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APR 28 1910

Book C.

BOOK 2194

Accepted - Letter E. 9/20/10

FIELD NOTES

2194

OF THE SURVEY OF THE

2194

*Subdivision of Township 20 North
Range 18 West*

2194

Of the *Gila & Salt River Base &* Meridian,

of the Territory of Arizona.

AS SURVEYED BY

Fred W. Podoly

, United States Deputy Surveyor,

Under his Contract No. *155*, dated *March 10*, 1909

Survey commenced *January 12*, 1900

Survey completed *January 27*, 1900

6-161

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BOOK 2194

NAMES AND DUTIES OF ASSISTANTS.

W. P. Kerns.	Chairman
Bert Lyon	Chairman
Ralph R. Stark	Moundman
R. N. Stark	Axman
G. M. Parker	Axman
George Newell	Flagman

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1B

BOOK 2194

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Meanders Page _____

PRELIMINARY OATHS OF ASSISTANTS.

WE, A. P. Kerns and Bert Lyon
do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain upon even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distances to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey of the Subdivision of Township 20 North, Range 18 West.

A. P. Kerns, Chainman.

Bert Lyon, Chainman.

Subscribed and sworn to before me this 10

day of December, 1909

My commission expires March 29, 1914



W. J. Ferrieh
Notary Public

WE, Ralph R. Ellis and

do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners according to the instructions given us, to the best of our skill and ability, in the survey of the Subdivision of Township 20 North, Range 18 West

Ralph R. Ellis, Moundman.

_____, Moundman.

Subscribed and sworn to before me this 10

day of December, 1909

My commission expires March 29, 1914



W. J. Ferrieh
Notary Public

WE, R. N. Stark and A. M. Parker

do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corners and other duties, according to instructions given us, to the best of our skill and ability, in the survey of the Subdivision of Township 20 North, Range 18 West

R. N. Stark, Axman.

A. M. Parker, Axman.

Subscribed and sworn to before me this 10

day of December, 1909

My commission expires March 29, 1914



W. J. Ferrieh
Notary Public

I, George Newell, do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of the Subdivision of Township 20 North, Range 18 West.

George Newell, Flagman.

Subscribed and sworn to before me this 10

day of December, 1909

My commission expires March 29, 1914



W. J. Ferrieh
Notary Public

chains.

Survey commenced January 12, 1910, and excited with a Young and sons light mountain transit No. 7532, with a solar attachment. The horizontal limb is provided with two double verniers placed opposite to each other and reading to single minutes of arc, which is also the least count of the verniers of the latitude and declination arcs.

The instrument was examined, tested on the true meridian at Phoenix, found correct and approved by the Surveyor General for Arizona.

I examine the adjustments of the transit and find them correct; then to test the solar apparatus by comparing its indications resulting observations made during a.m. and p.m., hours with a meridian established by polaris observations, I proceed as follows:

At the cor. of secs. 35 and 36, recently established by me, $35^{\circ} 04' 24''$ N., longitude, $114^{\circ} 07' W.$; I set off $35^{\circ} 04' 1/2''$ N. on the lat. arc; $21^{\circ} 36' 1/2''$ S. on the decl. arc, and at 4h 00m. p.m., l.m.t., determine a meridian with the solar and mark a point thereof on a stone firmly set in the ground 5chs. N. of the cor.

At 1h. 56m., p.m., l.m.t., I observe polaris at western elongation in accordance with the Manual of Instructions and mark a point in the line thus determined on a peg driven in the ground, 5 chs. N. of my station.

January 12, 1910.

January 13; At 7h. 30m., a.m., l.m.t., I lay off the azimuth of polaris, $1^{\circ} 26' E.$, and mark the meridian thus determined by a small cross on the rock set January 12, on which the meridian coincides with the meridian coincides with the meridian established by solar observations.

At 8h. 00m., a.m., l.m.t., I set off $21^{\circ} 29' S.$ on the decl. arc; $35^{\circ} 04' 1/2''$ N. on the lat. arc and determine a meridian with the solar and mark a point thereof by a cross on the stone already set 5chs. N. of my station, which meridian coincides with the meridian established by polaris observations; therefore I conclude that the adjustments of the instrument are satisfactory.

The magnetic bearing of the true meridian at 8h. 00m., is $N 15^{\circ} 00' W.$ the angle thus determined gives the magnetic declination as $15^{\circ} 00' E.$

Thence I run

$N 0^{\circ} 01' W.$ bet. secs. 35 and 36.

Over broken land covered with loose rocks thru dense underbrush.

3.15	Wash, 25 lks. wide, course SW. Over loose rocks.
19.50	Wash, 25 lks. wide, course SW. Over loose rocks.
21.60	Wash, 25 lks. wide, course SW. Over loose rocks.
28.00	Wash, 25 lks. wide, course SW. Over loose rocks.
34.00	Wash, 25 lks. wide, course SW. Over loose rocks.
40.00	Set a malpais stone, 24x8x8 ins., 18 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face; and raise a mound of stone, 2ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable
40.70	Wash, 20 lks. wide, course SW. Over loose rocks.
61.80	Wash, 20 lks. wide, course SW. Over loose rocks.
70.90	Wash, 20 lks. wide, course SW. Over loose rocks.
73.00	Wash, 20 lks. wide, course SW. Over loose rocks.
80.00	Set a malpais stone 18x8x6 ins., 12 ins. in the ground, for cor. of secs. 25, 26, 35 and 36, marked with 1 notch on S. and E. edges; dig pits, 18x18x12 ins., in each sec. $5\frac{1}{2}$ ft. dist.; and raise a mound of earth, 4ft. base, 2ft. high, W. of cor.

Land, rolling and broken.

Soil, rocky; 3rd rate.

No timber.

Underbrush, greasewood, sage, and cacti.

chains.

Rolling land covered with loose rocks and dense under brush, and on account of the scarcity of water and other reasons more fully explained at the end of these notes, exceptionally difficult to survey, 80.00 chs.

Thence I run

S 89° 52' E. on random line bet. secs. 25 and 36.

40.00 Set temp. 1/4 sec. cor.

80.00 Intersect the E. bdy. of Tp. 2 lks. S. of the cor. of secs. 25, 30, 31 and 36.

Thence I run

N 89° 53' W. on true line bet. secs. 25 and 36.

Over slightly rolling land thru exceptionally dense underbrush.

7.25 Wash, 20 lks. wide, course SW.

14.30 Wash, 20 lks. wide, course SW.

32.44 Wash, 20 lks. wide, course SW.

40.00 Set a malpais stone, 20X8X8 ins., 15 ins. in the ground, for 1/4 sec. cor., marked 1/4 on N. face; dig pits, 18X18X12 ins. E. and W. of stone, 3 ft. dist.; and raise a mound of earth, 3 1/2 ft. base, 1 1/2 ft. high, N. of cor.

59.00 Wash, 10 lks. wide, course SW.

69.25 Wash, 20 lks. wide, course SW.

75.00 Wash, 20 lks. wide, course SW.

80.00 The cor. of secs. 25, 26, 35 and 36.

Land, slightly rolling.

Soil, gravelly; 3rd rate.

No timber.

Underbrush, greasewood, sage and cacti.

Rolling land covered with exceptionally dense underbrush and on account of the scarcity of water and other reasons more fully explained at the end of these notes exceptionally difficult to survey, 80.00 chs.

At this cor. I set off 21° 30' S. on the decl. arc and observe the sun on the meridian at noon; the resulting lat. is 35° 05' N.

Thence I run

N 0 01' W. bet. secs. 25 and 26.

Over rolling land covered with loose rocks thru dense underbrush,

5.35 Wash, 20 lks. wide, course SW. Over loose rocks.

11.35 Wash, 20 lks. wide, course SW. Over loose rocks.

26.50 Wash, 20 lks. wide, course SW. Over loose rocks.

33.35 Wash, 20 lks. wide, course SW. Over loose rocks.

40.00 Set a malpais stone, 18X8X6 ins., 12 ins. in the ground, for 1/4 sec. cor., marked 1/4 on W. face; dig pits, 18X18X12 ins. N. and S. of stone, 3 ft. dist.; and raise a mound of earth 3 1/2 ft. base, 1 1/2 ft. high, W. of cor.

80.00 Set a malpais stone, 20X12X6 ins., 15 ins. in the ground, for cor. of secs. 23, 24, 25 and 26, marked with 2 notches on S. and 1 notch on E. edge; and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of cor. Pits impracticable.

Land, rolling.

Soil, rocky; 3rd rate.

No timber.

Underbrush, greasewood, sage and cacti.

Rolling land covered with loose rocks and dense under brush and on account of the scarcity of water and other reasons more fully explained at the end of these notes, exceptionally difficult to survey, 80.00 chs.

Thence I run

S 89° 53' E. on random line bet. secs. 24 and 25.

40.00 Set temp. 1/4 sec. cor.

80.10 Intersect the E. bdy. of Tp. 7 lks. N. of the cor. of secs. 19, 24 and 25, 30.

Subdivision of Tp.19 N., Rg.18 West.

chains.

Thence I run
 N 89°50'W. on true line bet.secs.24 and 25.
 Desc.over rolling land covered with loose rocks thru
 exceptionally dense underbrush.

