secs. 13, 18, 19 & 24 on line, which is
              a granite stone 8x6x6 ins. above ground, marked and witnessed as described by the Surveyor-General.
           From the above described cor., I run,
           North, bet. secs. 13 & 18, on random line,
             Over rolling land, asc.
  2.00
          Low ridge, brs. E. & W., desc.
 2.50
          Wire fence, brs. ENE. & WSW.
  6.00
          Enter dense greasewood, brs. NW. & SE.
10.00
           Foot of slope, brs. E. & W., over rolling land.
12.50
           Asc.
          Telephone line, brs. NE. & SW. Ridge, brs. SW. & NE., leave undergrowth, desc.
22.20
24.00
           Road, Douglas to San Bernardino ranch, brs. NE. & SW.
30.55
37.00
          Enter dense greasewood, and scrub mesquite, brs. NW.& SE.
              sec. cor., on line, which is a calcareous stone, 10x6x4 ins. above ground, marked and witnessed as
39.91
              described by the Surveyor-General, 39.91chs. From this 4 sec. cor. | run, us course and distance of this /2 mile is North, 39.91chs. From this 4 sec. cor. | run, on Random line, North,
           Enter draw,
45.00
          Road, brs. E. & W. Wash, 30 lks. wide, in rocky gulch, 80 lks. wide, course
49.92
50.24
              W., asc. grad.
          Leave draw, asc. steep.

Spur, brs. W. & E., near W. point, desc.

Find cor. of secs. 7,12,13 & 18 2 lks. W. of line, which is a sandstone 10x8x6 ins. above ground, marked and witnessed as described by the Surveyor-General.

True course & distance of this 2 mile, N.0° 2'W., 40.10 chs.
62.10
69.00
80.01
           North, bet. secs. 7 & 12, on random line Over rolling, broken land.
  <u>5</u>50
           Enter draw, course SW.
           dry wash, 20 lks. wide, course SW.
  2.00
  3. 00
           Leave draw, asc. grad.
19.20
           Top of rise, flat ridge, brs. W. & E., desc. grad.
           Foot, enter draw, course W. Leave draw, asc.
27.00
29.00
34.50
           Top of rise, brs. W. & E., desc. grad.
           Foot, brs. E. & W., asc. grad.
Find orig. \( \frac{1}{4} \) sec. cor. 2 lks. W. of line, which is a granite stone 8x6x6 ins. above ground, marked and
38.00
40.04
              witnessed as described by the Surveyor-General.
             Continue my line and measurement.
           Ridge, brs. E. & W.,
43.00
           Desc. grad. Wash, 20 lks. wide, course W.
48.90
51.75
           Draw, 3 chs. wide, course W. Wash, 30 lks. wide, course W.
53.60
65.20
           Gulch, 15 lks. wide, course W., asc. grad. Find orig. cor. of secs. 1,6,7 & 12 2 lks. W. of my line, which is a granite stone 10x8x6 ins.
71.25
80.04
              above ground, marked and witnessed as described by
              the Surveyor-General.
           True course and distance of 1st 1 mile
                                                                       is N.O° 2' W.,
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40.04 Chs. Last ½ mile, this line is North, 40.00 chs. Land, rolling, broken. Soil, 3rd rate, gravelly.

Sage brush, greasewood, fair grass.

Chains. North, bet. secs. 1 & 6, on random line

Over mts. land, asc. Ridge, brs. E. & W. 20.00 Foot, brs. E. & W. 22.00

33.00 Asc. grad.

39.00 Ridge, brs. NW. & NE., thence along W. slope, near foot of main slope of mountains to E.

40.02 Find orig. $\frac{1}{4}$ sec. cor. on line, which is a sandstone 10x6x6 ins. above ground, marked and witnessed as described by the Surveyor-General.

47.00 Desc

50.65 Gulch, 40 lks. wide, course SW.

60.10

71.80 80.02

Stony gulch, 35 lks. wide, course SW.

Road, brs. E. & W., wood road.

To cor. of Tps. 23 & 24 S., Rs. 28 & 29 E., on line,
which is a granite stone 16x10x6 ins. above ground, marked and witnessed as described by the Surveyor-General. I re-build the mound of stone 3 ft. base, 2 ft. high S. of cor. True course and distance of this mile is North, 80.02 chs.

I find that my random line on the North Boundary of T. 24 S., R. 29 E. projected, falls 236 lks. S. of the true cor. of Tps. 23 & 24 S., Rs. 28 & 29 E., at a distance of 6 miles, 17.54 chs.

The true course and distance of the North Boundary of T. 24 S., R. 29 E., is therefore S. 89°44' E., 497.54 chs.

Jan. 3 - 1913. Jesse B. Wright, U.S. Surveyor.

2475

21

78

Chains

79.98

Re-establish 372 mile cor. as follows: Set a granite stone 25x15x10 ins. 15 ins. in the ground, in mound of stone for 372 mile cor., marked

372 on N., ARIZ on W.,

N M on E., and
32 W L on S. faces,
raise a mound of stone 3 ft. base, 2 ft. high N. of cor.
Land rough, mts. Soil, 4th rate, stony. Scattering oak, pinon, cedar.

South, from 372 mile cor.
Over mts. land, asc. prec. NW. slope.

Top of rise on steep W. slope, desc. SW. slope. 20.00 Skeleton Canyon, 150 lks. wide, course W., road in 46.50 same, brs. E. & W.

48.00

71.50 79.98

Asc. prec.
Top of granite ridge, brs. E. & W., desc. prec.
Set a granite stone 24x12x10 ins. 10 ins. in the ground, on bed-rock, in mound of stone for re-established

373 mile cor., marked ARIZ on W.,

N M on E.,

373 on N., and 32 WL on S. faces;

raise a mound of stone 2 ft.base, la ft.high N.of cor. Land, rough, mts., Soil, 4th rate, stony. Scattering oak, pinon, cedar.

15.00

41.25

South, from 373 mile cor.
Over broken land, along rough west slope.

Gulch, 50 lks. wide, course W., asc.
Top of rough granite spur, brs. W. & E., desc. prec.

Along broken W. slope.

50.00 79.98 To orig. 374 mile cor., a granite stone 14x10x6 has above ground,

This cor. I re-mark, since the original marking; are faint,

ARIZ on W.,

N M on E.,

374 on N., and
32 W L on S. faces.
raise a mound of stone 3 ft.base, 2 ft.high N.of cor.,

from which, A pinon tree 12 ins. diam. brs. S. 35°W. 51 lks. dist.,

marked ARIZ 374 B T. An oak tree 12 ins. diam. brs. S. 65°E. 37 lks. dist., marked N M 374 B T.

No other trees available.

Land, rough, mts.

Soil, 3rd rate, stony.

Oak, pinon, scrub oak, cacti.

At this cor., at noon, I set off '18°47' S. on the declarc, and observe the sun on the meridian.

The resulting lat. is 31°34' N.

