

3486

4-679

Book "H"

BCCK 3486

8-17

FIELD NOTES

OF THE RETRACEMENT OF

part of the North boundary (the West 2 miles)

OF THE RESURVEY OF

part of the Subdivision lines,

AND OF THE SURVEY OF

part of the West boundary (the North 3 miles)

and part (completion) of the Subdivision lines of

Fractional Township 19 South, Range 32 East,

Of the Gila and Salt River Base and Meridian,

In the State of Arizona

EXECUTED BY

Sidney E. Blout, U. S. Cadastral Engineer,

In the capacity of U. S. Surveyor, under Special Instructions dated October 6, 1919, issued by the United States Surveyor General to govern surveys included in Group No. 102, Arizona, which were approved by the Commissioner of the General Land Office, October 24, 1919, and Assignment Instructions dated March 28, 1921

Retracement, Resurvey and Survey commenced April 9, 1921
Retracement, Resurvey and Survey completed April 16, 1921

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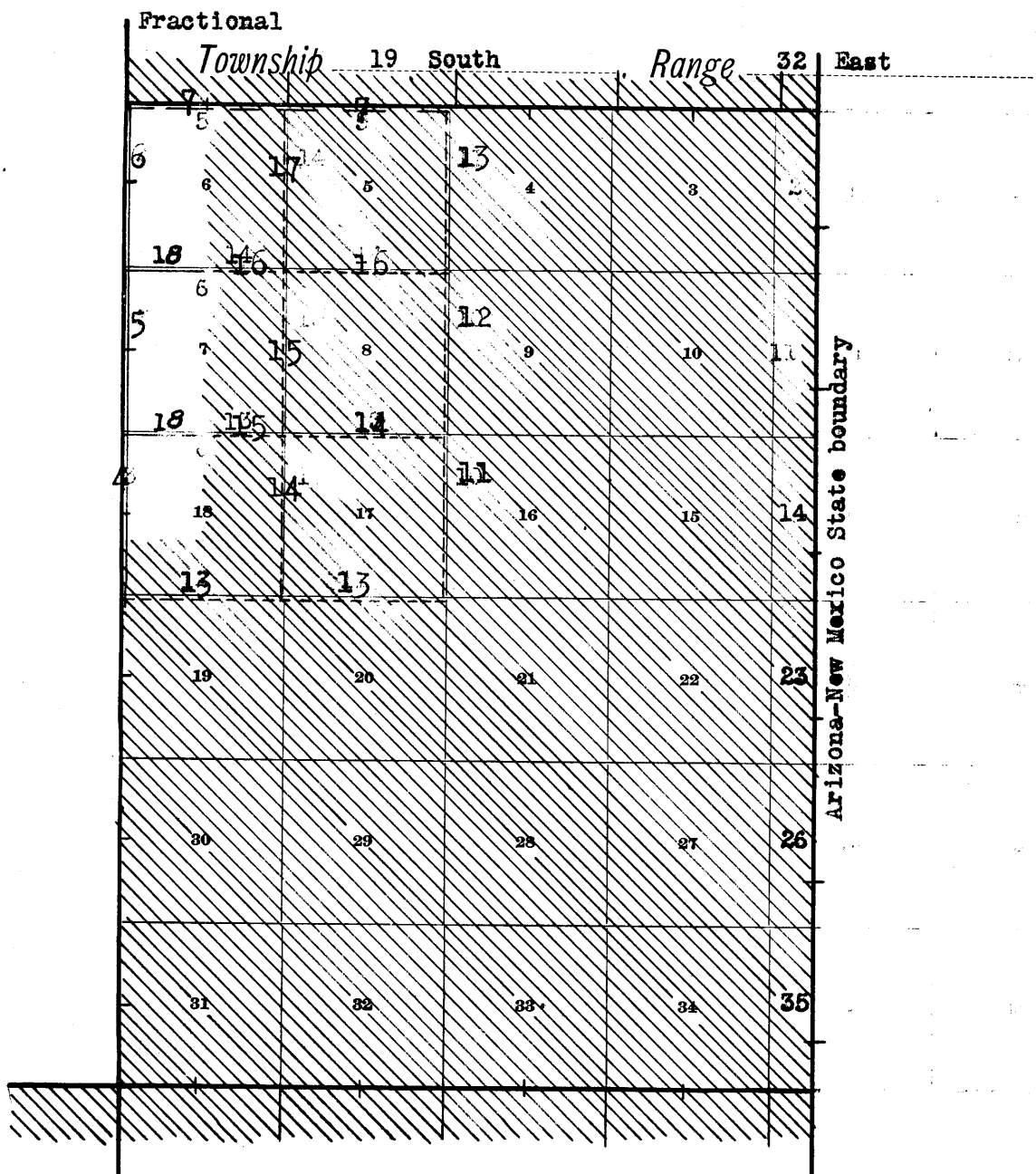
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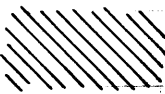
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ECCOK 3486

Book "H"
Group 102 - Arizona.

INDEX DIAGRAM.



- ==== Lines retraced under this Group.
- Lines resurveyed under this Group.
- ===== Lines surveyed under this Group.
- Accepted surveys.
-  Areas surveyed as per accepted plats on file.

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BOOK 3486

Date Diagram

Fractional Township 19 South, Range 32 East,

4-16-21	4-13-21 6	4-9-21 5	4	3	2
	4-16-21 4-15-21 7	4-13-21 4-15-21 8	4-12-21 9	10	11
	4-16-21 4-15-21 18	4-13-21 4-15-21 17	4-12-21 16	15	14
4-16-21	4-12-21	4-12-21	19	20	21
			22	23	24
			25	26	27
			28	29	30
			31	32	33
			34	35	36

Arizona-New Mexico State boundary

On the above diagram, red lines indicate surveys, dotted red lines, resurveys, and dashed red lines, retracements, all executed by Sidney E. Blout, U. S. Cadastral Engineer, on dates shown thereon, and black lines indicate accepted surveys.

Retracements, Resurveys and Surveys hereinafter described, executed on dates shown on diagram on page 1 hereof by Sidney E. Blout, U.S. Cadastral Engineer, using a Buff Solar transit No. 9984, with U-shaped standards, $4\frac{1}{2}$ inch horizontal circle, 4-inch vertical circle, and improved Smith solar attachment. All azimuth determinations are accomplished with the solar except the special observations on the sun and Polaris for meridian, upon which to test the solar apparatus.

All measurements are made with a Lufkin 5-chain steel tape, compared with a Chesterman Standard steel tape, and found correct; all measurements are made on the slope, the vertical angle determined, and the slope measurements properly reduced to true horizontal distances.

The instrument was examined, tested on the meridian at the Federal Building in Phoenix, Arizona, March 26, 1921, found correct, and was approved by the Assistant Supervisor of Surveys for Arizona, conditional upon satisfactory field tests.

April 8, 1921: Set instrument on the meridian, which is established by Polaris observations in the Town of San Simon, Arizona, March 31, 1921, and at 10h.30m., a.m., set off $32^{\circ}16'N.$ on the lat. arc; $7^{\circ}12'N.$ on the decl. arc; and determine a meridian with the solar, and mark a point thereof on the stake already set about 5 chs. N. of instrument on which the meridian falls $01\frac{1}{2}'E.$ of the meridian established by the Polaris observations.