0.30 Wash,25 lks.wide,course SW. Over loose rocks.
 1.15 Wash,20lks.wide,course SW. Over loose rocks.
 24.90 Wash,20 lks.wide,course SW. Over loose rocks.
 28.35 Wash,15 lks.wide,course SW. Over loose rocks.
 30.15 Wash,15 lks.wide,course SW. Over loose rocks.
 40.05 Set a malpais stone,24X8X5ins.,18ins.in the ground,
 for $\frac{1}{4}$ sec.cor.,marked $\frac{1}{4}$ on N,face,; and raise a mound
 of stone,3ft.base,1 $\frac{1}{2}$ ft.high,N. of cor. Pits impracticable
 41.50 wash,15 lks.wide,course SW. Over loose rocks.
 80.10 The cor. of secs.23,24,25,and 26.
 Land,rolling,
 Soil,rocky; 3rd rate,
 No timber.
 Underbrush,greasewood,sage and cacti.
 Rolling land covered with loose rocks and exception-
 nally dense underbrush,and on account of the scarcity
 of water and other reasons more fully explained at the
 end of these notes,exceptionally difficult to survey,
 80.10 chs,

January 13,1910.

January 14; At 8h.00m.,a.m.,l.m.t.,I set off 21°20'S.
 on the decl.arc; 35°06'N on the lat.arc and determine
 a meridian with the solar at the cor. of secs.23,24,
 25 and 26.

Thence I run
 N 0°01'W. bet.secs.23 and 24.
 Over rolling land covered with loose rocks thru
 exceptionally dense underbrush.

1.80 Wash,15 lks.wide,course SW. Over loose rocks.
 14.00 Wash,200 lks.wide,course SW. Over loose rocks.
 15.40 Wash,15 lks.wide,course SW. Over loose rocks.
 20.00 Wash,50 lks.wide,course SW. Over loose rocks.
 40.00 Set a malpais stone,18X8X6ins.,12ins.in the ground,
 for $\frac{1}{4}$ sec.cor.,marked $\frac{1}{4}$ on W. face; and dig pits,18X18
 X12ins.,N.and S. of stone,3ft.dist.; and raise a mound
 of earth,3 $\frac{1}{2}$ ft.base,1 $\frac{1}{2}$ ft.high,W. of cor.
 45.33 Road,course NE.and SW.
 45.95 Telephone line,bears NE.and SW.
 48.42 Power line,bears NE.and SW.
 50.55 Wash,15 lks.wide,course SW. Over loose rocks.
 80.00 Set a malpais stone,18X8X8ins.,12ins.in the ground,
 for cor. of secs.13,14,23 and 24,marked with 3 notches
 on S.and 1 notch on E. edge; and raise a mound of stone
 2ft.base,1 $\frac{1}{2}$ ft.high,W. of cor. Pits impracticable.
 Land,rolling.
 Soil,rocky; 3rd rate.
 No timber.
 Underbrush,greasewood,sage,catclaw and cacti.
 Rolling land covered with loose rocks and exception-
 ally dense underbrush,and on account of the scarcity of
 water and other reasons more fully explained at the
 end of these notes,exceptionally difficult to survey,
 80.00 chs.

Thence I run
 S 89°50'E. on random line bet.secs.13 and 24.
 40.00 Set temp. $\frac{1}{4}$ sec.cor.
 79.98 Intersect the E. bdy.of Tp.5 lks.S. of the cor. of secs.
 13,18,19 and 24.
 Thence I run
 N 89°52'W. on true line bet.secs.13 and 24.
 Descending over rolling land covered with loose
 rocks thru dense underbrush.
 2.40 Wash,10 lks.wide,course SW. Over loose rocks.

Subdivision of Tp.20 N.,Rg.18 West.

chains.	
4.00	Wash, 20 lks. wide, course SW. Over loose rocks.
6.00	Wash, 20 lks. wide, course SW. Over loose rocks.
14.30	Across wash, course SW.
21.70	Leave wash, course SW. Over loose rocks.
32.85	Road, to Kingman, bears NE. and SW.
34.80	Telephone line, bears NE. and SW.
39.99	Set a malpais stone, 18X10X6 ins., 12 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. Pits impracticable.
44.75	Power line, bears NE. and SW.
79.98	The cor. of secs. 13, 14, 23 and 24. Land, rolling. Soil, rocky; 3rd rate. No timber. Underbrush, greasewood, sage and cacti. Rolling land covered with loose rocks and exceptionally dense underbrush, and on account of the scarcity of water and other reasons more fully explained at the end of these notes, exceptionally difficult to survey, 79.98 chs.
	At this cor. I set off $21^{\circ}20'S.$ on the decl. arc; and observe the sun on the meridian at noon the resulting lat. is $35^{\circ}07'N.$
	Thence I run N $0^{\circ}01'W.$ bet. secs. 13 and 14. Over rolling land covered with loose rocks thru exceptionally dense underbrush.
18.40	Wash, 20 lks. wide, course SW. Over loose rocks.
26.60	Wash, 20 lks. wide, course SW. Over loose rocks.
40.00	Set a malpais stone, 18X6X6 ins., 12 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. Pits impracticable.
45.60	Wash, 20 lks. wide, course SW. Over loose rocks.
50.75	Wash, 20 lks. wide, course SW. Asc. along steep SW. slope over loose rocks.
65.00	Desc. along steep NW. slope over loose rocks.
72.25	Wash, 15 lks. wide, course SW. Asc. steep slope over loose rocks and boulders.
79.00	Top of ridge, bears E. and W. Desc. steep slope over loose rocks and boulders.
80.00	Set a malpais stone, 18X10X6 ins., 12 ins. in the ground, for cor. of secs. 11, 12, 13, and 14, marked with 4 notches on S. and 1 notch on E. edge; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable. Land, rolling and mountainous. Soil, rocky; 3rd and 4th rate. No timber. Underbrush, greasewood, sage and cacti. Rolling and mountainous land covered with loose rocks and boulders and dense underbrush, and on account of this scarcity of water and other reasons more fully explained at the end of these notes, exceptionally difficult to survey, 80.00 chs.
	Thence I run S $89^{\circ}52'E.$ on random line bet. secs. 12 and 13.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
80.04	Intersect the E. bdy. of Tp. 5 lks. S. of the cor. of secs. 7, 12, 13 and 18.
	Thence I run N $89^{\circ}54'W.$ on true line bet. secs. 12 and 13. Ascending along steep N. slope over loose rocks and boulders thru dense underbrush.
20.00	Asc. steep slope over loose rocks and boulders.
32.00	Top of high ridge, bears NW. and SE. Desc. steep slope over loose rocks and boulders.

Subdivision of Tp.20 N.,Rg.18 West.

chains.	
40.02	Point for $\frac{1}{4}$ sec.cor.falls on a malpais rock in place, 2X1 $\frac{1}{2}$ X1 $\frac{1}{2}$ ft.above ground,cut cross(X) at the point for $\frac{1}{4}$ sec.cor.,and mark $\frac{1}{4}$ on N. of cross; and raise a mound of stone,2ft.base,1 $\frac{1}{2}$ ft.high,N. of cor.Pits impracticable.
42,60	Wash,20 lks.wide,course SW. Along steep rough S. slope over loose rocks and boulders.
55.50	Wash,20 lks.wide,course S. Along steep S. slope over loose rocks and boulders.
72.50	Ascend steep rough E. slope over loose rocks and boulder
75.00	Top of ridge,bears NE.and SW. Desc.steep slope over loose rocks and boulders.
80.04	The cor of secs.11,12,13,and 14. Land,mountainous. Soil,rocky; 4th rate. No timber. Underbrush,greasewood,sage and cacti. Mountainous land covered with loose rocks and boulder and dense underbrush,and on account of the scarcity of water and other reasons more fully explained at the end of these notes,exceptionally difficult to survey,80.04ch January 14,1910.
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	January 15; At 8h.00m.,A.m.,l.m.t.,I set off 21°09'S. on the decl.arc; 35°08'N. on the lat.arc and determine a meridian with the solar at the cor. of secs.11,12,13 and 14. Thence I run N. 0°01'W. bet.secs.11 and 12. Desc.steep slope over loose rocks and boulders thru dense underbrush.
3.00	Over rolling land thru exceptionally dense underbrush.
29.65	Wash,25 lks.wide,course SW. over loose rocks.
40.00	Set a malpais stone,20X6X6ins.,15ins.in the ground, for $\frac{1}{4}$ sec.cor.,marked $\frac{1}{4}$ on W. face; and raise a mound of stone,2ft.base,1 $\frac{1}{2}$ ft.high,W. of cor. Pits impracticable.
58.20	Wash,20 lks.wide,course SW. Over loose rocks.
70.00	Wash,15 lks.wide,course SW. Over loose rocks.
80.00	Set a malpais stone,18X10X8ins.,12ins.,in the ground, for cor. of secs.1,2,11 and 12,marked with 5 notches on S.and 1 notch on E. edge; and raise a mound of stone, 2ft.base,1 $\frac{1}{2}$ ft.high,W. of cor. Pits impracticable. Land,mountainous and rolling. Soil,rocky; 3rd and 4th rate. No timber. Underbrush,greasewood,sage and cacti. Mountainous and rolling land covered with loose rocks and exceptionally dense underbrush,and on account of the scarcity of water and other reasons more fully explained at the end of these notes,exceptionally difficult to survey,80.00 chs.
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	Thence I run S 89°54'E. on random line bet.secs.1 and 12.
40.00	Set temp. $\frac{1}{4}$ sec.cor.,
80.00	Intersect the E.bdy.of Tp.2 lks.S. of the cor. of secs. 1,6,7,and 12. Thence I run N. 89°55'W. on true line bet.secs.1 and 12. Over rolling land covered with loose rocks,thru dense underbrush.
13.00	Wash,10 lks.wide,course SW. Over loose rocks.
13.75	Old road,bears NW.and SE.
40.00	Set a malpais stone,15X8X6ins.,10ins.in the ground, for $\frac{1}{4}$ sec.cor.,marked $\frac{1}{4}$ on N. face; and raise a mound of stone,2ft.base,1 $\frac{1}{2}$ ft.high,N. of cor. Pits impracticable.