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Chains.
                                                                                    BOOK 2475
          South, from 374 mile cor.
             Over rough mts. land, asc. prec.
          Rocky ledge, on spur, brs. E. & W., desc. Along prec. W. slope.
 9.00
15.00
          Asc. over broken NW. slope.
30.00
60.00
          Top of high mountain ridge, brs. NE. & SW., main ridge.
             desc. along E. slope.
          Re-establish 375 mile cor. as follows:
Set a granite stone 30x18x12 ins., on bed-rock, in mound
79.92
            of stone for 375 mile cor., marked
                            ARIZ on W.,
                            N M on E.,
                            375 on N., and 32 W L on S. faces.
            raise a mound of stone 3 ft.base, 2 ft.high N. of cor.
          Land, mts., broken, very rough. Soil, 3rd & 4th rate, stony, dry.
          Pinon, cacti, oak, scattering.
         South, from 375 mile cor.
Over mts. land, asc.
Ridge, brs. E. & W., desc.
Gulch, 20 lks. wide, course E., asc.
Ridge, brs. E. & W., desc.
20.90
40.00
49,10
56.20
          Head of gulch to E., asc.
          Ridge, brs. E. & W., desc.
64,90
         Head of gulch, course E., asc.

Re-establish 376 mile cor., on line, as follows:

Set a granite stone 20x10x10 ins. 15 ins. in the ground
75.50
79.92
            for 376 mile cor., marked
                            ARIZ on W.,
                            N M on E.,
376 on N., and
32 WL on 5. faces;
            raise a mound of stone 3 ft. base, 2 ft. high N. of cor.
         Land, mts., rough, broken.
          Soil, 3rd rate, stony.
          Pinon, scrub oak, and other brush.
         South, from 376 mile cor.
Over mts. land, asc.
Ridge, brs. E. & W., desc.
10.50
         Gulch, 20 lks. wide, course E., asc.
21.00
46.40
         To 377 mile cor., a granite stobe 18x12×4 ins above ground,
79.92
          The markings on this cor. being almost obliterated,
            I remark same
                            ARIZ on W.,
            N M on E.,
377 on N., and
32 WL on S. faces, and
raise a mound of stone 3 ft.base, 2 ft.high N.of cor.
         No bearings available.
         Land, mts., rough, broken.
         Soil, 3rd rate, stony, dry.
Small scrub pinon and oak, few oak trees.
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Nov. 16, 1912.

Tenneral

U. S. Surveyor.

2475

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Chsins.
                                                                              J.B.W.
           Dec. 18, 1912.
          At Ih p.m., l.m.t., at the 388 mile cor., on Arizona-BOOK
             New Mexico Boundary line, which is a granite stone 17x13x9 ins above marked and witnessed as described by the
             Surveyor-General,
           I set off 23°23' S. on the decl. arc, and 31°22' N. on
             the lat. arc, and determine a meridian with the solar.
             Thence I run,
           South, as per field notes furnished by the Surveyor-
             General.
             Over mts., broken land, desc.
  7.50
          Gulch, 40 lks. wide, course W., asc. steep.
          Edge of mesa, brs. SW. & NE.,
 30.00
          Desc. grad. Wash, 10 lks. wide, course W., asc.
 33.00
 41.00
          Ridge, brs. E. & W., desc.
Gulch, 40 lks. wide, course SW., asc.
 44.00
 65.00
          Find evident remains of old 389 mile cor., which is a
 764 35
             granite stone, badly decomposed, with faint markings as described by the Surveyor-General.
          This stone I remark
                            ARIZ on W.,
                            N M on E.,
                            389 on N., and
             32 WL on S. faces, and raise a mound of stone 2 ft.base, la ft.high N.of cor.
          Land, broken, mts.
          Soil, 3rd rate, stony, dry.
          Sparse pinon, oak, scrub oak, cacti,
                                                                 Dec. 18, 1912.
          Dec. 19, 1912.
          At 9h a.m., l.m.t., at the 389 mile cor., as above described, I set off 23°24' S. on the decl. arc, and 31°22' N. on the lat. arc, and determine a meridian
             with the solar.
             Thence I rum,
          South,
          Over mts. land, asc.
Ridge, brs. E. & W., desc.
Wash, 15 lks. wide, course SE., asc.
 1.00
26.00
29.00
          Ridge, bra. E. & W., desc. Guadalupe Canyon, 345 lks. wide, course SW.
38.00
 39, 10
          Road, brs. NE. & SW.
39.60
          To the Monument as originally set at 389.52 chs., which is a granite stone 36x20x15 ins charked and withnessed
             as described by the Surveyor+General.
41.45
          Wash, 70 lks. wide, course SW., asc.
                                                               from canyon.
          Ridge, brs. E. & W., desc. steep. Wash, 15 lks. wide, course W., asc.
55.00
63.00
          Ridge, brs. E. & W., desc. grad. To 390 mile cor., on line, which is a sandstone 16x16x8
70.00
74.72
            ins. above ground, marked and witnessed as described by
            the Surveyor-General.
          Land, mts., very rough and broken.
         Soil, 3rd rate, stony, dry.
          Sparse pinon, scrub oak,
                                            few oak trees.
         South, from 390 mile cor. Over mts. land, desc.
         Wash, 20 lks. wide, course W., asc. Top of point of ridge, brs. W. & E., desc.
 8.00
18.00
         Wash, 20 lks. wide, course NW, asc. steep. Spur, brs. E. & W., desc. steep.
21.00
27.00
         Same wash as above, course NE., asc. steep. Find the monument as originally set for the intersection
33.00
47.11
            of this line with International Boundary bet. the
           United States, and Mexico, which is a granite stone 68x24x18 ins. Marked and witnessed as described by the
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Surveyor-General.

Chains.

26

BOOK 2475

From the monument above described, which I find is not located on the true line of The International Boundary as stated in the original notes of Ariz. - New Mexico Boundary, I run, South,

Over mts. land, asc.
To Monument No. 71 on the International Boundary Line which is an iron monument as described by the 15.43 Surveyor-General, properly marked.
from which Mon. No. 72 bears West 55.91 chs. dist. which is an iron monument,
ec. 19, 1912.
marked & witnessed as described by the Surv. General.

Dec. 19, 1912.

U. S. Surveyor.

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J.B.W.
Chains.
                       March 13, 1913.
                       Preliminary to beginning the subdivision of T. 19 SON
                                                                                                                                                                                                 2475
                            R. 18 E., I test the measurement and alinement of portions of the South Boundary of the Tp., and find same agrees very closely with the field notes as
                            furnished by the Surveyor-General.
                       In order to test the west Boundary of the Tp., I proceed
                            as follows:
                       At 9h a.m., l.m.t., at the cor. of Tps. 19 & 20 S., Rs.
                            17 & 18 E., which is a sandstone 14x14x6 ins. above
                             ground, marked and witnessed as described by the
                            Surveyor-General, Lat. 31°43'47" N., Long. 110°33°26 "W., I set off.2°5725. on the decl. arc, and 31°44'N. on
                             the lat. arc, and determine a meridian with the solar. Thence I run, as per field notes,
                      North, bet. secs. 31 & 36, on random line
Over heavily rolling, broken land. asc.
Spur, brs. NW. & SE., desc.
     8.00
  10.75
11.40
                       Wash, 20 lks. wide, course NW.,
                       Road, Tucson to Naco and Douglas, brs. SE. & NW., asc.
                       Spur, brs. W. & E., desc.
  18.00
                      Wash, 20 lks. wide, course W., asc.