At 2h.00m., p.m., apparent time, set off $32^{\circ}16'N.$ on the lat. arc; $7^{\circ}15\frac{1}{2}'N.$ on the decl. arc, and determine a meridian with the solar, and mark a point thereof by a nail in the stake already set, about 5 chs. N. of station; this mark falls $01'W.$ of the meridian determined by the Polaris observations.

The solar apparatus by a.m. and p.m. observations defines positions for meridians which agree within about $01\frac{1}{2}'$ with the meridian established by the Polaris observations; therefore, conclude that the adjustments of the instrument are satisfactory.

Survey of part of
West boundary of fracl. Township 19 South, Range 32 East (completion)

Chains.

The west boundary of fracl. T. 19 S., R. 32 E. was surveyed in 1884 by Walter B. Neil, U.S.D.S., and no retracement or resurvey of the line is of record. At a point 27.00 chs. N. of the cor. of secs. 13, 18, 19 and 24, Surveyor Neil discontinued the survey of the township bdy. in its true position, and offset East 40.00 chs. into sec. 18; thence North, thru. middle of secs. 18, 7 and 6, establishing cors. at intervals of 40 chs. northing from cor. of secs. 13, 18, 19 and 24, which cors. he designated as witness cors. to the corresponding cors. on the W. bdy. of Tp. This was in error, as the true position of N. half of the Tp. bdy. was too remote from such offset line to be considered as surveyed by such method, and the offset line was in reality a subdivision of section line, and the corners set thereon became center cors., and $\frac{1}{4}$ sec. cors. of the sections it traversed, and the line is so depicted on the original plat of this township, approved Oct. 14, 1884.

As it is considered desirable to establish the cors. on the North half of West bdy. of Tp. at points W. from the so-called witness cors. on said offset line, it will be necessary to retrace the offset line as a preliminary process to the survey of the Tp. bdy.

Retracement of Offset Line in Sections 6, 7, and 18.

From reestablished $\frac{1}{4}$ sec. cor. of secs. 6 and 31 on N. bdy. of Tp., hereinafter described,
South, on random line, thru. center of sec. 6.
40.00 Diligent search in this vicinity fails to reveal any trace of the original center cor. of sec. 6, and witness cor. to $\frac{1}{4}$ sec. cor. of secs. 1 and 6.
79.75 Fall 40 lks. E. of original $\frac{1}{4}$ sec. cor. of secs. 6 and 7, and witness cor. to cor. of secs. 1, 6, 7 and 12, hereinafter described.
True course and dist. of line thru. sec. 6 are therefore S. 0° 17' W., 79.75 chs.

From W.C. and $\frac{1}{4}$ sec. cor. described above,
South, on random line, thru. center of sec. 7.
40.00 Diligent search in this vicinity fails to reveal any trace of original center cor. of sec. 7, and witness cor. to $\frac{1}{4}$ sec. cor. of secs. 7 and 12.
80.00 Diligent search in this vicinity fails to reveal any trace of the original $\frac{1}{4}$ sec. cor. of secs. 7 and 18, and witness cor. to cor. of secs. 7, 12, 13 and 18,
Set temp. cor.
Continue line and measurement thru. center of sec. 18.
120.00 Diligent search in this vicinity fails to reveal any trace of the original center cor. of sec. 18, and witness cor. to $\frac{1}{4}$ sec. cor. of secs. 13 and 18.
133.00 (Record dist.) Offset point.
Thence,
West, 40.00 chs., thru. S. $\frac{1}{2}$ of sec. 18, to
133.00 (Record southing from $\frac{1}{4}$ sec. cor. of secs. 6 and 7) Offset point on W. bdy. of Tp.,
Thence,
South, on random line, continuing measurement.
159.58 A point 94 lks. E. of the original cor. of secs. 13, 18, 19 and 24 on W. bdy. of Tp., hereinafter described.
160.00 (Record southing from $\frac{1}{4}$ sec. cor. of secs. 6 and 7) A point 94 lks. E. and 42 lks. S. of original cor. of secs. 13, 18, 19 and 24, which data is a basis for adjustment for the temp. $\frac{1}{4}$ sec. cor. of secs. 7 and 18, to maintain original proportion between intervals on the offset line.
Proceed to said temp. $\frac{1}{4}$ sec. cor., and move same 47 lks. W.

Survey of part of
West boundary of frac1. Township 19 South, Range 32 East (completion)

Chains.

21 lks.N., to proper point for reestablishment of the $\frac{1}{4}$ sec.cor. of secs.7 and 18.

True course and dist. of N.and S. center line of sec.7, are therefore N.0°20'E., 79.79 chs.

The center cor. of secs.6,7 and 18 are not reestablished, as the designation of witness cor. is abandoned for all the cors. on the offset line.

From the original $\frac{1}{4}$ sec.cor. of secs.6 and 7, and from the reestablished point for $\frac{1}{4}$ sec.cor. of secs. 7 and 18, run west, 40.00 chs., and set temp. cors. for reference in establishing the sec.cors. on N. $\frac{1}{2}$ of W. bdy. of Tp., as hereinafter described,

Survey of North half of West Bdy. of frac1. T.19 S., R.32 E.

The original cor. of secs. 13, 18, 19 and 24 is a granite stone, 12x10x7 ins., above ground, loosely set, marked with 3 notches on each of N. and S. edges. No accessories.

Alongside old stone, set an iron post, 2 ins. in diam., 12 ins. in the ground, deposit marked (x) stone, and raise a mound of stone 4 ft. base, 2 ft. high, around post, for reestablished cor. of secs. 13, 18, 19 and 24, marked on brass cap,

T19S	
R31E	R32E
S13	S18
S24	S19
1921	

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

North, on a random line, on N. half of W. bdy. of frac1. T.19 S., R.32 E.

79.86 A point 36 lks. W. of temp. cor. of secs. 7, 12, 13 and 18 set at 40.00 chs. W. from reestablished point for $\frac{1}{4}$ sec. cor. of secs. 7 and 18, as hereinbefore described.

Continue line and measurement:

159.66 A point 74 lks. W. of temp. cor. of secs. 1, 6, 7 and 12 set at 40.00 chs. W. from original $\frac{1}{4}$ sec. cor. of secs. 6 and 7, as hereinbefore described.

Continue line and measurement.

239.52 Fall 84 lks. W. of the cor. of Ts. 18 and 19 S., R.31 E., and frac1. Ts. 18 and 19 S., R.32 E., reestablished by Jesse B. Wright, U.S.D.S. in 1909, which is a granite stone; 14x10x8 ins. above ground, firmly set, marked with 6 grooves on each of N., S. E. and W. faces, and witnessed by a mound of stone, S. of cor. No bearing trees.

The true course of the N. $\frac{1}{2}$ of the W. bdy. of frac1. T.19 S., R.32 E. is therefore N. 0° 12'E., and the location of the temp. sec. cors. as noted on random line gives true lengths for each mile as follows:

W. of sec. 18:	79.86 chs.
W. of sec. 7:	79.80 chs.
W. of sec. 6:	79.86 chs.

Return to the reestablished cor. of secs. 13, 18, 19 and 24, hereinbefore described.