Subdivision of Tp. 20 N., Rg. 18 West.

chains
43.85
70.35
80.00

Wash, 15 lks. wide, course SW. over loose rocks.
Wash, 10 lks. wide, course SW. Over loose rocks.
The cor. of secs. 1, 2, 11 and 12.

Land, rolling.
Soil, rocky; 3rd rate.
No timber.

Underbrush, greasewood, sage and cacti.
Rolling land covered with loose rocks and dense underbrush and on account of the scarcity of water and other reasons more fully explained at the end of these notes, exceptionally difficult to survey, 80.00 chs.

At the cor. of secs. 1, 2, 11 and 12 I set off 21° 09' S. on the decl. arc and observe the sun on the meridian at noon; the resulting lat. is 35° 08½' N.

Thence I run

N 0° 01' W. bet. secs. 1 and 2.

40.00

Set over level land thru dense underbrush.

37.00

Wash, 200 lks. wide, course W.

10.30

Wash, 20 lks. wide, course SW.

40.00

Set a malpais stone, 18x10x6 ins., 12 ins. in the ground, for ¼ sec. cor., marked ¼ on W. face; dig pits, 18x18x12 ins. N. and S. of stone, 3 ft. dist.; and raise a mound of earth, 3½ ft. base, 1½ ft. high, W. of cor.

60.65

Wash, 15 lks. wide, course SW.

78.00

Wash, 15 lks. wide, course SW.

82.23

Intersect the 5th Standard Parallel N., 4.72 chs. W. of the standard ¼ sec. cor. on the S. bdy. of sec. 36, which is a stone, marked and witnessed as described by the Surveyor General. Set a malpais stone, 18x8x8 ins., 12 ins. in the ground, for closing cor. of secs. 1 and 2, marked CC on S., with 1 groove on E. and 5 grooves on W. face; dig pits, 24x18x12 ins., crosswise on each line, E. and W., 3 ft., and S. of stone, 7 ft. dist.; and raise a mound of earth, 4 ft. base, 2 ft. high, S. of cor.

Land, level.
Soil, gravelly; 2nd rate.
No timber.

Underbrush, greasewood, sage and cacti.
Land covered with dense underbrush, and on account of the scarcity of water and other reasons more fully explained at the end of these notes, exceptionally difficult to survey, 82.23 chs.

From the cor. of secs. 2, 3, 34 & 35 on the south bdy. I run

N 0° 01' W. bet. secs. 34 and 35.

14.85

Wash, 20 lks. wide, course SW. Over loose rocks.

20.00

Wash, 20 lks. wide, course SW. Over loose rocks.

25.10

Wash, 20 lks. wide, course SW. Over loose rocks.

40.00

Set a malpais stone, 18x9x8 ins., 12 ins. in the ground, for ¼ sec. cor., marked ¼ on W. face; dig pits, 18x18x12 ins. N. and S. of stone, 3 ft. dist.; and raise a mound of earth, 3½ ft. base, 1½ ft. high, W. of cor.

48.20

Wash, 20 lks. wide, course SW. Over loose rocks.

61.40

Wash, 20 lks. wide, course SW. Over loose rocks.

63.50

Wash, 20 lks. wide, course SW. Over loose rocks.

65.90

Wash, 20 lks. wide, course SW. Over loose rocks.

67.45

Wash, 20 lks. wide, course SW. Over loose rocks.

79.05

Wash, 20 lks. wide, course SW. Over loose rocks.

80.00

Set a malpais stone, 18x10x8 ins., 12 ins. in the ground, for cor. of secs. 26, 27, 34 and 35, marked with 1 notch on S. and 2 notches on E. edge; dig pits, 18x18x12 ins., in each sec. 5½ ft. dist.; and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor.

Subdivision of Tp.20 N.,Rg.18 West.

chains.

Land,rolling.

Soil,rocky; 3rd rate.

No timber.

Underbrush,greasewood,sage and cacti.

Rolling land covered with loose rocks and exceptionally dense underbrush,and on account of the scarcity of water and other reasons more fully explained at the end of these notes,exceptionally difficult to survey,
80.00 chs. January 15,1910.

January 16; At 8h.00m.,a.m.,l.m.t.,I set off 20'58"S. on the decl.arc; 35°05'N. on the lat.arc and determine a meridian with the solar at the cor. of secs.26,27, 34 and 35.

Thence I run

S 89°52'E. on random line bet.secs.26 and 35.

40.00 Set temp.¼ sec.cor.

79.88 Intersect the N. and S.line at the cor. of secs.25,26, 35 and 36.

Thence I run

N 89°52'W. on true line bet.secs.26 and 35.

Slowly decsened over loose rocks thru exceptionally dense underbrush.

10.60 Wash,20 lks.wide,course SW. Over loose rocks.

15.00 Wash,20 lks.wide,course SW. Over loose rocks.

18.50 Wash,20 lks.wide,course SW. Over loose rocks.

27.15 Wash,35 lks.wide,course SW. Over loose rocks.

38.00 Wash,15 lks.wide,course SW. Over loose rocks.

39.75 Wash,10 lks.wide,course SW. Over loose rocks.

39.94 Set a malpais stone,20X10X10ins.,15ins.in the ground, for ¼ sec.cor.,marked ¼ on N.face; and raise a mound of stone,2ft.base,1½ ft.high,N. of cor. Pits impracticable.

79.88 The cor. of secs.26,27,34 and 35.

Land,rolling.

Soil,rocky; 3rd rate.

No timber.

Underbrush,greasewood,sage,and cacti.

Rolling land covered with lose rocks and exceptionally dense underbrush,and on account of the scarcity of water and other reasons more fully explained at the end of these notes,exceptionally difficult to survey,79.88 chs.

Thence I run

N 0°01'W. bet,secs.26 and 27.

Over rolling land covered with lose rocks and dense underbrush.

1.50 Wash,10 lks.wide,course SW. Over loose rocks.

5.35 Wash,15 lks.wide,course SW. Over loose rocks.

13.00 Wash,15 lks.wide,course SW. Over loose rocks.

23.80 Wash,15 lks.wide,course SW. Over loose rocks.

38.15 Wash,35 lks.wide,course SW. Over loose rocks.

40.00 Set a malpais stone,18X8X6ins.,12ins.in the ground, for ¼ sec.cor.,marked ¼ on W.face; dig pits,18X18X12ins. N.and S. of stone,3ft.dist.; and raise a mound of earth 3½ ft.base,1½ ft.high,W. of cor.

55.30 Wash,15 lks.wide,course SW. Over loose rocks.

58.15 Wash,15 lks.wide,course SW. Over loose rocks.

63.72 Power line,bears NE.and SW.

69.00 Wash,15 lks.wide,course SW.Over loose rocks.

76.55 Telephone line,bears NE.and SW.

77.45 Road,bears NE and SW.

79.00 Wash,10 lks.wide,course W. Over loose rocks.

80.00 Set a malpais stone,18X8X5ins.,12ins.in the ground, for cor. of secs.22,23,26 and 27,marked with 2 notches on S.and E edges; and raise a mound of stone,2ft.base, 1½ ft.high,W. of cor. Pits impracticable.

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Subdivision of Tp.20 N.,Rg.18 West.

chains.

Land,rolling.
Soil,rocky; 3rd rate.
No timber.
Underbrush,greasewood,sage and cacti.

Rolling land covered with loose rocks and dense underbrush,and on account of the scarcity of water and other reasons more fully explained at the end of these notes,exceptionally difficult to survey,80.00 chs.

At this cor. I set off 20° 58' S. on the decl. arc and observe the sun on the meridian at noon; the resulting lat. is 35° 06' N.

Thence I run

S 89° 52' E. on random line bet. secs. 23 and 26.

40.00 Set temp. 1/4 sec. cor.

79.88 Intersect the N. and S. line, 5 lks. S. of the cor. of secs 23, 24, 25 and 26.

Thence I run

N 89° 54' W. on true line bet. secs. 23 and 26.

3.50 Slowly descend over loose rocks thru dense underbrush

7.70 Wash, 25 lks. wide, course SW. Over loose rocks.

10.35 Wash, 100 lks. wide, course SW. Over loose rocks.

20.40 Wash, 20 lks. wide, course SW. Over loose rocks.

27.65 Wash, 20 lks. wide, course SW. Over loose rocks.

39.94 Set a malpais stone, 18X8X5 ins., 12 ins. in the ground, for 1/4 sec. cor., marked 1/4 on N. face; dig pits, 18X18X12 ins. E. and W. of stone, 3 ft. dist.; and raise a mound of earth, 3 1/2 ft. base, 1 1/2 ft. high, N. of cor.

42.30 Wash, 15 lks. wide, course SW. Over loose rocks.

48.15 Wash, 15 lks. wide, course SW. Over loose rocks.

58.05 Power line, bears NE. and SW.

68.90 Wash, 15 lks. wide, course SW. Over loose rocks.

72.70 Old road, bears NE. and SW.

73.80 Telephone line, bears NE. and SW.

75.80 Road, bears NE. and SW.

76.50 Wash, 15 lks. wide, course SW. Over loose rocks.

79.88 The cor. of secs. 22, 23, 26 and 27.

Land,rolling.
Soil,rocky; 3rd rate.
No timber.

Underbrush,greasewood,sage and cacti.

Rolling land covered with loose rocks and dense underbrush,and on account of the scarcity of water and other reasons more fully explained at the end of these notes,exceptionally difficult to survey,79.88 chs.