Spur, brs. W. & E., desc.

Enter valley, brs. E. & W.

Find evident remains of orig. \( \frac{1}{4} \) sec. cor. 8 lks. East,

which is an old stake with faint markings, as described
  22.00
  28.00
   37.00
  39.70
                            by the Surveyor General, which I destroy, and at the
                       orig. cor. point,
Set an iron post 3 ft. long, l'in. in diam. 26 ins. in
                            the ground for 4 sec. cor., marked on brass cap,
                            # 8 36 in W., and
S 31 in E. half] & raise mound of stone 2 ft base, 1/2 ft high, W. of cor.
True bearing of this 1/2 traile is N. N.O. 7 E. 739. 70 chis. 12 in the form this 1/2 section from this 1/2 section from the 1/2 ft. 1/2 in the 1/2 i
                       Wash, 50 lks. wide, course W., leave valley, asc. grad. Wash, 10 lks. wide, course SW., asc.
  45.00
  63.25
                       The orig. cor. of secs. 25,30,31 & 36 brs. East, 47 lks. dist., which is an old post, marked and witnessed as
 79.62
                            described by the Surveyor General.
                             This old cor. being in a dilapidated condition, I
                      destroy, and at the original core point,
Set an iron post 3 ft. long, 3 ins.in diam. 24 ins. in
the ground for cor. of secs. 25,30,31 & 36, marked on
brass cap, T 19 S. in N. half,
                     R 17 E S 25 in NW.,
R 18 E S 30 in NE.,
S 31 in SE., and
S 36 in SW. quad.;
raise a mound of stone 2 ft.base, 1½ ft.high W.of cor.
True course of this ½ mile is N.'0°40' E., 39.92 chs.
Land, broken, heavily rolling.
Soil, 2nd & 3rd rate, sandy, gravelly, dry, loose.
Sparse sage brush, cacti, fair grass.
                      From the above described cor,, I run,
                      North, bet. secs. 25 & 30, on random line
                            Over hilly land, asc. grad.
                      Ridge, brs. W. & E., desc.
Gulch, 30 lks. wide, course W., asc.
Ridge, brs. WNW. & ESE., desc.
    5.00
 18.30
 25.00
                      Wash, 40 lks. wide, course WNW., asc.
                     Evident remains of orig. \(\frac{1}{4}\) sec. cor., brs. East, 70 lks. dist., at which point I