Thence,

N. 0° 12'E., on true line, on W. bdy. of sec. 18.

Over rolling land, thru. scattering timber and undergrowth. Descend over NE. slope.

4.60 Wire fence, brs. E. and W.

15.00 Wash, 50 lks. wide, 2 $\frac{1}{2}$ ft. deep, course E. Ascend along E. slope.

24.30 Road, brs. E. and W. from ranches in Horseshow Canyon E. to Rodeo, N.M.

27.00 A point due E. of the mouth of Horseshoe Canyon.

Survey of part of
West boundary of frac1. Township 19 South, Range 32 East (completion) 5

Chains.
30.80 Wash, 30 lks. wide, 3 ft. deep, course E. Leave rolling, and
enter mountainous land. Ascend 245 ft., over SW. slope, to
39.93 (Midpoint of W. bdy. of sec. 18), Set an iron post 3 ft. long,
1 in. in diam., 8 ins. in the ground, and raise a mound
of stone, 4 ft. base, 2 ft. high around post, for $\frac{1}{4}$ sec.
cor. of sec. 18 only, marked on brass cap,

$\frac{1}{4}$ S18

1921

Raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high, E. of cor.
Ascend 840 ft., over SW. slope.
72.20 Summit of spur, from SW., forks at this point and extends
NE. and S. Descend 241 ft. over N. slope.
78.00 Gulch, course E. Descend slightly over NE. slope, to
79.86 (8 lks. W. of the temp. cor. of secs. 7 and 18, set at 40.00
chs. W. from reestablished point for $\frac{1}{4}$ sec. cor. of secs.
7 and 18),
Set an iron post, 3 ft. long, 2 ins. in diam., over a cross
(x) marked on bed rock, and raise a mound of stone, 5
ft. base, $2\frac{1}{2}$ ft. high around post, for cor. of secs. 7 and
18 only, marked on brass cap,

T19S
S 7
S18
R32E

1921

Land, rolling and mountainous.
Soil, gravelly and rocky, 3rd and 4th rate.
Timber, scattering oak.
Undergrowth, scattering scrub oak and cactus.

N. 0° 12' E., on true line, on W. bdy. of sec. 7.
Over mountainous land, thru. scattering timber and under-
growth. Descend 509 ft. over NE. slope.
30.00 Wash, 20 lks. wide in bottom of canyon, course E. Ascend
202 ft., over S. slope, to
39.90 (Midpoint of W. bdy. of sec. 7), Set an iron post, 3 ft. long,
1 in. in diam., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor.
of sec. 7 only, marked on brass cap,

$\frac{1}{4}$ S 7

1921

Raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, E. of cor.
Ascend 194 ft., over S. slope.
47.25 Spur, slopes E. Descend 474 ft., over N. slope.
70.00 Gulch, 20 lks. wide, course E. Ascend 40 ft., over S. slope, to
79.80 (18 lks. W. of temp. cor. of secs. 6 and 7, set at 40.00 chs.
W. from original $\frac{1}{4}$ sec. cor. of secs. 6 and 7) Set an
iron post, 3 ft. long, 2 ins. in diam., 6 ins. in the
ground, deposit marked (x) stone, and raise a mound of
stone, 4 ft. base, 2 ft. high around post, for cor. of
secs. 6 and 7 only, marked on brass cap,

T19S
S 6
S 7
R32E

1921

Land, mountainous. Soil, gravelly and rocky, 3rd and 4th rate,
Timber, scattering oak. Undergrowth, scattering scrub oak
and cactus.

6 Survey of part of the West boundary of Township 19 S., R. 32 E. (Completion)

Chains.

- N. $0^{\circ} 12' E.$, on a true line on W. bdy. of sec. 6.
 Over mountainous land, thru. scattering timber and undergrowth. Ascend 450 ft. over S. slope.
 25.40 Top of granite cliff, 15 ft. high, hrs. E. and W. along top of spur, sloping E. Descend 50 ft., over N. slope.
 31.50 Head of ravine, 10 lks. wide, course E. Ascend 90 ft., over S. slope, to
 39.93 (Midpoint of W. bdy. of sec. 6), Set an iron post 3 ft. long, 1 in. in diam., over cross (x) marked on bed rock, and raise a mound of stone $4\frac{1}{2}$ ft. base, $2\frac{1}{2}$ ft. high around post, for $\frac{1}{4}$ sec. cor. of sec. 6 only, marked on brass

186

1921

- Ascend 25 ft., over S. slope, to
 61.28 Spur, slopes E. Descend 464 ft. over N. slope.
 75.80 Bottom of canyon, cross dry ravine 25 lks. wide, course N. $80^{\circ} E.$ Ascend 30 ft., over SE. slope, to
 79.86 Intersect the reestablished cor. of Ts. 18 and 19 S., R. 31 E., and frac. Ts. 18 and 19 S., R. 32 E., hereinbefore described.

Land, mountainous.

Soil, gravelly, 3rd and 4th rate.

Timber, scattering oak and cedar.

Undergrowth, scattering scrub oak and cactus.

BOOK 3486

Retracement of part of N.bdy.of fracl.Township 19 South,Range 32 E. 7

Chains.

The North bdy.offracl.T.19 S.,R.32 E. was surveyed in 1884 by Walter B.Neil,U.S.D.S., establishing all cors.thereon common to areas in fracl.Ts.18 and 19 S.,R.32 E. The west two miles of this township bdy. were resurveyed by Jesse B.Wright,U.S.D.S. in 1909, reestablishing the cor.of secs.4,5,32 and 33 in its original position with same designation,and all cors.west therefrom. Surveyor Wright at the same time surveyed the subdivision lines of fracl.T.18 S., R.32 E., and established closing cors. of secs.32 and 33, 33 and 34 and 34 and 35, and changed the cor.of secs.4,5,32 and 33, and all original cors. E.therefrom,from common cors. to cors.referring to areas S.of line only.

No other retracement or resurvey of this line is of record.

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- 8.00 From the reestablished cor.of Ts.18 and 19 S.,R.31 E.,and fracl.Ts.18 and 19 S.,R.32 E.,hereinbefore described, S.89°47'E.(record course) on random line,bet.secs.0 and 31(W.½). Over mountainous land thru scattering timber & undergrowth. Desc. 85 ft. over E.slope to Wash,50 lks.wide,4 ft.deep,course N.70°E. Leave mountainous,and enter rolling land. Descend 215 ft.,over SE.slope to ¼ sec.cor.
- 20.00 Cor.of wire fence, brs.S.50 lks.dist.,from which fence extends E.and S. Thence nearly parallel to said fence, and 50 lks.N.therefrom.
- 40.28 Fall 9 lks.S.of the reestablished ¼ sec. cor. of secs.6 and 31, which is a granite boulder, 10x10x8 ins.above ground, firmly set, marked "4" on N.face, and witnessed by a mound of stone, N.of cor. No bearing trees. True course and dist. of W.½ of line bet. secs.0 and 31 are therefore,S.89° 55'E.,40.28 chs. Thence, S.89°47'E. (record course),on random line, bet. secs.0 and 31(E.½).
- 40.18 Over rolling land, thru. scattering timber and undergrowth, nearly parallel to wire fence, 50 lks.S. of line. Descend 150 ft.,over E.slope,to Intersect the reestablished cor.of secs.5,6,31 and 32,which is a granite stone,10x10x8 ins. above ground, firmly set, marked with 1 notch on W.face,and 5 notches on E. face, and witnessed by a mound of stone, W.of cor. No bearing trees. True course and dist. of E.½ of line, bet. secs.6 and 31, are therefore S.89°47'E.,40.18 chs. Land,mountainous and rolling. Soil,gravelly and stony, 3rd and 4th rate. Timber, scattering oak. Undergrowth, scattering scrub oak, mesquite and catclaw.