Thence I run

N 0° 01' W. bet. secs. 22 and 23.

Over rolling land covered with loose rocks and dense underbrush.

5.60 Wash, 15 lks. wide, course W. Over loose rocks.

11.50 Wash, 20 lks. wide, course SW. Over loose rocks.

18.25 Wash, 20 lks. wide, course SW. Over loose rocks.

36.80 Wash, 20 lks. wide, course SW. Over loose rock.

40.00 Set a malpais stone, 15X8X6 ins., 10 ins. in the ground, for 1/4 sec. cor., marked 1/4 on W. face; and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of cor. Pits impracticable.

41.30 Wash, 30 lks. wide, course SW. Over loose rocks.

68.65 Wash, 20 lks. wide, course SW. Over loose rocks.

79.60 Wash, 15 lks. wide, course SW. Over loose rocks.

80.00 Set a malpais stone, 20X6X6 ins., 15 ins. in the ground, for cor. of secs. 14, 15, 22 and 23, marked with 3 notches on S. and 2 notches on E. edge; and raise a mound of stone 2 ft. base, 1 1/2 ft. high, W. of cor. Pits impracticable.

Land,rolling.
Soil,rocky; 3rd rate.
No timber.
Underbrush,greasewood,sage and cacti.

Subdivision of Tp.20 N., Rg.18 West.

chains.

Descend steep slope over huge malpais boulders thru dense underbrush.
 6.00 Over level land covered with loose rocks.
 40.00 Set a malpais stone, 20X10X5ins., 15ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face; and raise a mound of stone, 2ft. base, 1 $\frac{1}{2}$ ft. high, N. of cor. Pits impracticable.
 77.00 Wash, 35 lks. wide, course SW. Over loose rocks.
 80.00 The cor. of secs. 10, 11, 14 and 14.
 Land, mountainous and level.
 Soil, rocky; 3rd and 4th rate.
 No timber.
 Underbrush, greasewood, sage and cacti.
 Land covered with loose rocks and dense underbrush, and on account of the scarcity of water and other reason more fully explained at the end of these notes, exceptionally difficult to survey, 80.00 chs.

Thence I run
 N 0° 01' W. bet. secs. 10 and 11.
 Over slightly rolling land covered with loose rocks thru dense underbrush.
 19.00 Wash, 15 lks. wide, course SW. Over loose rocks.
 40.00 Set a malpais stone, 15X10X10ins., 10ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face; and raise a mound of stone, 2ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.
 40.50 Wash, 25 lks. wide, course SW. Over loose rocks.
 51.70 Wash, 75 lks. wide, course SW. Over loose rocks.
 63.00 Wash, 15 lks. wide, course SW. Over loose rocks.
 65.25 Wash, 15 lks. wide, course SW. Over loose rocks.
 69.40 Wash, 20 lks. wide, course SW. Over loose rocks.
 72.70 Wash, 15 lks. wide, course SW. Over loose rocks.
 80.00 Set a malpais stone, 18X8X8ins., 12ins. in the ground, for cor. of secs. 2, 3, 10 and 11, marked with 5 notches on S. and 2 notches on E. edge; dig pits, 18X18X12ins., in each sec. 5 $\frac{1}{2}$ ft. dist.; and raise a mound of earth, 4ft. base, 2ft. high, W. of cor.
 Land, rolling.
 Soil, rocky; 3rd rate.
 No timber.
 Underbrush, greasewood, sage and cacti.
 Rolling land covered with loose rocks and dense underbrush, and on account of the scarcity of water and other reasons more fully explained at the end of these notes, exceptionally difficult to survey, 80.00 chs.
 January 17, 1910.

January 18; At 8h 00m., a.m., l.m.t., I set off 20° 34 $\frac{1}{2}$ ' S. on the decl. arc; 35° 08 $\frac{1}{2}$ ' N. on the lat. arc and determining a meridian with the solar at the cor. of secs. 2, 3, 10 and 11.
 Thence I run
 N 89° 58' E. on random line bet. secs. 2 and 11.
 40.00 Set temp $\frac{1}{4}$ sec. cor.
 79.88 Intersect the W. and S. line, 2 lks. S. of the cor. of secs. 1, 2, 11 and 12.
 Thence I run
 S 89° 57' W. on true line bet. secs. 2 and 11.
 Slowly descending over loose rocks thru dense underbrush.
 20.00 Wash, 50 lks. wide, course WSW. Over loose rocks.
 29.50 Enter wash, course SW.
 38.00 Leave wash, course SW. Over loose rocks.
 39.94 Set a malpais stone, 18X10X8ins., 12ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face; and raise a mound of stone, 2ft. base, 1 $\frac{1}{2}$ ft. high, N. of cor. Pits impracticable.
 71.60 Wash 15 lks. wide, course SW. Over loose rocks.
 79.88 The cor. of secs. 2, 3, 10 and 11.
 Land, rolling.
 Soil, rocky; 3rd rate.

Subdivision of Tp.20 N.,Rg.18 West.

chains.

Rolling land covered with loose rocks and dense underbrush, and on account of the scarcity of water and other reasons more fully explained at the end of these notes, exceptionally difficult to survey, 80.00 chs. January 16, 1910.

January 17; At 8h 00m., a.m., l.m.t., I set off 20°46½' S. on the decl. arc; 35°07' N. on the lat. arc and determine a meridian with the solar at the cor. of secs. 14, 15, 22 and 23.

Thence I run

S 89°54'E. on random line bet. Secs. 14 and 23.

40.00 Set temp. ¼ sec. cor.

79.96 Intersect the N. and S. line, 13 lks. S. of the cor. of secs. 13, 14, 23 and 24.

Thence I run

West on true line bet. secs. 14 and 23.

Over slightly rolling land covered with loose rocks thru dense underbrush.

39.98 Set a malpais stone, 18x6x6 ins., 12 ins. in the ground, for ¼ sec. cor., marked ¼ on N. face; and raise a mound of stone, 8 ft. base, 1½ ft. high, W. of cor. Pits impracticable.

47.20 Wash, 35 lks. wide, course SW. Over loose rocks.

58.30 Wash, 20 lks. wide, course SW. Over loose rocks.

79.96 The cor. of secs. 14, 15, 22 and 23.

Land, slightly rolling.

Soil, rocky; 3rd rate.

No timber.

Underbrush, greasewood, sage and cacti.

Rolling land covered with loose rocks and dense underbrush, and on account of the scarcity of water and other reasons more fully explained at the end of these notes, exceptionally difficult to survey, 79.96 chs.

Thence I run

N 0°01' W. bet. secs. 14 and 15.

Over nearly level land thru exceptionally dense underbrush.

22.00 Wash, 15 lks. wide, course SW.

40.00 Set a malpais stone, 18x6x6 ins., 12 ins. in the ground, for ¼ sec. cor., marked ¼ on W. face; dig pits, 18x18x12 ins., N. and S. of stone, 3 ft. dist.; and raise a mound of earth 3½ ft. base, 1½ ft. high, W. of cor.

64.10 Wash, 15 lks. wide, course SW. Over loose rocks.

75.20 Wash, 35 lks. wide, course SW. Over loose rocks.

80.00 Set a malpais stone, 20x8x8 ins., 15 ins. in the ground, for cor. of secs. 10, 11, 14 and 15, marked with 4 notches on S. and 2 notches on E. edge; and raise a mound of stone 2 ft. base, 1½ ft. high, W. of cor. Pits impracticable.

Land, nearly level.

Soil, gravelly and rocky; 2nd and 3rd rate.

No timber.

Underbrush, greasewood, sage and cacti.

Land covered with loose rocks and exceptionally dense underbrush, and on account of the scarcity of water and other reasons more fully explained at the end of these notes, exceptionally difficult to survey, 80.00 chs.

At this cor. I set off 20°46½' S. on the decl. arc and observe the sun on the meridian at noon; the resulting lat. is 35°08' N.

Thence I run

East on random line bet. secs. 11 and 14.

40.00 Set temp. ¼ sec. cor.

80.00 Intersect the N. and S. line, 4 lks. S. of the cor. of secs. 11, 12, 13 and 14.

Thence I run

S 89°58' W. on true line bet. secs. 11 and 14.

Subdivision of Tp.20 N.,Rg.18 West.

chains.

No timber.

Underbrush,greasewood,sage and cacti.

Rolling land covered with looserocks and dense underbrush,and on account of the scarcity of water and other reasons more fully explained at the end of these notes, exceptionally difficult to survey,79.88 chs.

Thence I run

N 0°01'W. bet.secs.2 and 3.

Over nearly level land thru exceptionally dense underbrush.

40.00

Set a malpais stone,24X12X6ins.,18ins.in the ground, for $\frac{1}{4}$ sec.cor.,marked $\frac{1}{4}$ on W.face; dig pits,18X18X12ins. N.and S. of stone,3ft.dist.; and raise a mound of earth $3\frac{1}{2}$ ft.base,1 $\frac{1}{2}$ ft.high,W. of cor.

44.00

Leave dense underbrush,bears E.and W. Over grassy plain.

82.14

Intersect the 5th Standard Parallel North 4.48 chs.W. of the standard $\frac{1}{4}$ sec.cor.on S. bdy.of sec. 35,which is a stone marked and witnessed as described by the Surveyor General. Set a malpais stone,20X12X8ins.,15ins. in the ground,for closing cor.of secs.2 and 3.,marked CC on S.,with 2 grooves on E.,and 4 grooves on W. face; dig pits,24X18X12ins.,crosswise on each line,E.and W. 3ft.,and S.of stone,7ft.dist.; and raise a mound of earth,4ft.base,2ft.high,S. of cor.

Land,nearly level.

Soil,gravelly; 2nd rate.