Set an iron post 3 ft. long, l in. in diam. 26 ins. in the ground for \(\frac{1}{4}\) sec. cor., marked on brass cap,
\(\frac{1}{4}\) S 25 in W., and
\(S 30\) in E. half:
 39.94
                            S 30 in E. half; raise a mound of stone 2 ft. base, la ft. high W. of cor.
                      True bearing of this to mile is No. 1° E., 39.94 chs.
```

21.00 29.00 .39 • 43

84

BOOK

28

Chains.

2475

58.00 64.00 79-94

Ridge, brs. W. & E., desc. Wash, 50 lks. wide, course W., asc. 13.00

Wash, 90 lks. wide, course WSW., asc. grad.

Top of of SW. end of spur from NNE., thence along W.slope.

Orig. cor. of secs. 13,18,19 & 24 brs. East, 28 lks. dist.,

which is an old decayed stake with faint marking as measurements, described by the Surveyor General.

Astit is now evident that closing sec. coms. will be necessary on the line bet, secs. 18 & 19, and probably bet. secs. 7 & 18, 6 & 7, from the errors of measurement as developed, at this orig. cor. point I Set an iron post 3 ft. long, 3 ins. in diam, 24 ins. in the ground for cor. of secs. 13 & 24, marked on brass cap, T 19 S, in N., and

S 13, S 24, R 17 E, in W. half,
S 18 in NE., and

S 19, R 18 E, in SE. quad.; raise a mound of stone 2 ft.base, lz ft.high W.of cor. Land, heavily rolling, broken. Soil, 3rd rate, gravelly, stony, dry. Sparse sage brush, greasewood, cacti, good grass. True bearing of this mile is 'N. 0°24'E., 39.86 chs.

47.20 70.00 ,79.29

North, bet. secs. 7 & 12, on random line Over heavily rolling land, asc. rocky spur. 5.00 Spur, brs. W. & E. NE., desc. 10.00 16.50 32.50 Wash, 120 lks. wide, course W. -40**.3**3

Chains.

15.00 23.00 30.00

39.00 - 39.48

50.00

59.00 70.00 76.46 .78.72

Wash, 20 lks. wide, course WSW., Gulch, 30 lks. wide, course SW., asc. steep. Ridge, brs. W. & E., desc. 46.80 67.00 75.00 80.44

Ridge, brs. W. & E., desc.

Find evident remains of orig. cor. of secs. 1,6,7 & 12,

4 lks. to E. of line, being mound of stone, as described by the Surveyor General. The post having decayed, I destroy same set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of secs. 1 & 12,7 marked on brass cap, T 19 S, in N., and

S 1, S 12, R 17 E, in W. half,

S 6 in NE., and

S 7, R 18 E, in SE. quad.;

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

True bearing of this \frac{1}{2} mile is N.003'E. 40.11 chs.

True bearing of this & mile is N. 0°3'E. 40.11 chs. Land, broken. Soil, 3rd rate, stony. Fair grass.

30 BOOK 2475 Re-survey of West Boundary T. 19 S., R. 18 E. Chains. From the cor. of secs. 1 & 12, 7:195-RIZE. just described, Irun, North, bet. secs. 1 & 6, on random line Over heavily rolling, broken land, desc. Wash, 60 lks. wide, course W., asc. grad. 4.20 Ridge, brs. W. & E., desc. steep.
Wash, 40 lks. wide, course W., asc.
Origo t. sec. cor. brs. East, 42 lks. dist., which is a 27.00 35.00 940**.3**2 sandstone 6x6x6 ins. above ground, marked and witnessed as described by the Surveyor General, which corner I destroy and at same point Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for \(\frac{1}{4} \) sec. cor., marked on brass cap, \$ S l in W., and S 6 in E. half; raise a mound of stone 2 ft.base, la ft.high W.of cor. True bearing of this a mile is N. 0°36' E'., 40.32 chs. From this for. I run, North, continuing measurement, Ridge, brs. W. & E., desc. 52.00 Gulch, 20 lks. wide, course W., asc.
Ridge, brs. WNW. & ESE., desc.
Wash, 50 lks. wide, course WNW., asc. grad.
Orig. cor. of Tps. 18 & 19 S., Rs. 17 & 18 E. brs. 56.80 62.00 70.00 ,80**.86** East, 38 lks. dist., which is an old post, marked and witnessed as described by the Surveyor General, which con I des Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for re-established cor. of Tps. 18 & 19 S., Rs. 17 & 18 E., marked on brass cap, T 18 S, in N., T 19 S, in S., R 18 E in E., and R 17 E, in W. half, S 36 in NW., \$ 31 in NE., 6 in SE., and l in SW. quad.; S raise a mound of stone 2 ft.base, lt ft.high S.of cor. True bearing of this last & mile is N. 0°33'E., 40.64 chs. From this Cor. "Old Baldy" Santa Rita Mts. brs. S.64°10'W.

'Old Baldy" Santa Rita Mts. brs. S.64°10'W.
Rincon Peak brs. N.4°50'E., barely visible over ridge
to N.

Land, broken, heavily rolling.
Soil, 3rd rate, stony, dry.
Scattering mesquite, cacti, good

Scattering mesquite, cacti, good grass.

At this cor., at noon, I set off.2°31'S. on the decl. arc, and observe the sun on the meridian.

The resulting lat. is 31°48½' N.

GENERAL DESCRIPTION.

The West Boundary of T. 19 S., R. 18 E., as re-surveyed by me runs over a succession of ridges and washes or dry gulches trending to the West.

There is no water or timber on or near the line.

The land is well covered with a growth of native grass, with some scattering mesquite in the larger washes.

Juse R. Wright
U. S. Surveyor.

32 Chains. Ridge, brs. WSW. & East, thence on same. 11.00 **34.**00 Desc. steep Orig. cor. of secs. 3,4,33 & 34 brs. S. 33 lks. dist., which is a granite stone 8x5x5 ins. above ground, , 40.57 marked and witnessed as described by the Surveyor-General. Rebuild the mound of stone 2 ft.base, lt ft.high N. of cor. True bearing of this ½ mile is \$.89°32' E., 40.57 chs. Land, rough, mts., broken. Soil, 3rd rate, stony, dry. Scrub oak, mesquite, cacti, good grass. March 14, 1913. March 15, 1913. At 8h a.m., l.m.t., at the cor. of secs. 33 & 34, as above described, I set off.2°11'S. on the decl. arc, and 31°48 \pm 'N. on the lat. arc, and determine a meridian with the solar. Thence I run, S. of sec. 34, East, on random line Over mts. land, desc. steep. Gulch, 50 lks. wide, course WNW., asc.
Ridge, brs. NW. & SE., desc. grad.
Orig. \(\frac{1}{4} \) sec. cor. brs. S. 93 lks. dist., which is a granite stone l0x6x6 ins. above ground, marked and witnessed as described by the Surveyor. General.

I rebuild the mound of stone 2 ft. base, l\(\frac{1}{2} \) ft. high, 11.00 34.00 40.29 N. of cor. True bearing of this \(\frac{1}{2}\) mile is 'S.88°41'E. 40.30 chs. From this tor., I run, measuring from same East, on random line Gulch, 50 lks. wide, course NW., , Gulch, 30 lks. wide, course SW., near head, asc. along 1.00 21.60 N. side of ridge. Orig. cor. of secs. 2, 3, 34 & 35 brs. No. 136 lks. dist., which a granite stone 12x7x6 ins. above ground, marked -40.410 and witnessed as described by the Surveyor-General. Rebuild mound of stone 2 ft.base, lt.high N.of cor. True bearing of this to mile is N. 88 04 E., , . 40. 42 chs. Land, broken, mts., rough.
Soil, 3rd rate, stony, dry, loose.
Scrub oak, mesquite, good grass. From the cor. of secs. 34 & 35, I run, S. of sec. 35, East, on random line Over mts. land, asc. grad. Ridge, brs. NW. & ESE., desc. steep. 18.00 Head of gulch, course N., asc. grad.

Orig. ‡ sec. cor. brs. S. 61 lks. dist., which is a granite stone 10x5x6 ins. above ground, marked and witnessed as described by the Surveyor Keneral. 24.00 40.17 Rebuild the mound of stone 2 ft.base, la ft.high N. of cor.