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- 39.50 S.89°47'E.,(record course) on random line on N.bdy.of sec.5 (W.½). Over rolling land,thru.scattering undergrowth,nearly parallel to wire fence S.of line,about 50 lks.dist. Descend gradually over E.slope,to Fall 18 lks.S.of the reestablished ¼ sec.cor.of secs.5 and 32, which is a granite 10x8x8 ins. above ground, firmly set, marked "4" on N.face, and witnessed by a mound of stone, N.of cor. No bearing trees. True course and dist. of W.½ of N.bdy. of sec.5 are therefore N.89° 57'E.,39.50 chs. Thence, S.89°47'E. (record course) on random line, on N.bdy.of sec.5 (E.½). Over rolling land, thru.scattering undergrowth. Descend gradually over SE.slope, nearly parallel to wire fence, 40 lks.S. of line.

8 Retracement of N.bdy. of fracl. Township 19 South, Range 32 East.

Chains.

- .50 Fence cor. brs. S. 40 lks. dist., from which fences extend E., W. and S.
- 40.20 Fall 5 lks. N. of the reestablished cor. of secs. 4 and 5, which is a granite stone, 16x10x5 ins. above ground, loosely set, marked with 2 notches on W. face, and 4 notches on E. face. No accessories.
- Alongside the old stone, set an iron post, 3 ft. long, 2 ins. in diam., 24 ins. in the ground, for reestablished cor. of secs. 4 and 5 only, marked on brass cap,

T18S R32E
S32

S 5 S 4
T19S R32E

1921

Raise a mound of stone, 3 ft. base, $2\frac{1}{2}$ ft. high, S. of cor.
True course & dist. of E. of N. bdy. sec 5 are therefore S. 89°43' E.
40.20 chs.

Land, rolling.

Soil, gravelly, 3rd rate.

No timber.

Undergrowth, scattering scrub oak and mesquite.

Resurvey of part of the
Subdivision lines of fracl. Township 19 South, Range 32 East.

Chains	All of the Subdivision lines of this township with the exception of the $W. \frac{1}{2}$ of line bet. secs. 7 and 18, and $W. \frac{1}{2}$ of line bet. secs. 6 and 7, were surveyed in 1884, by Walter B. Neil, U. S. D. S., and no retracement or resurvey of such lines is of record.
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<u>Retracement for Resurvey.</u>	
Begin at the original cor. of secs. 16, 17, 20 and 21, hereinafter described.	
Thence,	
North, on random line, bet. secs. 16 and 17.	
40.00	Diligent search in this vicinity fails to reveal any trace of the original $\frac{1}{4}$ sec. cor. Set temp. cor.
79.95	Fall 114 lks. W. of the original cor. of secs. 8, 9, 16 and 17, hereinafter described.
True course and dist. of line, bet. secs. 16 and 17 are therefore, N. $0^{\circ} 48'$ E., 79.96 chs.	
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From original cor. of secs. 8, 9, 16 and 17,	
North, on random line, bet. secs. 8 and 9.	
40.00	Diligent search in this vicinity fails to reveal any trace of the original $\frac{1}{4}$ sec. cor. Set temp. cor.
79.95	Fall 114 lks. W. of the accepted point of original location of the cor. of secs. 4, 5, 8 and 9, hereinafter described.
True course and dist. of line, bet. secs. 8 and 9, are therefore N. $0^{\circ} 48'$ E., 79.96 chs.	
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From the original cor. point of secs. 4, 5, 8 and 9.	
N. $0^{\circ} 6'$ W. (record course) on random line, bet. secs. 4 & 5.	
40.00	Diligent search in this vicinity fails to reveal any trace of the original $\frac{1}{4}$ sec. cor. Set temp. cor.
79.98	Fall 8 lks. E. of the cor. of secs. 4 and 5, established by Walter B. Neil, U. S. D. S. in 1884, as cor. of 4 secs. and changed to its present designation and description by Jesse B. Wright, U. S. D. S., in 1909, when he resurveyed the west two miles of this Tp. bdy. and surveyed the subdivisional lines of fracl. T. 18 S., R. 32 E. This cor. is again reestablished as hereinbefore described in notes of retracement of part of the N. bdy. of fracl. T. 19 S., R. 32 E.
True course and dist. of line, bet. secs. 4 and 5 are therefore S. $0^{\circ} 9'$ E., 79.98 chs.	
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From original cor. of secs. 16, 17, 20 and 21, hereinafter described.	
West, on a random line, bet. secs. 17 and 20 ($E. \frac{1}{2}$).	
40.14	Fall 30 lks. S. of the original $\frac{1}{4}$ sec. cor., hereinafter described.
True course and dist. of $E. \frac{1}{2}$ of line, bet. secs. 17 and 20, are therefore N. $89^{\circ} 34'$ W., 40.14 chs.	
Thence,	
West, on random line, bet. secs. 17 and 20 ($W. \frac{1}{2}$).	
40.14	Fall 16 lks. S. of the original cor. of secs. 17, 18, 19 and 20, hereinafter described.
True course and dist. of $W. \frac{1}{2}$ of line bet. secs. 17 and 20 are therefore N. $89^{\circ} 46'$ W., 40.14 chs.	
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From original cor. of secs. 17, 18, 19 and 20, hereinafter described.	
N. $89^{\circ} 50'$ W., on a random line, bet. secs. 18 and 19 ($E. \frac{1}{2}$).	
39.90	Fall 2 lks. S. of the original $\frac{1}{4}$ sec. cor., hereinafter described.
True course and dist. of $E. \frac{1}{2}$ of line, bet. secs. 18 and 19, are therefore, S. $89^{\circ} 48'$ E., 39.90 chs.	
Thence,	
N. $89^{\circ} 50'$ W., on a random line, bet. secs. 18 and 19 ($W. \frac{1}{2}$).	
39.02	Fall 2 lks. S. of the reestablished cor. of secs. 13, 18, 19 and 24, on W. bdy. of Tp., hereinbefore described.
True course and dist. of $W. \frac{1}{2}$ of line, bet. secs. 18 and 19, are therefore S. $89^{\circ} 48'$ E., 39.02 chs.	
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10 Resurvey of part of the
Subdivision lines of frac'l. Township 19 South, Range 32 East.