No timber.

Underbrush,greasewood,sage and cacti.

Land covered with exceptionally dense underbrush, and on account of the scarcity of water and other reasons more fully explained at the end of these notes, exceptionally difficult to survey,44.00 chs.

At this cor. I set off 20°34 $\frac{1}{2}$ 'S. on the decl.arc and observe the sun on the meridian at noon; the resulting lat.is 35°09 $\frac{1}{2}$ 'N.✓

From the cor. of secs. 3,4,33 & 34 on the S. bdy.

I run

N 0°02'W. bet.secs.33 and 34.

Over level land covered with loose rocks thru dense underbrush.

7.00

Wash,15 lks.wide,course SW. Over loose rocks.

29.35

Wash,15 lks.wide,course SW. Over loose rocks.

31.80

Wash,15 lks.wide,course SW. Over loose rocks.

40.00

Set a malpais stone,20X14X8ins.,15ins.in the ground, for $\frac{1}{4}$ sec.cor.,marked $\frac{1}{4}$ on W.face; and raise a mound of stone,2ft.base,1 $\frac{1}{2}$ ft.high,W. of cor. Pits impracticable.

44.00

Wash,15 lks.wide,course SW. Over loose rocks.

46.10

Same wash,course SE. Over loose rocks.

49.55

Same wash,15 lks.wide,course SW.Over loose rocks.

63.00

Wash,15 lks.wide,course SW. Over loose rocks.

68.85

Wash,20 lks.wide,course SW. Over loose rocks.

80.00

Set a malpais stone,20X10X8ins.,15ins.in the ground, for cor. of secs.27,28,31 and 32,marked with 1 notch on S.and 3 notches on E.edge.; and raise a mound of stone 2ft.base,1 $\frac{1}{2}$ ft.high,W. of cor. Pits impracticable.

Land,level.

Soil,rocky; 3rd rate.

No timber.

Underbrush,greasewood,sage and cacti.

Land covered with loose rocks and dense underbrush, and on account of the scarcity of water and other reason more fully explained at the end of these notes, exceptionally difficult to survey,80.00 chs.

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Subdivision of Tp.20 N.,Rg.18 West.

chains	Thence I run S 89° 52' E. on random line bet. secs. 27 and 34.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
79.98	Intersect the N. and S. line at the cor. of secs. 26, 27, 34 and 35.
	Thence I run N 89° 52' W. on true line bet. secs. 27 and 34. Slowly descend over loose rocks thru dense underbrush.
0.85	Wash, 20 lks. wide, course SW. Over loose rocks.
5.55	Wash, 20 lks. wide, course SW. Over loose rocks.
17.75	Wash, 20 lks. wide, course SW. Over loose rocks.
20.85	Wash, 20 lks. wide, course SW. Over loose rocks.
28.40	Wash, 20 lks. wide, course SW. Over loose rocks.
31.75	Wash, 20 lks. wide, course SW. Over loose rocks.
39.99	Set a malpais stone, 18X8X6 ins., 12 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face; dig pits, 18X18X12 ins., E. and W. of stone, 3 ft. dist.; and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, N. of cor.
79.98	The cor. of secs. 27, 28, 33 and 34. Land, rolling. Soil, rocky; 3rd rate. No timber. Underbrush, greasewood, sage and cacti. Rolling land covered with loose rocks and dense underbrush, and on account of the scarcity of water and other reasons more fully explained at the end of these notes, exceptionally difficult to survey, 79.98 chs. January 18, 1910.
January 19; At 8h 00m., a.m., l.m.t., I set off 20° 22 $\frac{1}{2}$ ' S. on the decl. arc; 35° 05 $\frac{1}{2}$ ' N. on the lat. arc; and determine a meridian with the solar at the cor. of secs. 27, 28, 33 and 34.	
	Thence I run N 0° 02' W. bet. secs. 27 and 28. Over slightly rolling land covered with exceptionally dense underbrush.
3.38	Power line, bears NE. and SW.
3.50	Wash, 15 lks. wide, course SW.
11.20	Wash, 100 lks. wide, course SW.
14.42	Road, bears NE. and SW.
18.20	Telephone line to Kingman, bears NE. and SW.
19.07	Road, Goldroads, to Kingman, bears NE. and SW.
37.45	Wash, 10 lks. wide, course SW.
40.00	Set a malpais stone, 20X18X6 ins., 15 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face; dig pits, 18X18X12 ins., N. and S. of stone, 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
49.00	Wash, 10 lks. wide, course SW.
68.40	Wash, 30 lks. wide, course W.
80.00	Set a malpais stone, 20X6X6 ins., 15 ins. in the ground, for cor. of secs. 21, 22, 27 and 28, marked with 2 notches on S. and 3 notches on E. edge; dig pits, 18X18X12 ins., in each sec. $5\frac{1}{2}$ ft. dist.; and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor. Land, rolling. Soil, gravelly and rocky; 3rd rate. No timber. Underbrush, greasewood, sage and cacti. Rolling land covered with exceptionally dense underbrush, and on account of the scarcity of water and other reasons more fully explained at the end of these notes, exceptionally difficult to survey, 80.00 chs.
40.00	Thence I run S 89° 52' E. on random line bet. secs. 22 and 27. Set temp. $\frac{1}{4}$ sec. cor.

Subdivision of Tp.20 N.,Rg.13 West.

chains	
79.92	Intersect the N. and S. line at the cor. of secs. 22, 23, 26 and 27. Thence I run N 89° 52' W. on true line bet. secs. 22 and 27. Slowly descending over loose rocks thru dense underbrush.
1.50	Wash, 10 lks. wide, course SW. Over loose rocks.
12.40	Wash, 20 lks. wide, course SW. Over loose rocks.
25.90	Wash, 30 lks. wide, course SW. Over loose rocks.
35.90	Wash, 35 lks. wide, course SW. Over loose rocks.
39.96	Set a malpais stone, 24x12x12 ins., 18 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face; dig pits, 18x18x12 ins., E. and W. of stone, 3 ft. dist.; and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, N. of cor.
79.92	The cor. of secs. 21, 22, 27 and 28. Land, rolling. Soil, rocky; 3rd rate. No timber. Underbrush, greasewood, sage and cacti. Rolling land covered with loose rocks and dense underbrush, and on account of the scarcity of water and other reasons more fully explained at the end of these notes exceptionally difficult to survey, 79.92 chs. At this cor. I set off 20 22 $\frac{1}{2}$ ' S. on the decl. arc and observe the sun on the meridian at noon; the resulting, lat. is 35 06' N. ✓
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	Thence I run N 0° 02' W. bet. secs. 21 and 22. Over rolling land covered with dense underbrush.
21.80	Wash, 15 lks. wide, course SW.
36.55	Wash, 20 lks. wide, course SW.
40.00	Set a malpais stone, 18x8x7 ins., 12 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face; dig pits, 18x18x12 ins., N. and S. of stone, 3 ft. dist.; and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
44.40	Wash, 15 lks. wide, course SE.
80.00	Set a malpais stone, 18x14x6 ins., 12 ins. in the ground, for cor. of secs. 15, 16, 21 and 22, marked 20 N on NE., and 18 W., on SE. face, with 3 notches on S. and E. edges; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable. Land, rolling. Soil, rocky and gravelly; 2nd and 3rd rate. No timber. Underbrush, greasewood, sage and cacti. Rolling land covered with dense underbrush, and on account of the scarcity of water and other reasons more fully explained at the end of these notes, exceptionally difficult to survey, 80.00 chs.
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	Thence I run S 89° 52' E. on random line bet. secs. 15 and 22.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
79.86	Intersect the N. and S. line, 11 lks. S. of the cor. of secs. 14, 15, 22 and 23. Thence I run N 89° 57' W. on true line bet. secs. 15 and 22. Slowly descending over loose rocks thru dense underbrush.
20.50	Wash, 20 lks. wide, course SW. Over loose rocks.
39.93	Set a malpais stone, 15x10x8 ins., 10 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. Pits impracticable.
49.50	Wash, 20 lks. wide, course SW. Over loose rocks.
57.60	Wash, 20 lks. wide, course SW. Over loose rocks.

Subdivision of Tp.20 N.,Rg.18 West.

chains
79.86

The cor. of secs.15,16,21 and 22.
Land,slightly rolling.
Soil,rocky; 3rd rate.
No timber.
Underbrush,greasewood,sage and cacti.
Land covered with loose rocks and dense underbrush,
and on account of the scarcity of water and other reasons
more fully explained at the end of these notes,excepti-
onally difficult to survey,79.86 chs.
January 19,1910.

January 20;At 8h 00m.,a.m.,l.m.t.,I set off 20° 09½'g
on the decl.arc; 35° 07'N./on the lat.arc,and determine
a meridian with the solar at the cor. of secs.15,16,
21 and 22.

Thence I run
N 0 02'w. bet.secs.15 and 16.

Over level land covered with loose rocks thru except-
ionally dense underbrush.

7.00
14.00
40.00
47.00
66.75
80.00

Wash,20 lks.wide,course SW. Over loose rocks.
Wash,20 lks.wide,course SW. Over loose rocks.
Set a malpais stone,18X8X8ins.,12ins.in the ground,
for ¼ sec.cor.,marked ¼ on W.face; and raise a mound
of stone,2ft.base,1½ ft.high,W. of cor. Pits impraticabl.
Wash,25 lks.wide,course SW. Over loose rocks.
Wash,25 lks.wide,course SW. Over loose rocks.
Set a malpais stone,24X14X8ins.,18ins.in the ground,for
cor. of secs.9,10,15 and 16,marked with 4 notches on)
S.and 3 notches on E. edge; and raise a mound of stone,
2ft.base,1½ ft.high,W. of cor. Pits impraticable.