True bearing of this $\frac{1}{2}$ mile is S.89°08'E. 40.17 chs. From this cor., I run, measuring from same, East, on random line, Highest point of ridge, on N. side of crest, desc. along N. side of same.
Gulch, 60 lks. wide, course WNW. 1.00 35.00 39.20 Same gulch, course WSW. Orig. cor. of secs. 1,2,35 & 36 brs. N. 5.47 chs. dist., 39,52 which is a limestone 16x4x7 ins. above ground, marked and witnessed as described by the Surveyor-General. Rebuild the mound of stone 2 ft.base, $l\frac{1}{2}$ ft.high N. of

True bearing of this \(\frac{1}{2} \) mile is N. 82°07'E., 39.90 chs.

At this cor., at noon, very windy, impracticable to

Soil, 3rd rate, stony, dry. Scrub oak, few pinons and oaks, fair grass.

Land, mts., broken, rough.

observe the lat. accurately.

1	Re-tracement of South Boundary of T. 18 S., R. 18 E. 33
Chains.	
	From the cor. of secs. 35 & 36, I run, S. of sec. 36, BOO
	East, on random line,
	Over rough, mts. land, desc.
5.10	Gulch, 30 lks. wide, course NW., asc.
	Same gulch, course WSW., asc. steep WNW. slope.
* 39 • 90	Orig. 2 sec. cor. brs. S. 12 lks. dist., which is a
	granite stone 10x4x6 ins. above ground, marked and
	witnessed as described by the Surveyor-General.
	Rebuild mound of stone 2 ft.base, la ft.high N. of cor.
	True bearing of this # mile is 8. 89 50 12., 39.90 chs. From this cor., I run, measuring from same,
	East, on random line,
2.50	Ridge, brs. NW. & SE., spur from high ridge to S., desc.
- 2000	along very brushy, broken N. side of main ridge.
40·05	Cor. of Tps. 18 & 19 S., Rs. 18 & 19 E. brs. N. 6 1ks.
	dist., which is a limestone 8x6x7 ins.above ground,
	marked and witnessed as described by the Surveyor-
	General, changed by W. H. Elliott to refer to Tps.
	18 S., Rs. 18 & 19 E., only, às described 4## 1850 € _,
	True bearing of this last \(\frac{1}{2} \) mile is \(N \cdot 89 \cdot 95 \) E \(\cdot \cdot 40 \cdot 05 \) chs \(\cdot \cdot 2 \)
	Land, broken, mts.
	Soil, 3rd rate, gravelly, stony, dry.
_	Scrub oak, pinon, fair grass. March 15, 1913.
	Comonol Dogomintion
	-General Description
	The South Boundary of T. 18 S., R. 18 E. as retraced

The South Boundary of T. 18 S., R. 18 E. as retraced by me runs over a rough broken country, sloping and draining in general to the West.

There is no timber or living water on the line.

Along the larger washes are found a few oak and cedar trees, with some mesquite wood in the lower washes.

BOUNDARIES.
T. 19 S., R. 18 E.
Latitudes, departures, and closing errors.

Tine d	agiameted	Mana haomia	rue bear'g. Dist.		Latitudes.		Departures.	
Tile o	GRIENG COM	ILMe negt: 8	Dist.	Ν.	S.	E.	W.	
			Chs.	Chs.	Chs.	Chs.	Chs.	
	Boundary,	West,	479.55				479.55	
West.		N. 0°07'E.	39 • 7 0′			0.08/	-	
		N. 0.40 E.	39 .82	39.82		0 • 47		
		N. 1°00'E.	39•94	39.94	·	0.70		
		North,	40.00	40.00				
		N. Ool8'E.	39•4 3 °	39.43		0.21		
		N. 0°24'E.	39.86	39.86		0 -0.28		
		N. 0.04 E.	39.48	39.48		0• 05°		
		North,	39.24	39.24	·			
		N. 0°16'W.	40.33	40.33			0.19	
		N. 0°03'E.	40.11	40.11		0.04		
		N. 0°36'E.	40 .3 2	40 .3 2		0.42		
		N. 0°33'E.	40.64	40.64		0.38		
touth 1	Boundary .	S. 89°44'E.	79.88		0.38			
		S.89°56'E.	40.05~			40.05		
		85.85°58'E.	41.48		2.92			
•		S.88°16'E.	40.17		1.21			
		S.89°32'E.	40.57					
		S.88°41'E.	40.30 -			- ,		
•		N. 88°04'E.	40.42~	1.36				
	Λ',	\$.89°08'E.	40.17					
·		N. 82 07'E.	39.90	5.47.				
		S.89 0 E.	39.90		0.12	39.90		
	4	N. 89°55'E.	34.49	0.05				
Cast B	dundary,		478.40			~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~		
Conver	gency,					0.43		
		Totals,		485.85	484.95	479.87		
			·	484.95		479.74	•	
		•	Error in L	st90	Error	in Dep13	i e je Kujek s	
				w.			์ ป∌₿₩.	

2475

9,2 36

Chains.

3.00

16.00

29.00 · 39• 90

True bearing of this 1 1/2 mile is N. 0°28'W., 40.18 chs. From this 1/2 sec. cor., I run, measuring from same. North, on random line,

Enter draw, course SE.

Wash, 90 lks. wide, course SSE.

Leave draw, asc. grad. Find. evident remains of orig. cor. of secs. 7,12,13 & 18 42 lks. to west of line, located by old dead bearing tree. Destroy all traces of old cor. & at same point

Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of secs. 7,12,13 & 18, marked on brass cap, T 23 S, in N. half,

R 14 E S 12 in NW.,

R 15 E S 7 in NE., S 18 in SE., and S 13 in SW. quad.; raise a mound of stone 2 ft.base, la ft.high W.of cor. No bearings available, pits impracticable. Ind. bearings available, pits impracticable. Land, rolling his 17 and rate, stony, gravelly, loose. Scrub oak, mesquite, few oak trees. At this cor., at noon, I set off 1°49 N. on the decl. arc, and observe the sun on the meridian.

The resulting lat. is 31°26' N.

From the cor. above described, I run, North, bet. secs. 7 & 12 on random line, Over heavily rolling land, asc. grad. Ridge, brs. SW. & NE., desc.

18.00 28#50 40.00

42.00

52.00 ***80.20**

Wash, 30 lks. wide, course SW., asc. grad.

No trace of orig. 4 sec. cor. found after diligent search, continue North, after setting temp. cor.

Ridge, brs. WSW. & ENE., desc.

Wash, 60 lks. wide, course WSW., asc. SE. slope.
Find remains of old cor. of secs. 1,6,7 & 12, 18 lks.
to West of line, an old post, with faint markings,
as described by the Surveyor General, which con light rough at same point

Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of secs. 1,6,7 & 12, marked on brass cap, T 23 S, in N. half,

R 14 E S 1 in NW.,

R 15 E S 6 in NE.,

S 7 in SE., and S 12 in SW. quad.;

raise a mound of stone 2 ft.base, l\(\frac{1}{2}\) ft.high W. of cor.

No bearings available, pits impracticable.

I return to my temp \(\frac{1}{2}\) for. to the S., and at \(\frac{1}{2}\) \(\frac{1}{2}\) lo chs.

on the true line of N. 0°8' W. \(\frac{1}{2}\) \(\frac{1}{2}\) is the incompost 3 ft.

long, l in. in diam. 26 ins. in the ground for \(\frac{1}{2}\) sec.

cor., marked on brass cap, \(\frac{1}{2}\) S l2 in W., and S 7 in E.

half; raise a mound of stone 2 ft.base, l\(\frac{1}{2}\) ft.high W. of cor. No bearings available. True bearing of this mile is.N. 0° 8' W., 80.20 ths.

Land, rolling, broken. Soil, 3rd rate, gravelly, dry.

Mesquite, cacti, few oak trees in gulches.

Chains. BOOK 2475 From the cor. of secs. 1,6,7 & 12, I run, North, bet. secs. 1 & 6, on random line Over heavily rolling land, asc. grad. Ridge, brs. WSW. & ENE. desc. 9.00 Gulch, 80 lks. wide, course W., Orig. 4 sec. cor. brs. West, 43 lks. dist., an old post 31.00 40.00 badly decayed, with faint markings as described by the Surveyor General, which could destroy a at same point, I Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S l in W., and

S 6 in E. half;

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

From this $\frac{1}{4}$ sec. cor., 1 7 Wh;

North continuing massurement approach line. North, continuing measurement, on random line Enter draw, course SW. 45.50 Wash, 40 lks. wide, course SW.

Leave draw, course SW., asc. grad.

Low ridge, brs. SW. & NE., desc. along W. side of same.