Chains	Retracement for Resurvey (Cont'd)
	From original cor. of secs. 17, 18, 19 and 20, hereinafter described.
	North, on random line, bet. secs. 17 and 18.
40.00	Diligent search in this vicinity fails to reveal any trace of the original $\frac{1}{4}$ sec. cor. Set temp. cor.
80.00	Diligent search in this vicinity fails to reveal any trace of the original cor. of secs. 7, 8, 17 and 18. Set temp. cor. of said secs. Continue line and measurement bet. secs. 7 and 8.
120.00	Diligent search in this vicinity fails to reveal any trace of original $\frac{1}{4}$ sec. cor. Set temp. cor.
160.00	Diligent search in this vicinity fails to reveal any trace of the original cor. of secs. 5, 6, 7 and 8. Set temp. cor. of said secs.
	Continue line and measurement bet. secs. 5 and 6.
200.00	Diligent search in this vicinity fails to reveal any trace of the original $\frac{1}{4}$ sec. cor. Set temp. cor.
239.64	Intersect E. and W. line, 253 lks. W. of reestablished cor. of secs. 5, 6, 31 and 32; on N. bdy. of Tp., hereinbefore described.
	To maintain original proportion between cor. intervals on this meridional sec. line, the proper intervals for reestablishment of the missing sec. and $\frac{1}{4}$ sec. cors. are as follows:
	N. $\frac{1}{4}$ bet. secs. 5 and 6: 39.79 chs., and
	5 other intervals of 39.97 chs. each.
	From point of intersection, return on random line, adjusting the position of each temp. cor. in such manner as to produce said proportional intervals thereon.

	From original cor. of secs. 8, 9, 16 and 17, hereinafter described.
	West, on random line, bet. secs. 8 and 17.
39.96	(Record dist.) Diligent search in this vicinity fails to reveal any trace of the original $\frac{1}{4}$ sec. cor. Set temp. cor.
79.92	(Record dist.) Diligent search in this vicinity fails to reveal any trace of the original cor. of secs. 7, 8, 17 and 18. Set temp. cor. of said secs.
	Continue line and measurement, bet. secs. 7 and 18 (E. $\frac{1}{4}$).
81.39	A point 56 lks. S. of the adjusted temp. cor. of secs. 7, 8, 17 and 18, set at 79.94 chs. N. from cor. of secs. 17, 18, 19 and 20, as hereinbefore described.
	Continue line and measurement.
119.64	Intersect N. and S. line 76 lks. S. of the reestablished point for $\frac{1}{4}$ sec. cor. of secs. 7 and 18, determined as hereinbefore described in notes of survey of W. bdy. of Tp.
	To maintain original proportion bet. cor. intervals on this latitudinal sec. line, the proper intervals for reestablishment of the missing sec. cor. and $\frac{1}{4}$ sec. cor. are as follows:
	E. half bet. secs. 7 and 18: 40.04 chs. and
	E. and W. halves bet. secs. 8 and 17: 39.80 chs. each.
	From point of intersection, return on random line, adjusting the position of each temp. cor. in such manner as to produce said proportional intervals thereon.

	From original cor. point of secs. 4, 5, 8 and 9, hereinafter described.
	West, on random line, bet. secs. 5 and 8.

Resurvey of part of the
Subdivision lines of fracl. Township 19 South, Range 32 East. 11

Chains. **Retracement for Resurvey (Cont'd.)**
40.06 (Record dist.) Diligent search in this vicinity fails to reveal any trace of the original $\frac{1}{4}$ sec.cor. Set temp. cor.
80.12 (Record dist.) Diligent search in this vicinity fails to reveal any trace of the original cor.of secs.5,6,7 and 8. Set temp. cor.of said secs.
82.43 Continue line and measurement, bet. secs.6 and 7 (E. $\frac{1}{2}$). A point 47 lks.S. of the adjusted temp.cor. of secs.5,6,7 and 8, set at 159.88 chs. N.from cor. of secs.17,18,19 and 20, as hereinbefore described.
120.42 Continue line and measurement. Intersect N. and S. line at a point 45 lks.S.of the original $\frac{1}{4}$ sec.cor. of secs.6 and 7, hereinafter described. To maintain original proportion bet.cor.intervals on this latitudinal sec.line, the proper intervals for reestablishment of the missing sec.cor.,and $\frac{1}{4}$ sec.cor. are as follows:

E.half bet.secs.6 and 7: 40.22 chs.,and
E.and W. halves bet.secs.5 and 8: 40.10 chs. each,
From point of intersection, return on random line, adjusting the position of each temp.cor. in such manner as to produce said proportional intervals thereon.

As a result of the retracement described in the foregoing notes, the points for reestablishment of the missing sec.cors. are determined as follows:

The point for reestablishment of missing cor.of secs.7,8,17 and 18 is at 179. lks.E.from adjusted temp.cor.of said secs.,on random meridional sec.line,and 56 lks. N. from adjusted temp.cor. of said secs. on random latitudinal sec.line.

The point for reestablishment of missing cor.of secs.5,6,7 and 8 is at 213 lks.E.from adjusted temp.cor. of said secs. on random meridional sec. line, and 47 lks. N.from adjusted temp.cor. of said secs.on random latitudinal sec.line.

The true courses and lengths of the sec.lines resulting from these reestablished points are as follows:

Line bet.secs.17 and 18: N.19°17'E., 79.95 chs.
Line bet.secs.8 and 17: N.89°30'W., 79.00 chs.
E. $\frac{1}{2}$ of Line bet.secs.7 and 18: S.89°43'E., 40.04 chs.
Line bet.secs.7 and 8: N.0°19'E., 79.94 chs.
Line bet.secs.5 and 8: N.89°40'W., 80.20 chs.
E. $\frac{1}{2}$ of Line bet. secs.6 and 7: N.89°58'E., 40.22 chs.
Line bet. secs.5 and 6: S.0°13'W., 79.76 chs.

RESURVEY.

The original cor. of secs. 16,17,20 and 21, is a granite stone, 14x10x8 ins. above ground, firmly set, marked with 4 notches on E.face and 3 notches on S.face. No trace of the pits and mound of earth recorded as accessories to this cor. Raise a mound of stone, 2 ft.base, 1 $\frac{1}{2}$ ft. high, W.of cor.

Thence,

N.0°48'E., on a true line, bet.secs.16 and 17.

Over rolling land, thru scattering undergrowth.

1.18 Wire fence, bss.E.and W.

8.58 Wash, 20 lks.wide, 2 ft.deep, course E.

28.48 Wash, 20 lks.wide, 3 ft.deep, course E.

35.58 Wash, 15 lks.wide, 2 ft.deep, course E.

39.98 (Proportional dist.) Set an iron post, 3 ft.long, 1 in.in diam., 26 ins.in the ground, for reestablished $\frac{1}{4}$ sec.cor. of secs.16 and 17, marked on brass cap,

12 Resurvey of part of Subdivision lines of facl. T.19 S. R.32 E.

Chains.

$$\begin{array}{c} \frac{1}{4} \\ \text{S17} \mid \text{S16} \\ 1921 \end{array}$$

43.00 Raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
 53.88 Wash, 15 lks. wide, $2\frac{1}{2}$ ft. deep, course E.
 59.78 Road, brs. NE and SW.
 70.00 Wash, 20 lks. wide, course E.
 77.58 Wash, 14 lks. wide, 3 ft. deep, course S. 70° E.
 79.96 Old road, brs. E. and W.
 Intersect the evident remains of the original cor. of secs.
 8, 9, 10 and 17, which is a decayed post broken off at
 the surface of the ground, with distinct remains of
 old earth mound around same. Alongside the old post,
 set an iron post, 3 ft. long, 2 ins. in diam., 24 ins.
 in the ground for reestablished cor. of secs. 8, 9, 10 and
 17, marked on brass cap,

$$\begin{array}{c} \text{T19S} \mid \text{R32E} \\ \text{S 8} \mid \text{S 9} \\ \text{S17} \mid \text{S16} \\ 1921 \end{array}$$

Raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
 Land, rolling.
 Soil, sandy and stony, 3rd rate.
 No timber.
 Undergrowth, scattering mesquite and greasewood.