Land,level.
Soil,rocky; 3rd rate.
No timber.
Underbrush,greasewood,sage and cacti.

Land covered with loose rocks and exceptionally dense
underbrush,and on account of the scarcity of water and
other reasons more fully explained at the end of these
notes,exceptionally difficult to survey,80.00 chs.

Thence I run
S 89° 57' E. on random line bet.secs.10 and 15.

40.00
79.92

Set temp.¼ sec.cor.
Intersect the N.and S. line 14 lks.S. of the cor. of
secs.10,11,14 and 15.

Thence I run
S 89° 57' w. on true line bet.secs.10 and 15.

Slowly descending over loose rocks thru dense under-
brush.

29.65
39.96

Wash,20 lks.wide,course SW. Over loose rocks.
Set a malpais stone,24X12X6ins.,18ins.in the ground,
for ¼ sec.cor.,marked ¼ on N.face; and raise a mound of
stone,2ft.base,1½ ft.high,W. of cor. Pits impraticable.

79.92

The cor. of secs.9,10,15 and 16.

Land,nearby level.
Soil,rocky; 3rd rate.
No timber.

Underbrush,greasewood,sage and cacti.
Land covered with loose rocks and dense underbrush,
and on account of the scarcity of water and other reas-
ons more fully explained at the end of these notes,
exceptionally difficult to survey,79,92 chs.

At this cor. I set off 20 09½'S. on the decl.arc and
observe the sun on the meridian at noon; the resulting
lat.is 35 08'N.

Thence I run
N 0° 02' W. bet.secs. 9 and 10.

Over rolling land covered with loose rocks thru dense

Subdivision of Tp. 20 N., Rg. 18 West.

chains.	underbrush.
8.80	Wash, 20 lks. wide, course SW. Over loose rocks.
12.50	Wash, 30 lks. wide, course SW. Over loose rocks.
20.35	Wash, 100 lks. wide, course SW. Over loose rocks.
35.05	Wash, 20 lks. wide, course SW. Over loose rocks.
39.70	Wash, 10 lks. wide, course SW. Over loose rocks.
40.00	Set a malpais stone, 18X8X6 ins., 12 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face; dig pits, 18X18X12 ins., N. and S. of stone, 3 ft. dist.; and raise a mound of earth, 3 $\frac{1}{2}$ ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor.
58.00	Wash, 15 lks. wide, course SW. Over loose rocks.
80.00	Set a malpais stone, 18X8X8 ins., 12 ins. in the ground, for cor. of secs. 3, 4, 9, 10, marked with 5 notches on S., and 3 notches on E. edges; dig pits, 18X18X12 ins., in each sec 5 $\frac{1}{2}$ ft. dist.; and raise a mound of earth, 4 ft. base, 2 ft. high W. of cor.
	Land, rolling.
	Soil, rocky; 3rd rate.
	No timber.
	Underbrush, greasewood, sage and cacti.
	Rolling land covered with loose rocks and dense underbrush, and on account of the scarcity of water and other reasons more fully explained at the end of these notes, exceptionally difficult to survey, 80.00 chs.
	Thence I run
	N 89° 57' E. on random line bet. secs. 3 and 10.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
79.94	Intersect the N. and S. line 2 lks. N. of the cor. of secs. 2, 3, 10 and 11.
	Thence I run
	S 89° 58' W. on true line bet. secs. 3 and 10.
39.97	Over level land thru exceptionally dense underbrush, Set a malpais stone, 18X8X8 ins., 12 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face; dig pits, 18X18X12 ins., E. and W. of stone, 3 ft. dist.; and raise a mound of earth, 3 $\frac{1}{2}$ ft. base, 1 $\frac{1}{2}$ ft. high, N. of cor.
79.94	The cor. of secs. 3, 4, 9 and 10.
	Land, level.
	Soil, gravelly; 2nd rate.
	No timber.
	Underbrush, greasewood, sage and cacti.
	Land covered with exceptionally dense underbrush, and on account of the scarcity of water and other reasons more fully explained at the end of these notes, exceptionally difficult to survey, 79, 94 chs.
	January 20, 1910.
	On January 21; At 8h 00m. a.m. I set off 19° 56 $\frac{1}{2}$ ' S. on the decl. arc; 35° 08 $\frac{1}{2}$ ' N. on the lat. arc and determine a meridian with the solar at the cor. of secs. 3, 4, 9 and 10.
	Thence I run
	N 0° 02' W. bet. secs. 3 and 4.
	Over level land thru dense underbrush,
10.00	Leave dense underbrush, bears E. and W.
40.00	Set a malpais stone, 18X8X6 ins., 12 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face; dig pits, 18X18X12 ins., N. and S. of stone, 3 ft. dist.; and raise a mound of earth 3 $\frac{1}{2}$ ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor.
45.00	Enter dense underbrush, bears E. and W.
81.50	Set a malpais stone, 20X8X8 ins., 15 ins. in the ground, for witness cor. to closing cor. of secs. 3 and 4, marked WC CC on S., with 3 grooves on E. and W. faces; dig pits, 24X18X12 ins., E. and W. 3 ft. dist., and raise a mound of earth, 4 ft. base, 2 ft. high, S. of cor.
81.97	Intersect the 5th Standard Parallel N., 4.25 chs. W. of standard $\frac{1}{4}$ sec. cor. on S. bdy. of sec. 34. point for cor. falls in wash, 40 lks. wide, course SW. (Which is a stone marked & witnessed as described by the Sur. Genl.)

chains.

Land, level.

Soil, gravelly; 2nd rate.

No timber.

Underbrush, greasewood, sage and cacti.

Land covered with dense underbrush, and on account of the scarcity of water and other reasons more fully explained at the end of these notes, exceptionally difficult to survey, 46.97 chs.

From the cor. of secs. 4, 5, 32 & 33 on the S. bdy.

I run

N 0°02'W. bet. secs. 32 and 33.

Over nearly level land thru exceptionally dense underbrush.

19.00

Wash, 15 lks. wide, course SW.

21.75

Wash, 15 lks. wide, course SW.

22.90

Power line bears NE. and SW.

28.75

Telephone line, bears NE. and SW.

29.12

Road, bears NE. and SW.

40.00

Set a malpais stone, 15X12X6 ins., 10 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face; dig pits, 18X18X12 ins., N. and S. of stone, 3 ft. dist.; and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, W. of cor.

52.00

Wash, 15 lks. wide, course SW.

57.00

Wash, 15 lks. wide, course SW.

68.00

Wash, 15 lks. wide, course SW.

71.50

Wash, 15 lks. wide, course SW.

80.00

Set a malpais stone, 24X12X12 ins., 18 ins. in the ground, for cor. of secs. 28, 29, 32 and 33, marked with 1 notch on S. and 4 notches on E. edge; dig pits, 18X18X12 ins. in each sec. $5\frac{1}{2}$ ft. dist.; and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor.

Land, nearly level.

Soil, gravelly; 3rd rate.

No timber.

Underbrush, greasewood, sage and cacti.

Land covered with exceptionally dense underbrush, and on account of the scarcity of water and other reasons more fully explained at the end of these notes, exceptionally difficult to survey, 80.00 chs.

At this cor. I set off $19^{\circ}56\frac{1}{2}'S.$ on the decl. arc and observe the sun on the meridian at noon; the resulting lat. is $35^{\circ}05\frac{1}{2}'N.$

Thence I run

S $89^{\circ}52'E.$ on random line bet. secs. 28 and 33.

40.00

Set temp. $\frac{1}{4}$ sec. cor.

79.99

Intersect the N. and S. line, 7 lks. S. of the cor. of secs 27.28.33 and 34.

Thence I run

N $89^{\circ}55'W.$ on true line bet. secs. 28 and 33.

Over nearly level land thru exceptionally dense underbrush.

4.45

Power line to Kingman, bears NE. and SW.

20.97

Telephone line to Kingman, bears NE. and SW.

21.40

Road, Kingman to Goldroads, bears NE. and SW.

39.99 $\frac{1}{2}$

Set a malpais stone, 18X12X6 ins., 12 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face; dig pits, 18X18X12 ins. E. and W. of stone, 3 ft. dist.; and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, E. of cor.

59.80

Wash, 20 lks. wide, course SW.

77.05

Wash, 20 lks. wide, course SW.

79.99

The cor. of secs. 28, 29, 32 and 33.

Land, nearby level.

Soil, gravelly; 2nd rate.

No timber.

Underbrush, greasewood, sage and cacti.

Land covered with exceptionally dense underbrush, and on account of the scarcity of water and other reasons more fully explained at the end of these notes, excepti-

Subdivision of Tp. 20 N., Rg. 18 West.

chains.

onally difficult to survey, 79.99 chs.

Thence I run

N 0°02'W. bet. secs. 28 and 29.

Over nearly level land thru exceptionally dense underbrush.

14.20 Wash, 15 lks. wide, course SW.

33.75 Wash, 15 lks. wide, course SW.

40.00 Set a malpais stone, 18X8X6 ins., 12 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face; dig pits, 18X18X12 ins., N. and S. of stone, 3 ft. dist.; and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, W. of cor.

71.55 Over loose rocks.

80.00 Set a malpais stone, 20X10X10 ins., 15 ins. in the ground, for cor. of secs. 20, 21, 28 and 29, marked with 2 notches on S. and 4 notches, on E. edge; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable. Land, nearly level.

Soil, gravelly and rocky; 3rd rate.

No timber.

Underbrush, greasewood, sage and cacti.