No trace of cor as described by the Surveyor General at this point.

Enter draw, course SSW.

Leave draw, asc. grad.

Cor. of Tps. 22 & 23 S., Rs. 14 & 15 E brs. West, '97 lks.

dist., which is a granite stone 14x10x6 ins. above 48.00 50.00 77.00 \$5.00 110.00 117.60 ground, marked and witnessed as described by the Surveyor General. True bearing of this line is N. 0°43' W.,77.60 chs. Land, broken, rolling. Soil, 3rd rate, gravelly, dry, sandy, loose. Scrub oak, cacti, few oak trees, mesquite in washes,

good grass.

March 25, 1913.

J. B. W.

portion of

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BOOK 2475
Chains.
                From the cor. of secs. 32 & 33, I run,
                East, on S. bdy. of Sec. 33, on random line, Over mts., broken land, desc.
                Wash, 18 lks. wide, course NE., thence along broken N.
    6.00
                slope, through scattering oak.
Main road, Nogeles to Patagonia, brs. NNE. & SSW.
 23.90
                Wash, 30 lks. wide, course NNE.
 26.00
                Orig. # sec. cor. brs. North, 2 lks. dist., an old post, badly decayed, marked and witnessed as described
•39•57
               by the Surveyor General, which idestroy & at same point,
Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in
the ground for ‡ sec. cor., marked on brass cap,

‡ S 33 in N., and
S # in S. half; from which, new bearings,
An oak tree 12 ins. diam. brs. N. 70°W. 76 lks. dist.,
                    marked ± S 33 B T.
Raise a mound of stone 2 ft.base, lt ft.high N.of cor.
                True bearing of this is mile is N. 89°58 E., 39.57 that From the above described for., I run, measuring from same.
               East, on random line,
 21.00
                Wash, 30 lks. wide, course N., thence along wooded N.
                    slope.
^ 39• 44
                Orig. cor. of secs. 3,4,33 & 34 brs. S. 2 lks. dist.,
                    an old decayed post, marked and witnessed as
                described by the Surveyor-General, which conlidestroy & at same point,
Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in
                   the ground for core of secs. 33 & 34, marked on brass cap, T 22 S, in Ne, 7.225-R/SE.

T 23 S, S 3, S 4, in Se, and

R 15 E; in We half;

S 33 in NWe, and
               S 34 in Nw., and
S 34 in NE. quad.; from which, new bearings,
An oak tree 14 ins.diam.brs. N.14½°W. 143 lks. dist.,
marked T 22 S R 15 E S 33 B T.

An oak tree 12 ins.diam.brs. N. 51° E. 90 lks. dist.,
marked T 22 S R 15 E S 34 B T.

Raise a mound of stone 2 ft.base, 1½ ft.high N.of cor.
True bearing of this ½ mile is S.89°58'E.,.39.44 chs.
Land, heavily rolling, broken.
Soil 3rd rate. grayelly dry
               Soil, 3rd rate, gravelly, dry.
               Scrub oak, mesquite, cacti, scattering oak trees.
                                                                           March 26, 1913.
               March 27, 1913.
               At 8h a.m., 1.m.t., at the cor. of secs. 33 & 34, above described, I set off. 2°33'N. on the decl. arc, and 31°28'N. on the
                    lat. arc, and determine a meridian with the solar.
                    Thence I run,
               East, on S. bdy. of Sec. 34, on random line
               Over mts. land, asc. grad. along NW.slope. Ridge, brs. WSW. & ENE. Desc. steep NE. slope of same ridge as above.
   8.00
 33.00
               Find evident remains of orig. $\frac{1}{4}$ sec. cor., an old decayed stake $9$ lks. to $\frac{1}{3}$ of line destroy & at same point, set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap,

$\frac{1}{4}$ S 34 in N., and

$$S$ in $S$. half; from which,
 39.83
                   An oak tree 16 ins. diam. brs. N. 8\frac{1}{4}°W. 28 lks. dist.,
                                         marked 4 S 34 B T.
                   An oak tree 10 ins. diam. brs. N. 70°E. 60 lks. dist.,
               marked $\frac{1}{2}$ S 34 B T.

True bearing of this $\frac{1}{2}$ mile is $\cdot S. 89 \cdot 52 \cdot E. $\cdot 39.83$ chs.
               From this & sec. cor., I run, measuring from same,
               East, on random line
              Gulch, 40 lks. wide, course NNW., asc. Spur, brs. NW. & SE., desc. steep. cscs. 23,34&35 Find evident remains of orig. cor. 19 lks. to N. of line, an old decayed post, which idestroy & at same. point,
25.00
 33.70
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Chains

80.00

Set an iron post 3 ft. long, 3 ins. in diam. 24ins. in the ground for cor. of secs. 34 & 35 marked on brass cap. T 22 S, in N., brass cap, T 22 S, in N.,

T 23 S, S 2, S 3, in S., and
R 15 E, in W. half;
S 34 in NW., and
S 35 in NE. quad.; from which, new bearings,

An oak tree 8 ins.diam.brs. N. 41°E. 38 lks. dist.,
marked T 22 S R 15 E S 35 B T.

An oak tree 10 ins.diam.brs.N. 44°W.110 lks. dist.,
marked T 22 S R 15 E S 34 B T.

raise a mound of stone 2 ft.base, 1½ ft.high N.of cor. True bearing of this # mile is N. 89°44'E., 39.11 chs. Land, broken, heavily rolling, mts.

Soil, 3rd rate, gravelly, dry. Scrub oak, scattering oak trees, good grass.

above described, From the cor. of secs. 34 & 35 I run,
East, on S. bdy. of Sec. 35, on random line,
Over mts. land, desc. steep.

Head of gulch, course NW., asc. steep. 12.00

18.00

28.50

33.00 40.00

Spur, brs. NW. & SE., desc.
Gulch, 20 lks. wide, course NW., asc.
Spur, brs. NNW. & SSE., desc.
No trace of orig. ‡ sec. cor. found after diligent search.
Therefore, at this point, I

Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for ½ sec. cor., marked on brass cap,

½ S 35 in N., and
S 2 in S. half;

raise a mound of stone 2 ft.base, 1 thigh Noof core No bearings available.

63.00

66.00

Spur, brs. WNW. & ESE., desc.
Head of gulch, course NW., asc, steep.
Nottracerof wrig. cor. found after diligent search.
Therefore, at this point,

Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of secs. 35, & 36, marked on brass cap, T 22 S, in N.,

T 23 S, S 1, S 2, in S., and

R 15 E, in W. half;

S 35 in NW., and S 36 in NE. quad.;

raise a mound of stone 2 ft.base, 1 ft.high N.of cor. Land, broken, mts. Soil, 3rd rate, stony, gravelly, dry.

Few oak trees, scrub oak, cacti, fair grass.

At this cor., at noon, I set off 2°36½ N. on the decl.

arc, and observe the sun on the meridian.

The resulting lat. is 31°28' N.

Note. -On the afternoon of this date, I examine sees. 25 & 36 of T. 22 S., R. 15 E., and the East two tiers of secs. of T. 23 S., R. 15 E., and find that the lands therein are very rough and mountainous and contain no land of any value for agricultural purposes. Most of this land is mineralized, and the greater portion being so rough as to be impracticable to survey, I eliminate these lands from my survey.

General Description. The west bdy. of T. 23 S., R. 15 E., and South bdy. of T. 22 S., R. 15 E. runs over heavily rolling broken Land, draining in general to the west, and southwest.