9.00 N. $0^{\circ}48'$ E., on a true line, bet. secs. 8 and 9.
 34.85 Over gently rolling land, thru. scattering undergrowth.
 36.80 Rocky wash, 20 lks. wide, 3 ft. deep, course N. 70° E.
 37.30 Wire fence, brs. E and W.
 39.00 Earth reservoir, brs. E. 100 lks. dist.
 39.62 Windmill belonging to Willard Doney, brs. E. 40 lks. dist.
 39.98 Willard Doney's house brs. E. 150 lks. dist.
 Wire fence brs. E. and W.
 (Proportional dist.), Set an iron post, 3 ft. long, 1 in.
 in diam., 20 ins. in the ground, for reestablished $\frac{1}{4}$ sec.
 cor. of secs. 8 and 9, marked on brass cap,

$$\begin{array}{c} \frac{1}{4} \\ \text{S 8} \mid \text{S 9} \\ 1921 \end{array}$$

40.58 Raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
 41.18 Wash, 25 lks. wide, 2 ft. deep, course N. 70° E.
 58.00 Leave undergrowth; enter plowed land brs. E. 20 chs. and
 W. 15 chs. dist.
 79.96 Leave plowed land, brs. E. 20 chs. and W. 10 chs. dist.; enter
 undergrowth.
 Intersect the point of original location of cor. of secs.
 4, 5, 8 and 9, pointed out to me by J. F. Bull and Willard
 Doney, nearby settlers, and by their testimony accepted
 as the point for reestablishment of the cor., especially
 as the location of this point in reference to the
 original cors. N., S. and W. agrees substantially with
 record.
 Set an iron post, 3 ft. long, 2 ins. in diam., 24 ins. in
 the ground; for reestablished cor. of secs. 4, 5, 8 and 9,
 marked on brass cap,

$$\begin{array}{c} \text{T19S} \mid \text{R32E} \\ \text{S 5} \mid \text{S 4} \\ \text{S 8} \mid \text{S 9} \\ 1921 \end{array}$$

Chains.

Raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
Land, gently rolling.
Soil, sandy and gravelly, 2nd and 3rd rate.
No timber.
Undergrowth, scattering mesquite and greasewood.

From the reestablished cor. of secs. 4 and 5 on N. bdy. of
Tp., hereinbefore described,
S. $0^{\circ}09'E.$, on a true line, bet. secs. 4 and 5.
Over rolling land, thru. scattering undergrowth. Descend
gradually over SE. slope.

.38 Wire fence, brs. E. and W.
18.70 Road from J. F. Bull's ranch to Rodeo, N. M., brs. E. and W.
19.00 Wash, 6 lks. wide, 2 ft. deep, course E. Thence over rolling
E. slope.
23.40 Road to Rodeo, New Mexico, from Horseshoe Canyon, brs. NE.
and SW.
40.06 (Proportional dist.) Set an iron post 3 ft. long, 1 in. in
diam., 26 ins. in the ground for reestablished $\frac{1}{4}$ sec. cor.
of secs. 4 and 5, marked on brass cap.

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

1921

40.10 Raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
Wire fence brs. E. and W.
79.98 Intersect the reestablished cor. of secs. 4, 5, 8 and 9.
Land, gently rolling.
Soil, sandy and gravelly, 2nd and 3rd rate.
No timber.
Undergrowth, scattering mesquite and greasewood.

From the original cor. of secs. 16, 17, 20 and 21,
N. $89^{\circ}34'W.$, on true line, bet. secs. 17 and 20,
Over gently rolling land, thru. scattering undergrowth. As-
cend gradually over E. slope.

6.25 Wire fence, brs. N. and S., corners at about 100 lks. N. and
extends E.
40.14 Intersect the original $\frac{1}{4}$ sec. cor. of secs. 17 and 20, which
is a granite stone, 15x8x6 ins. above ground, loosely
set, marked "1" on N. face. No trace of the recorded
accessory, a mound of stone N. of cor.
Reset the same stone in its original position 10 ins. in
the ground, and raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft.
high, N. of cor.

Thence,
N. $89^{\circ}45'W.$, on a true line, continuing measurement of
line, bet. secs. 17 and 20.
Over gently rolling land, thru. scattering undergrowth.
Ascend gradually over E. slope.
80.28 (40.14 chs. N. $89^{\circ}45'W.$, from $\frac{1}{4}$ sec. cor.) Intersect the
original cor. of secs. 17, 18, 19 and 20, which is a gran-
ite stone 8x6x4 ins. above ground, firmly set, mark-
ed with 5 notches on E. face and 3 notches on S. face.
No accessories. Raise a mound of stone 2 ft. base, $1\frac{1}{2}$
ft. high, W. of stone. Land, gently rolling.
Soil, sandy and gravelly, 2nd and 3rd rate.
No timber.
Undergrowth, scattering mesquite and greasewood.

From reestablished cor. of secs. 13, 18, 19 and 24, on W. bdy.
of Tp., hereinbefore described,
S. $89^{\circ}48'E.$, on a true line, bet. secs. 18 and 19.
Over gently rolling land, thru. scattering undergrowth.

14 Resurvey of part of Subdivision lines of frac.T.19 S. R.32 E.

Chains.	Descend gradually over E.slope.
32.20	Wire fence brs. N. and S.
39.02	Intersect the evident remains of the original $\frac{1}{4}$ sec.cor. which is an earth mound, with remains of two pits, E. and W. of mound. No trace of old stake can be found. Destroy the mound of earth, and at a point midway between the pits, set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for reestablished $\frac{1}{4}$ sec. cor. of secs. 18 and 19, marked on brass cap,
	$\begin{array}{r} \frac{1}{4} \text{ S. 18} \\ \hline \text{S 19} \\ 1921 \end{array}$
78.92	Raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor. Continue line and measurement. (39.90 chs. $\frac{1}{4}$ S. $89^{\circ}48'E.$ from $\frac{1}{4}$ sec. cor.,) Intersect the reestablished cor. of secs. 17, 18, 19 and 20, Land, gently rolling. Soil, sandy and gravelly, 2nd and 3rd rate. No timber. Undergrowth, scattering mesquite and greasewood.