Land covered with loose rocks or exceptionally dense underbrush, and on account of the scarcity of water and other reasons more fully explained at the end of these notes, exceptionally difficult to survey, 80.00 chs.

January 21, 1910.

January 22; At 8h 00m., a.m., l.m.t., I set off $19^{\circ}43\frac{1}{2}'$ S. on the decl. arc; $35^{\circ}06'N.$ on the lat. arc; and determine a meridian with the solar at the cor. of secs. 20, 21, 28 and 29.

Thence I run

S $89^{\circ}55'E.$ on random line bet. secs. 21 and 28.

40.00 Set temp. $\frac{1}{4}$ sec. cor.

80.08 Intersect the N. and S. line, 9 lks. N. of the cor. of secs. 21, 22, 27 and 28.

Thence I run

N $89^{\circ}51'W.$ on true line bet. secs. 21 and 28.

Descending over loose rocks thru dense underbrush.

40.04 Set a malpais 15X10X6 ins., 10 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. Pits impracticable.

54.50 Bend in wash, comes from NE, course NW. Over loose rocks.

59.35 Same wash, 30 lks. wide, course SW. Over loose rocks.

70.50 Wash, 10 lks. wide, course SW. Over loose rocks.

80.08 The cor. of secs. 20, 21, 28 and 29.

Land, rolling.

Soil, rocky; 3rd rate.

No timber.

Underbrush, greasewood, sage and cacti.

Rolling land covered with loose rocks and dense underbrush, and on account of the scarcity of water and other reasons more fully explained at the end of these notes, exceptionally difficult to survey, 80.08 chs.

Thence I run

N 0°02'W. bet. secs. 20 and 21.

Over nearly level land covered with loose rocks thru dense underbrush.

16.70 Wash, 15 lks. wide, course SW. Over loose rocks.

40.00 Set a malpais stone, 15X10X8 ins., 10 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face; dig pits, 18X18X12 ins., N. and S. of stone, 3 ft. dist.; and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, W. of cor.

48'60 Wash, 35 lks. wide, course SW. Over loose rocks.

chains.

80.00

Set a malpais stone, 28X6X6 ins., 2 ins. in the ground, for cor. of secs. 16, 17, 20 and 21, marked with 3 notches on S. and 4 notches on E. edge; dig pits, 18X18X12 ins., in each sec. 5 1/2 ft. dist.; and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor.
 Land, nearly level.
 Soil, rocky; 3rd rate.
 No timber.
 Underbrush, greasewood, sage and cacti.
 Land covered with loose rocks and dense underbrush, and on account of the scarcity of water and other reasons more fully explained at the end of these notes, exceptionally difficult to survey, 80.00 chs.
 At this cor. I set off 19 43' S. on the decl. arc and observe the sun on the meridian at noon; the resulting lat. is 35 07' N.

40.00

80.08

Thence I run
 S 89° 51' E. on random line bet. secs. 16 and 21.
 Set temp. 1/4 sec. cor.
 Intersect the N. and S. line, 9 lks. S. of the cor. of secs. 15, 16, 21 and 22.

Thence I run

N 89° 55' W. on true line bet. secs. 16 and 21.

Slowly descending over loose rocks thru dense underbrush.

14.95

23.90

40.04

Wash, 15 lks. wide, course SW. Over loose rocks.
 Wash, 15 lks. wide, course SW. Over loose rocks.
 Set a malpais stone, 18X10X5 ins., 12 ins. in the ground, for 1/4 sec. cor., marked 1/4 on N. face; and raise a mound of stone 2 ft. base, 1 1/2 ft. high, N. of cor. Pits impracticable.

80.08

The cor. of secs. 16, 17, 20 and 21.

Land, rolling.

Soil, rocky; 3rd rate.

No timber.

Underbrush, greasewood, sage and cacti.

Rolling land covered with loose rocks and dense underbrush, and on account of the scarcity of water and of other reasons more fully explained at the end of these notes, exceptionally difficult to survey, 80.08 chs.

Thence I run

N 0° 02' W. bet. secs. 16 and 17.

Over nearly level land covered with loose rocks thru dense underbrush.

28.51

32.30

34.20

40.00

Wash, 15 lks. wide, course SW. Over loose rocks.
 Wash, 15 lks. wide, course SW. Over loose rocks.
 Wash, 15 lks. wide, course SW. Over loose rocks.
 Set a malpais stone, 15X12X6 ins., 10 ins. in the ground, for 1/4 sec. cor., marked 1/4 on W. face; and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of cor. Pits impracticable.

52.40

60.90

63.00

80.00

Wash, 20 lks. wide, course SW. Over loose rocks.
 Wash, 20 lks. wide, course SW. Over loose rocks.
 Wash, 20 lks. wide, course SW. Over loose rocks.

Set a malpais stone, 18X6X6 ins., 12 ins. in the ground, for cor. of secs. 8, 9, 16 and 17, marked with 4 notches on S. and E. edges; dig pits, 18X18X12 ins., in each sec., 5 1/2 ft. dist., and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor.

Land, rolling.

Soil, rocky; 3rd rate.

No timber.

Underbrush, greasewood, catclaw and cacti.

Rolling land covered with loose rocks and dense underbrush, and on account of the scarcity of water and other reasons more fully explained at the end of these notes, exceptionally difficult to survey, 80.00 chs.

January 22, 1910.

Subdivision of Tp.20 N.,Rg.18 West.

chains.

January 23; At 8h 00m..a.m.,l.m.t.,I set off $19^{\circ}29\frac{1}{2}'$ S. on the decl.arc; $35^{\circ}08\frac{1}{2}'$ N. on the lat.arc and determine a meridian with the solar at the cor. of secs. 8,9,16 and 17.

Thence I run

S $89^{\circ}55'$ E. on random line bet.secs.9 and 16.

40.00

Set a temp. $\frac{1}{4}$ sec.cor.

80.10

Intersect the N.and S. line,at the cor. of secs.9,10, 15 and 16.

Thence I run

N $89^{\circ}55'$ W. on true line bet.secs.9 and 16.

Slowly descend thru dense underbrush.

16.20

Wash,25 lks.wide,course SW.

19.10

Wash,35 lks.wide,course SW.

20.40

Wash,35 lks.wide,course SW.

24.25

Wash,35 lks.wide,course SW.

37.80

Wash.10 lks.wide,course SW.

40.05

Set a malpais stone,18X6X6ins.,12ins.in the ground, for $\frac{1}{4}$ sec.cor.,marked $\frac{1}{4}$ on N.face;dig pits,18X18X12ins. E.and W.of stone,3ft.dist.; and raise a mound of earth, $3\frac{1}{2}$ ft.base, $1\frac{1}{2}$ ft.high,N. of cor.

80.10

The cor. of secs.8,9,16 and 17.

Land,rolling.

Soil,gravelly; 2nd rate.

No timber.

Underbrush,greasewood,sage and cacti.

Rolling land covered with dense underbrush,and on account of the scarcity of water and other reasons more fully explained at the end of these notes,exceptionally difficult to survey,80.10 chs.

Thence I run

N $0^{\circ}02'$ W. bet.secs.9 and 8.

Over slightly rolling land thru dense underbrush.

40.00

Set a malpais stone,15X8X8ins.,10ins.in the ground, for $\frac{1}{4}$ sec.cor.,marked $\frac{1}{4}$ on W.face; dig pits,18X18X12ins. N.and S. of stone,3ft.dist.; and raise a mound of earth $3\frac{1}{2}$ ft.base, $1\frac{1}{2}$ ft.high,W. of cor.

80.00

Set a malpais stone,20X10X8ins.,15ins.in the ground, for cor. of secs.4,5,8 and 9,marked with 5 notches on S.and 4 notches on E.edge; dig pits,18X18X12ins.,in each sec, $5\frac{1}{2}$ ft.dist.; and raise a mound of earth,4ft. base,2ft.high,W. of cor.

Land,slightly rolling.

Soil,gravelly; 2nd rate.

No timber.

Underbrush,greasewood,sage and cacti.

Land covered with dense underbrush,and on account of the scarcity of water and other reasons more fully explained at the end of these notes,exceptionally difficult to survey,80.00 chs.

At this cor. I set off $19^{\circ}29'S$. on the decl.arc and observe the sun on the meridian at noon; the resulting, lat.is $35^{\circ}08\frac{1}{2}'$ N.

Thence I run

S $89^{\circ}55'$ E. on random line bet.secs.4 and 9.

40.00

Set temp. $\frac{1}{4}$ sec.cor.

80.10

Intersect the N.and S. line 5 lks.S. of the cor. of secs 3,4,9 and 10.

Thence I run

N $89^{\circ}57'$ W. on true line bet.secs.4 and 9

Over rolling land thru dense underbrush.

40.05

Set a malpais stone,15X8X6ins.,10ins.in the ground, for $\frac{1}{4}$ sec.cor.,marked $\frac{1}{4}$ on N.face; and dig pits,18X18X12 ins.,E.and W. of stone,3ft.dist.; and raise a mound of earth, $3\frac{1}{2}$ ft.base, $1\frac{1}{2}$ ft.high,N. of cor.

Subdivision of Tp.20 N.,Rg.18 West.

chains.
80.10

The cor. of secs.4,5,8 and 9.
Land,rolling.
Soil,gravelly; 3rd rate.
No timber.
Underbrush,greasewood,sage and cacti.
Rolling land covered with dense underbrush,and on a
account of the scarcity of water and other reasons more
fully explained at the end of these notes,exceptionally
difficult to survey,80.10 chs.