There is no timber or water along the line. Some mesquite and oak wood is found in the broader draws and along the north slopes.

March 27, 1913.

Latitu	des, departures	, and c	losing	errors.		BO	OK 2475
Line designate	ed. True bear's	Dist	Latitu	ides.	Departi	res.	2475
			NN•	S.	E.	₩•	
By the second of the second		Chs.	Chs.	Chs.	Chs.	Chs.	
S. bdy. secs. 338	&34. West,					160.00	/ /
W.bdy.sec.33,	N. 0.05. M.	80.00	80.00			79•90°	
S.bdy.sec.29,	West, N. 0003'W.		-80.00			0.07	
W.bdy.sec.29, S.bdy.sec.19,	N. 89°45 · W.	79.40				79.40	
West Boundary		40.35	40 • 35			0.35	× '
e' •	N. 0°09'W.					0.10 ¹	
	N. 0°28 W.					0.33'	
	N. 0°36'W.	39.90° 80.20				0.184	
	N. 0°37'W.		40:00	<u>/</u>		43	•
The state of the s	7, N. 0°43' W	77.60	77.60			.97	*
North Boundary	N. 89°55'E.	38.85			38 · 85		
	N.89°46'E. N.89°51'E.	39.98	0.16 0.10		39.98° 40.10		
	N. 89°33'E.		0.31		39.00		
	N. 89°58 E.		0.02		39.57	-	
	S.89°58'E	39.44		0.02	39.44		ė
	S.89°52'E			0.09	39.83		
	N. 89°44'E.	5.34	0.19		59.11°		
East Bdy. secs	East,	9•5₹			1 ,		
10,15,22,27,&		518.10		518.10	0:15		
Convergency, -	have some dates down dates date out- date. These		IL		0.30		
	· • •				-		
	Totals,		518.88	518.21	321.67	322.20	
		,	518.21		A series de la companya de la compan	321.67	
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	Error in d	ep.,				0.53	

Jase B. Wright
U. S. Surveyor.

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BOOK 2475

CERTIFICATE OF ASSISTANTS.

We, the undersigned, hereby certify upon honor that we assisted, to the best of our skill and ability,

Jesse B. Wright

U. S. Surveyor, during the periods and in the capacities or retracing or retracing all those parts or portions of Jownship Bdrs.

under Group No 17, 35 follows: RESURVEY- 05 5 bdy 7.225-R29E, E bdy 7.

225-R29E, S. bdy 7.215-R.31E, M. bdy 7.195-R.18E, Foother of W. bdy,

W. bdy, T. 235-R.15E, and portion of N. bdy 7.235-R.15E, RETRACEMENT OF

W. bdy frac. T. 245-R.29E, S. bdy T. 185-R.18E, and Ariz-New Mexica

Bdy. Line from 371 M.-378 M. and 388 M.- Mon. 71 on International Bdy.

of the Gila & Salt River Base & Meridian, in the State of Arizona

which are represented in the foregoing field notes as having been executed by him, and under his directive of the sale of th

which are represented in the foregoing field notes as having been executed by him, and under his direction; and that said a survey have been, in all respects, to the best of our knowledge and belief, well and faithfully executed.

NAME.		I	PERIOD OF	SERVIC	E.		CAPACITY.
		Begun	•		ENDED		CAI AUII I.
Frank of Mothery	Oct.	10,	1912.	Apri	1 11	,1913.	Chainman.
Samue Mennedy.	Oct.	13,	1912.	Jan.	27,	1913.	Chainman.
Edward ofright	Oct.	15,	1913.	Jan.	25,	1913.	Moundman.
William Bird	Oct.	16,	1912.	Jan.	4,	1913.	Axeman.
Charles Fast	Oct.	24,	1912.	Nov.	<i>3</i> 0,	1912.	Flagman.
JESSE N. Richardson	Nov.	8 ,	1912.	Jan. Mch.	27, 22,	19 3 3, 1913.	Axeman. Chainman.
John Je June -							Axeman.
Allen Thompson	Feb.	1,	1913.	Mch.	22,	1913.	Moundman.
June Grunde			1	MULI	2 2	エソエろ	Axeman. Chainman.
I Orman Kyman							Flagman.
William Leck	Mch.	23,	1913.	Mch.	27,	1913.	Moundman.
Sysidoro Morales							Axeman.
James H. Willer	Apr.	4,	1913.	Apr.	10,	1913.	Moundman.
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		-			. <u>.</u>		

Subscribed and certified to before me on the dates of the final service as shown above.

Jesse B. Wright
U. S. Surveyor.

FINAL OATH OF UNITED STATES SURVEYOR.

2475	Jesse B	. Wright	II S	. Surveyor, do so	lemnly swear th	at, in pursuance
and Syp	1		•	• •		
or specialin bearing date	structions rec 6th day sof the the	of Oct 1911, the 271 13th day of Jap. 1913	h day of Nov. 1912 and the 10th day	General for	have well, faith	fully, and truly,
in my own	proper person	n, and in strict	conformity wi	th said instructi	ons, the Manu	al of Surveying
Instructions	, and the laws	s of the United	or re States r surveye	traced d _u all those parts	or portions of	Township
	/		, .	225R 29E.,		• •
,		1	The same of the sa	, portion of	,	
portion of	f N. bdy. 7.	235-R15E	RETRACE	MENT OF W. B	ody. Frac. 1, 24	15R.29E.,
8. bdy. T. 18.	5. R 18 E. a	nd ArizNew/	Mex. Bdy. Line	e from 371 M	-378 M. and	388 M. –
lon: 71 on.	Internation	nal Bdy.		: 	of the G118	s Salt
River B	ase & Me	eridian, in the S	tate of	Arizona	, which a	re represented in
the foregoin solemnly sw	g field notes ear that all th	as having been ne corners of said	executed by n re or retracement.surveys.have k	ne, and under notes represented a	ny direction; a and perpetuated	nd I do further in strict accord-
		and the second s	• •	special written i		
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	, ,	inal field notes of				
mo rorogom	g are me orig	inai nota notos e	r such all voj.	Λ	_	. 0
			(lesse B	. Wrig	fit
				:		J. S. Surveyor.
Subscribed l	N. H.	lose Bhar	700	sworn to before	e me	
		·)	***************************************	191 🚓	1	
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(for	this book	follows F	APPROV	Jan Ac. JAL. H. W. H. Ellion WITED STATES ST	<i>H, U.S.Surve</i> URVEYOR GENE	eyor)
(for	this book	follows F	APPROV	Tranka AL. F W.H. Ellion	<i>H, U.S.Surve</i> URVEYOR GENE	eyor)
		follows F	APPRON	Jan Ac. JAL. H. W. H. Ellion WITED STATES ST	H, U.S.Surve urveyor Gener Iriz.	eyor) RAL, , 1914
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The for Bdrs: K	egoing field n	otes of the surv	APPRONinal Oath of the United States of the United	AL. W.H. Ellion WITED STATES ST Phoenix, A Gement of the 225-8.29E	H, U.S.Surve URVEYOR GENE Oriz. The following	Township
The for Bdrs: K R.30 E.,	egoing field n PESURYEY South & E	of follows F OFF otes of the surv OF South & L ast bodrs. T. 2	APPRON inal Oath of ice of the United States of Bolts. 7	AL. of W.H. Ellion NITED STATES SU Phoenix, A Gement of the 225-R.29E of West body.	tt, U.S.Surve URVEYOR GENE Oriz. The following T.195-R.18	Township
The for Bdrs: A R.30 E., Wilpdy: \$	egoing field n PESURYEY South & E	otes of the survers of South & Last body. The south & Last body.	APPRONGINAL OSTAL OSTAL SOLLAR STREET	Thomas And AL. If W.H. Ellion Phoenix, A Gement of the 225-R. 29 E West bdy. T. 228	H, U.S. Surve JRVEYOR GENE Triz. he following ., South bot 1.195. R.18	Township Township Township Township Township Township Township
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The for Bolrs: K R.30 E., Wildy & RETRACE Ariz-New	egoing field r PESURVEY South & E 1235-R15 MENT OF Mex. Bdy. L	otes of the survers of South & L. and portal West body. fr. ine from 37	APPRONICE OF THE UT To sey and retrained to the South The sey of South	PAL. If W.H. Ellion Phoenix, A Gement of the 22.5-R. 29 E West bdy. T. 22.8 PLIGE South 388 M-Mon.	H, U.S.Surve DRVEYOR GENE Driz. De following T. 195. P. 18 Dody. T. 185	RAL, 1914 Township T. 215- E. portion of