14.05	N. $1^{\circ}17'E.$ on a true line, bet. secs. 17 and 18. Over gently rolling land, sloping E., thru. scattering undergrowth.
39.97	Wash, 30 lks. wide, 3 ft. deep, course N. $80^{\circ}E.$ (Proportional dist.), Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground for reestablished $\frac{1}{4}$ sec. cor. of secs. 17 and 18, marked on brass cap,
	$\begin{array}{r} \text{S18} \mid \text{S17} \\ \hline 1921 \end{array}$
49.80	Raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Road, from Horseshoe Canyon, to Rodeo, New Mexico, brs. E. and W.
54.00	Wash, 20 lks. wide, 3 ft. deep, course E.
63.80	Road from Horseshoe Canyon to Rodeo, New Mexico, brs. NE. and SW.
70.00	Rocky wash, 25 lks. wide, 3 ft. deep, course N. $70^{\circ}E.$
79.90	Wash, 25 lks. wide, 2 ft. deep, course NE.
79.95	(79.94 chs. northing) Intersect point for reestablishment of cor. of secs. 7, 8, 17 and 18, determined as hereinbefore described in notes of Retracement for Resurvey, at which point, Set an iron post 3 ft. long, 2 ins. in diam., 24 ins. in the ground, for reestablished cor. of secs. 7, 8, 17 and 18, marked on brass cap,
	$\begin{array}{r} \text{T19S} \mid \text{R32E} \\ \hline \text{S. 7} \mid \text{S 8} \\ \hline \text{S18} \mid \text{S17} \\ 1921 \end{array}$
	Raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Land, gently rolling. Soil, sandy and gravelly, 2nd and 3rd rate. No timber. Undergrowth, scattering mesquite and greasewood.

39.80	From the reestablished cor. of secs. 8, 9, 16 and 17, hereinbefore described, N. $89^{\circ}36'W.$, on a true line, bet. secs. 8 and 17. Over gently rolling land, thru. scattering undergrowth. Ascend gradually over E. slope. (Proportional dist.), Set an iron post, 3 ft. long, 1 in.

Resurvey of part of Subdivision lines of frac1.T.19 S.,R.32 E. 15

Chains.

in diam., 26 ins. in the ground, for reestablished $\frac{1}{4}$ sec.cor., marked on brass cap,

$\frac{1}{4}$ S 8
S 17
1921

52.80 Raise a mound of stone, 2 ft.base, $1\frac{1}{2}$ ft.high, N.of cor. Ascend gradually over NE.slope.
70.70 Road from Horseshoe Canyon to Rodeo, New Mexico, brs.NE. and SW.
79.55 Wash, 30 lks.wide, 2 ft.deep, course N.70°E.
79.60 Wash, 25 lks.wide, 2 ft. deep, course NE.
Intersect the reestablished cor.of secs.7,8,17 and 18.
Land,gently rolling.
Soil,sandy and gravelly, 2nd and 3rd rate.
No timber.
Undergrowth, scattering mesquite and greasewood.

At the reestablished point for $\frac{1}{4}$ sec.cor. of secs.7 and 18, determined as hereinbefore described in notes of survey of W. bdy. of 4p., reestablish said cor. as follows:
Set an iron post, 3 ft.long, 1 in. in diam., 26 ins. in the ground, for reestablished $\frac{1}{4}$ sec.cor. of secs.7 and 18, marked on brass cap,

$\frac{1}{4}$ S 7
S 18

raise a mound of stone 3 ft.base, $1\frac{1}{2}$ ft.high, N.of cor. Thence,
S.89° 43' E. on a true line, bet. secs.7 and 18 (E. $\frac{1}{2}$). Over gently rolling land, thru. scattering undergrowth. Descend gradually over NE.slope.
38.25 Road from Horseshoe Canyon to Rodeo, New Mexico, brs.NE. and SW.
40.04 Intersect the reestablished cor. of secs.7,8,17 and 18, Land,gently rolling.
Soil,sandy and gravelly, 2nd and 3rd rate.
No timber.
Undergrowth, scattering mesquite and greasewood.

N.0°19'E., on a true line, bet. secs.7 and 8. Over gently rolling land, thru. scattering undergrowth, along NE.slope.

.40 Road from Horseshoe Canyon to Rodeo, New Mexico, brs.NE. and SW.
14.30 Wire fence, brs.E.and W.
39.97 (Proportional dist.) Set an iron post, 3 ft.long, 1 in. in diam., 26 ins. in the ground, for reestablished $\frac{1}{4}$ sec.cor. of secs.7 and 8, marked on brass cap,

$\frac{1}{4}$ S 7 S 8
1921

51.00 Raise a mound of stone, 2 ft.base, $1\frac{1}{2}$ ft.high, W.of cor.
74.60 Wash, 10 lks.wide, course N.75°E.
79.94 Wire fence, brs. E.and W. Cors.at 2 chs.W., and extends N. Intersect point for reestablishment of cor. of secs.5,6, 7 and 8, determined as hereinbefore described in notes of retracement for resurvey, at which point
Set an iron post, 3 ft.long, 2 ins. in diam., 24 ins. in the ground for reestablished cor.of secs.5,6,7 and 8,

16 Resurvey of part of Subdivision lines of fracl. T.19 S., R.32 E.

Chains.

marked on brass cap,

T19S	R32E
S 6	S 5
S 7	S 8

1921

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

Soil, sandy and gravelly, 2nd and 3rd rate.

No timber.

Undergrowth, scattering mesquite and greasewood.

From the reestablished cor. of secs. 4, 5, 8 and 9, herein-
before described,

N. $89^{\circ}40'$ W., on true line, bet. secs. 5 and 8.

Over gently rolling land, thru. scattering undergrowth,
nearly parallel to and 40 lks. S. of wire fence. As-
cend gradually over E. slope.

40.10 (Proportional dist.) Set an iron post, 3 ft. long, 1 in.
in diam., 26 ins. in the ground, for reestablished $\frac{1}{4}$
sec. cor. of secs. 5 and 8, marked on brass cap,

$\frac{1}{4}$ S	5
S	8

1921

40.20 Raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor.
Wire fence, brs. N. and S. at 6 lks. S. of intersection
with fence line, brs. E. and W.

40.90 Road from Horseshoe Canyon to Rodeo, New Mexico, brs. N.

43.00 J. F. Bull's house brs. N. about 20 chs. dist.

47.60 Enter cultivated land, brs. N. and S.

48.70 Wire fence brs. N. and S.

64.20 Leave cultivated land, brs. N. and S.

80.20 Intersect the reestablished cor. of secs. 5, 6, 7 and 8.
Land, gently rolling.

Soil, sandy and gravelly, 2nd and 3rd rate.

No timber.

Undergrowth, scattering greasewood and mesquite.

The original $\frac{1}{4}$ sec. cor. of secs. 6 and 7 and witness cor.
of secs. 1, 6, 7 and 12 is a granite stone, $12 \times 8 \times 0$ ins.
above ground, loosely set, marked "WC" on E. face, 1
notch on N. face, and 5 notches on S. face. No access-
ories. As this stone is no longer a witness cor.,
obliterate the old markings. Alongside old stone,
set an iron post, 3 ft. long, 1 in. in diam., 26 ins.
in the ground, for reestablished $\frac{1}{4}$ sec. cor. of secs.
6 and 7, marked on brass cap,

$\frac{1}{4}$ S	6
S	7

1921

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

N. $89^{\circ}58'$ E., on a true line, bet. secs. 6 and 7 (E. $\frac{1}{2}$).

Over rolling land, thru. scattering undergrowth. Descend
gradually over NE. slope.

34.00 Wash, 10 lks. wide, course N. 70° E.

37.10 Wire fence, brs. N. and S.

40.22 Intersect the reestablished cor. of secs. 5, 6, 7 and 8.

Land, rolling.

Soil, gravelly and rocky, 3rd rate.

No timber.

Undergrowth, scattering greasewood.

Resurvey of part of Subdivision lines of fracl. T.16 S., R.32 E.

Chains.

From the reestablished cor. of secs. 5, 6, 31 and 32, on N. bdy. of Tp., hereinbefore described.
S. 0° 13' W., on true line, bet. secs. 5 and 6.
Over gently rolling land, thru. scattering undergrowth.
Along E. slope.
18.39 Wash, 20 lks. wide, 3 ft. deep, course N. 80° E.
39.79 (Proportional dist.) Set an iron post, 3 ft. long, 1 in. in diam., 20 ins. in the ground, for reestablished $\frac{1}{4}$ sec. cor. of secs. 5 and 6, marked on brass cap,

S 0° 13' W
1921

Raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.
39.90 Wire fence, brs. E. and W.
60.69 Wire fence, brs. E. and W.
69.19 Wire fence, brs. E. and W. corners at 40 lks. W. and extends S.
79.76 Intersect the reestablished cor. of secs. 5, 6, 7 and 8.
Land, gently rolling.
Soil, sandy and gravelly, 2nd and 3rd rate.
No timber.
Undergrowth, scattering greasewood and mesquite.

Boundaries of that part of Frac. T. 19 S., R. 32 E., embraced within the surveys and resurveys hereinbefore described.

Latitudes, Departures, and Closing Errors.

Line designated.	True course.	Dist.	Latitudes.		Departures.	
			N.	S.	E.	W.
Subdivisional Boundary,	S. 0° 9' E.	79.98		79.98	.21	
	S. 0° 48' W.	159.92		159.90		2.28
	N. 89° 34' W.	40.14	.30			40.14
	N. 89° 40' W.	40.14	.16			40.14
	N. 89° 48' W.	78.92	.28			78.92
West Boundary,	N. 0° 12' E.	239.52	239.52		.84	
North Boundary,	S. 89° 55' E.	40.28		.06	40.28	
	S. 89° 47' E.	40.18		.15	40.18	
	N. 89° 57' E.	39.50	.03		39.50	
	S. 89° 43' E.	40.20		.20	40.20	
Convergency,					.07	
Totals,			240.29	240.29	161.28	161.48
				240.29		161.28
Error in latitude,			0.00			
Error in departure,			0.20			

18

Survey of Subdivision lines of fracl. T.19 S..R.32 E.(completion)

Chains.

From the cor. of secs. 7 and 18. on W. bdy. of Tp., hereinbefore described,
East, on true line, bet. secs. 7 and 18 ($W. \frac{1}{2}$).
Over mountainous land, thru. scattering undergrowth. Descend
30 ft., over NE. slope.
8.50 Gulch, 15 lks. wide, course NE. Ascend 280 ft., over broken,
stony NW. slope of spur.
15.00 Top of spur, slopes NE. Descend 868 ft., over steep E. slope,
to
30.00 Foot of abrupt descent, brs. N. and S. Leave mountainous
and enter rolling land; descend gradually to
40.08 Intersect the reestablished $\frac{1}{4}$ sec. cor. of secs. 7 and 18,
hereinbefore described.
Land, mountainous.
Soil, sandy, and gravelly, 3rd and 4th rate.
No timber.
Undergrowth, scattering scrub oak and cactus.

From the cor. of secs. 6 and 7 on W. bdy. of Tp., herein-
before described,
East, on a true line, bet. secs. 6 and 7 ($W. \frac{1}{2}$).
Over rolling and broken land, thru. scattering timber and
undergrowth. Descend 120 ft., over SE. slope, to
12.80 Gulch, 20 lks. wide, 5 ft. deep, course N. 70° E. Descend 108
ft., over NE. slope to $\frac{1}{4}$ sec. cor.
33.20 Leave timber, brs. N. and S.
40.18 Intersect the reestablished $\frac{1}{4}$ sec. cor. of secs. 6 and 7,
hereinbefore described.
Land, rolling and broken.
Soil, gravelly and rocky, 3rd rate.
Timber, scattering oak.
Undergrowth, scattering scrub oak and greasewood.

GENERAL DESCRIPTION.

The additional area of this fractional township, created
by the surveys hereinbefore described, contains no agri-
cultural land, the surface being mountainous, rolling
and broken, with gravelly and rocky soil, 3rd and 4th
rate.
There is very little timber, and the undergrowth is scat-
tering. There is no water, no signs of mineral, no
settlers or improvements. The area embraced with the
resurveys hereinbefore described, has a gently rolling
surface, with a sandy and gravelly soil, 2nd and 3rd rate.
This area is practically devoid of timber, but a scattering
undergrowth of greasewood, and greasewood is prevalent.
There are two settlers, J.F. Bull in sec. 5, and Wm. Doney,
in sec. 8, who have improvements consisting of houses,
fences, etc., and cultivated land. Several roads tra-
verse this part of the township.
The El Paso and Southwestern R.R. crosses this township, NE.
and SW., crossing the S. bdy. about 1 mile E. of the
SW. cor., and crossing the E. bdy. or Arizona-New
Mexico boundary about one half mile S. of the NE. cor.

CERTIFICATE OF UNITED STATES CADASTRAL ENGINEER.

I, Sidney E. Blout, U. S. Cadastral Engineer,, hereby certify upon honor that, in pursuance of special instructions received from the U. S. Surveyor General, for Group 102, Arizona, bearing date of the 26th day of October, 1919, 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~~ ^{retraced} all those parts or portions of the North boundary, resurveyed all those parts or portions of the Subdivision lines, and surveyed all those parts or portions of the West boundary, and Subdivision lines of Fractional Township 19 South, Range 32 East, of the Gila and Salt River Base and Meridian, in the State of Arizona, which are represented in and by diagram on page 1 hereof the foregoing field notes, as having been executed by me, and under my direction; and that all the corners of retracement, resurvey, and said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the U. S. Surveyor General, for Group 102, Arizona, and in the specific manner described in the field notes, and that the foregoing are the original field notes of retracement, resurvey, and such survey.

Phoenix, Arizona,
Date - SEP 12 1921 - -

Sidney E. Blout
U. S. Cadastral Engineer

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Phoenix, Arizona SEP 15 1921

The foregoing field notes of the ~~survey of~~ retracement of the West 2 miles of the North boundary, of the resurvey of part of the Subdivision lines, and of the survey of the North 3 miles of the West boundary, and of part (completion) of the Subdivision lines of Fractional Township 19 South, Range 32 East, of the Gila and Salt River Base and Meridian, in the State of Arizona,

executed by Sidney E. Blout, U. S. Cadastral Engineer,

under ~~his~~ special instructions dated October 6, 1919 for Group 102 Arizona, having been retracement, resurvey and critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

Frank R. Smith
U. S. Surveyor General.

~~I certify that the foregoing transcript of the field notes of the above-described surveys in~~

~~has been correctly copied from the original notes on file in this office.~~