The for Bolrs: K R.30 E., Wildedy: B RETRACE! Ariz-New Gila & S	egoing field r ESURVEY South & E. YENT OF Mex. Bdy. L Oalt River	otes of the survers of South & Last body. fr. West body. fr. Base & Mei	APPRONINAL OSTA OF THE UT THE OF THE UT THE OF THE UT THE OF THE UT THE OF SOUTH THE OF SOUTH	AL. IN W. H. Ellion VITED STATES ST Phoenix, A Sement of the 22.5-R. 29 E West bdy. T. 22.8 PLOFE, South 2388 M-Mon. Zona.	H, U.S.Surve DRVEYOR GENE Driz. South bd J. 195-R. 18 Bdy. T. 185 J. an Interna	Township Township T. 21.5 E. Sertion of R. 18 E., and ational Bdy
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The for Bdrs: A R. 30 E., Wilded B. S.	egoing field no ESUTYEY South & E. 235-P.15 MENT OF Mex. Bdy. L. Self River Lesse B. a supplemental instruct amined, and y describe, are	otes of the survey of South & Last body from 37. Base & Men Mest by from 37. Base & Men Marght & for brought of the necessary completed the necessary completed to the necessary comp	APPRONICE OF THE UT THE OF THE UT	AL. IN ON M. Ellion VITED STATES ST Phoenix, A Gement of the 225-R. 29 E West bdy. T. 228 PLOFE, South 2388 M-Mon. zona. L. Elliott, U. 27,1912, Jan. 13,1	The following South both 1957. 185. John International Contractor U. S. Surveyor U. S. Surveyor U. S. Surveyor	RAL, 1914 Township T. 2/5- E., portion of R. /8 E., and ortional Bdy. S. veyor General.

500K 2478

CERTIFICATE OF ASSISTANTS.

stated opposite our several signatures, in surveying all those parts or portions of Jonnship Boles. Under Charle / Tass follows: E. boly F. 22.5. R. 23 E., S. boly. T. 21.5 r.R. 30 E., South and East boles. T. 21.5 r.R. 31 E. Of the Gila & Salt River Base & Meridian, in the State of Arizona which are represented in the foregoing field notes as having been executed by him, and under his direction; and that said surveys how been, in all respects, to the best of our knowledge and belief, well are saithfully executed. NAME. PERIOD OF SERVICE. BROWN. BROWN. BROWN. CAPACITY. CAPACITY. CAPACITY. CAPACITY. CAPACITY. CAPACITY. Change C. Surveys Consumers Charles Crosself. Oct 16, 1912 Nors, 1912 Communical Charles Crosself. Charles Crosself. Oct 16, 1912 2011, 1913 Communical Charles Cichard Nors, 1912 January. Charles Crosself. Capacity, 1913 Communical Charles Communical Communical Charle	William H. Ellio	tt, U. S. Sur	veyor, during the perio	ods and in the capacities
Inder Group 17 25 follows: E. bdy. T. 22.5 R. 29 E., 5. bdy. T. 21.5 r. 30 E., South and East bdr. T. 215 R. 31 E. If the Gila & Salt River Base & Meridian, in the State of Arizona which are represented in the foregoing field notes as having been executed by him, and under his dire ion; and that said survey have been, in all respects, to the best of our knowledge and belief, well ar aithfully executed. NAME. PERIOD OF SERVICE. BEAUX. PERIOD OF SERVICE. CAPACITY. BEAUX. PERIOD OF SERVICE. CAPACITY. Are C. flavor gare Oct 10, 1912 Apr. 1/1913 Clamura Trank & Shurtiff Out 16, 1912 Nov 8, 1912 Cumum Themas It shurnless Oct 16, 1912 Tet. 1/1913 Chamura Chasles Crough Oct 16, 1912 Jan 31, 1913 Cumum Balla Richard Nov 8, 1912 Jan 31, 1913 Cumum That Chasles Crough Oct 16, 1913 Jan 23, 1913 Cumum Charles Michael Jan 1, 1913 Jan 23, 1913 Cumum That Charles Medical Jan 1, 1913 Cumum Charles Michael Jan 1, 1913 Jan 23, 1913 Cumum Charles Michael Jan 1, 1913 Cumum Char	tated opposite our several signatur	es, in surveying all the	ose parts or portions of	Township Bdrs.
of the Gila & Salt River Base & Meridian, in the State of Arizona which are represented in the foregoing field notes as having been executed by him, and under his dire ion; and that said survey, have been, in all respects, to the best of our knowledge and belief, well an aithfully executed. PERIOD OF SERVICE. CAPACITY. BEGUN. ENDED. CAPACITY. Gir C + Lanagan Qot 10, 1912 Apr 11, 1913 Chomuson Robert M bommell Oct 24, 1912 Occ 24, 1912 Chomuson Thomas It shariff Oct 16, 1912 Nov 8, 1912 Chomuson Chasles Crough Oct 16, 1912 326, 1913 Chomuson Bolla Richard Mors, 1912 January, 1913 Chomuson Charles Crough Oct 16, 1912 apr 11, 1913 Chomuson Bolla Richard Mors, 1912 January, 1913 Chomuson Charles Wellson, 1913 January, 1913 Chomuson Charles Wellson, 1913 January, 1913 Chomuson Charles Wellson, 1912 January, 1913 Chomuson Charles Wellson, 1913 January, 1913 Chomuson Charles Wellson, 1913 January, 1913 Chomuson Charles Wellson, 1914 Chomuson Charles Wellson, 1915 Chomuson Charles Wellson, 19				. /
of the Gila & Salt River Base & Meridian, in the State of Arizona which are represented in the foregoing field notes as having been executed by him, and under his direction; and that said surveys have been, in all respects, to the best of our knowledge and belief, well an aithfully executed. NAME PERIOD OF SERVICE CAPACITY				
which are represented in the foregoing field notes as having been executed by him, and under his direction; and that said survey have been, in all respects, to the best of our knowledge and belief, well an aithfully executed. NAME PERIOD OF SERVICE CAPACITY				
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Subscribed and certified to before me on the dates of the final service as shown above.

William & Ellioth
U. S. Surveyor

102/

FINAL OATH OF UNITED STATES SURVEYOR.

I, William Hollist, U.S. Surveyor, do solemnly swear that, in pursuance
ond supplemental of special instructions received from the U.S. Surveyor General for Group 17, Arizona, bearing dates of the Secretary of October 1911 the 27th day of November 1912 bearing dates of the Secretary Secretary of S
bearing date of the the 13th day of January 1913 the 19th day of November 1912 bearing date of the the 18th day of January 1913 the 19th day of March 1971. I have well, faithfully, and truly,
in my own proper person, and in strict conformity with said instructions, the Manual of Surveying
Instructions, and the laws of the United States surveyed all those parts or portions of
Township Brds. under Group 17, as follows: E. bdy. T. 22 S., R. 29 E., S.bdy. T. 21 S., R. 30 E., South and East bdrs. T. 21 S., R. 31 E.,
y y = 1 strain to the strain
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of the Lula y Nath
Rungena, which are represented in
the foregoing field notes as having been executed by me, and under my direction; and I do further
solemnly swear that all the corners of said survey have been established and perpetuated in strict accord-
ance with the Manual of Surveying Instructions, and the special written instructions of the U.S. Surveyor
General for
the foregoing are the original field notes of such survey.
of in- 18811-
William & Ellist,
U. S. Surveyor.
Subscribed by said William K. Elliott , and sworn to before me)
Subscribed by said William & Ellett, and sworn to before me this 70 th day of 1913
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SURVEYOR-GENERAL OF ABIZONA
APPROVAL.
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APPROVAL. OFFICE OF THE UNITED STATES SURVEYOR GENERAL,
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