13.70
30.00
40.00

Thence I run
N 0°02'W. bet.secs.4 and 5.
Over level land thru dense underbrush.
Wash,60 lks.wide,course SW.
Leave dense underbrush,bears E.and W.
Set a malpais stone,15X8X6ins.,10ins.in the ground,for
1/4 sec.cor.,marked with 1/4 on W.face; dig pits,18X18X12ins
N.and S. of stone,3ft.dist.; and raise a mound of earth,
3 1/2 ft.base,1 1/2 ft.high,W. of cor.

81.55

Intersect the 5th standard Parallel N.,4,37 chs.W.
of the standard 1/4 sec.cor.,on S.bdy.of sec.33,which is
a stone,marked and witnessed as described by the Sur-
veyor General. Set a malpais stone,15X8X8ins.,10ins.,
in the ground,for closing cor. of secs.4 and 5.,marked
CC on S.,with 4 grooves on E.,and 2 grooves on W.face;
dig pits,24X18X12ins.,crosswise on each line,E.and W.
3ft.,and S.of stone,7ft.dist.; and raise a mound of
earth,4ft.base,2ft.high,S. of cor.
Land,level.
Soil,gravelly; 2nd rate.
No timber.
Underbrush,greasewood,sage and cacti.
Land covered with dense underbrush and on account of
the scarcity of water and other reasons more fully ex-
plained at the end of these notes,exceptionally difficult
to survey,30.00 chs.

January 23,1910.

January 24; At 8h 00m.,a.m.,l.m.t.,I set off 19° 15 1/2'
S. on the decl.arc; 35° 04 1/2' N. on the lat.arc and deter-
mine a meridian with the solar at the cor. of secs.5,6,
31 and 32.on the south bdy.

40.00

Thence I run
N 0°03'W. bet.secs.31 and 32.
Over level land thru dense underbrush.
Set a malpais stone,18X10X8ins.,12ins.in the ground
for 1/4 sec.cor.,marked 1/4 on W.face; dig pits,18X18X12ins.
N.and S.of stone,3ft.dist.; and raise a mound of earth,
3 1/2 ft.base,1 1/2 ft.high,W. of cor.

73.00
80.00

Wash,10 lks.wide,course SE.
Set a malpais stone,18X10X8ins.,12ins.in the ground,
for cor. of secs.29,30,31 and 32,marked with 1 notch on
S.and 5 notches on E,edge; dig pits,18X18X12ins.,in
each sec.5 1/2 ft.dist.; and raise a mound of earth,4ft.
base,2ft.high,W. of cor.

Land,level.
Soil,gravelly; 2nd rate.
No timber.
Underbrush,greasewood,sage and cacti.
Land covered with dense underbrush,and on account of
the scarcity of water and other reasons more fully exp-
lained at the end of these notes,exceptionally difficult
to survey,80.00 chs.

40.00
80.04

Thence I run
S 89°52'E. on random line bet.secs.29 and 32.
Set a temp. 1/4 set cor.
Intersect the N.and S. line 7 lks.S. of the cor. of
secs 28.29,32 and 33.

Subdivision of Tp.20 N.,Rg.18 West.

chains

	Thence I run N 89°55'W. on true line bet.secs.29 and 32. Slowly descend thru dense underbrush.
16.37	Wash,15 lks.wide,course,SW.
24.00	Across Sacramento wash,course S.
36.00	Leave wash,course S.
40.02	Set a malpais stone,15X10X6ins.,10ins.in the ground for $\frac{1}{4}$ sec.cor.,marked $\frac{1}{4}$ on N.face; dig pits,18X18X12ins. E.and W. of stone,3ft.dist.; and raise a mound of earth, 3 $\frac{1}{2}$ ft.base,1 $\frac{1}{2}$ ft.high,N. of cor.
80.04	The cor. of secs.29,30,31 and 32. Land,rolling. Soil,rocky; 3rd rate. No timber. Underbrush,greasewood,sage and cacti. Rolling land covered with dense underbrush,and on account of the scarcity of water and other reasons more fully explained at the end of these notes,exceptionally difficult to survey,80.04 chs. At this cor. I set off 19°15'S. on the decl.arc and observe the sun on the meridian at noon;the resulting lat.is 35°05 $\frac{1}{2}$ 'N.
	Thence I run N 89°52'W. on random line bet.secs.30 and 31.
40.00	Set temp. $\frac{1}{4}$ sec.cor.
79.40	Intersect the 5th Guide meridian 11 lks.S. of the cor. of secs.25,30,31 and 36.marked and witnessed as desc. Thence I run by the Surveyor General. S 89°47'E. on true line bet.secs.30 and 31. Over level land thru dense underbrush.
22.65	Wash,20 lks.wide,course SE.
25.85	Wash,20 lks.wide,course SE.
39.40	Set a malpais stone,24X6X6ins.,18ins.in the ground, for $\frac{1}{4}$ sec.cor.,marked $\frac{1}{4}$ on N.face; dig pits,18X18X12ins. E.and W. of stone,3ft.dist.; and raise a mound of earth, 3 $\frac{1}{2}$ ft.base,1 $\frac{1}{2}$ ft.high,N. of cor.
45.50	Wash,20 lks.wide,course SE.
62.45	Wash,20 lks.wide,course SE.
65.10	Wash,20 lks.wide,course SE.
72.70	Wash,10 lks.wide,course SE.
79.40	The cor. of secs.29,30,31 and 32. Land,level. Soil,gravelly; 3rd rate. No timber. Underbrush,greasewood,sage and cacti. Land covered with dense underbrush,and on account of the scarcity of water and other reasons more fully explained at the end of these notes,exceptionally diff- icult to survey,79.40 chs.
	Thence I run N 0°03'W. bet.secs. 29 and 30. Over level land thru dense underbrush.
40.00	Set a malpais stone,24X12X10ins.,18ins.in the ground, for $\frac{1}{4}$ sec.cor.,marked $\frac{1}{4}$ on W.face; dig pits,18X18X12in N.and S. of stone,3ft.dist., and raise a mound of earth, 3 $\frac{1}{2}$ ft.base,1 $\frac{1}{2}$ ft.high,W. of cor.
76.50	Wash,20 lks.wide,course SE.
80.00	Set a malpais stone,18X12X8ins.,12ins.in the ground,for cor. of secs.19,20,29 and 30,marked with 2 notches on S,and 5 notches on E.edge; dig pits,18X18X12ins.,in each sec.5 $\frac{1}{2}$ ft.dist.; and raise a mound of earth,4ft. base ,2ft.high,W. of cor. Land,level. Soil,gravelly; 2nd rate. No timber. Underbrush,greasewood,sage and cacti. Land covered with dense underbrush and on account of

Subdivision of Tp.20 N., Rg 18 West.

chains.

the scarcity of water and other reasons more fully explained at the end of these notes, exceptionally difficult to survey, 80.00 chs.

January 24, 1910.

January 25; At 8h 00m. a.m., l.m.t., I set off 19° 01' S. on the decl. arc; 35° 06' N. on the lat. arc and determine a meridian with the solar at the cor. of secs. 19, 20, 29 and 30.

Thence I run

S 89° 55' E. on random line bet. secs. 20 and 29.

40.00 Set temp. 1/4 sec. cor.

79.98 Intersect the N. and S. line 2 lks. S. of the cor. of secs 20, 21, 28 and 29.

Thence I run

N 89° 56' W. on true line bet. secs. 20 and 29.

Descend over loose rocks thru dense underbrush.

15.20 Wash, 20 lks. wide, course SW. Over loose rocks.

28.00 Sacramento wash, 600 lks. wide, course S. Over loose rocks

39.99 Set a malpais stone, 20x10x6 ins., 15 ins. in the ground, for 1/4 sec. cor., marked 1/4 on N. face; dig pits, 18x18x12 ins., E. and W. of stone, 3 ft. dist.; and raise a mound of earth, 3 1/2 ft. base, 1 1/2 ft. high, N. of cor.

79.98 The cor. of secs. 19, 20, 29 and 30.

Land, rolling.

Soil, rocky; 3rd rate.

No timber.

Underbrush, greasewood, sage and cacti.

Land covered with loose rocks and dense underbrush, and on account of the scarcity of water and other reason more fully explained at the end of these notes, exceptionally difficult to survey, 79.98 chs.

Thence I run

N 89° 47' W. on random line bet. secs. 19 and 30.

40.00 Set temp. 1/4 sec. cor.

79.38 Intersect the 5th Guide meridian 16 lks. N. of the cor. of secs. 19, 24, 25 and 30, which is a stone, marked and witnessed as described by the Surveyor General.

Thence I run

S 89° 54' E. on true line bet. secs. 19 and 30.

Over slightly rolling land thru dense underbrush.

12.40 Wash, 10 lks. wide, course S.

34.00 Wash, 10 lks. wide, course S.

34.50 Wash, 10 lks. wide, course S.

39.38 Set a malpais stone, 18x12x8 ins., 12 ins. in the ground, for 1/4 sec. cor., marked 1/4 on N. face; dig pits, 18x18x12 ins., E. and W. of stone, 3 ft. dist.; and raise a mound of earth, 3 1/2 ft. base, 1 1/2 ft. high, N. of cor.

43.70 Wash, 45 lks. wide, course S.

44.60 Wash, 15 lks. wide, course S.

67.40 Wash, 15 lks. wide, course S.

79.38 The cor. of secs. 19, 20, 29 and 30.

Land, rolling.

Soil, sandy and gravelly; 2nd rate.

No timber.

Underbrush, greasewood, sage and cacti.

Rolling land covered with dense underbrush, and on account of the scarcity of water and other reasons more fully explained at the end of these notes, exceptionally difficult to survey, 79.38 chs.

At this cor. I set off 19° 00 1/2' S. on the decl. arc and observe the sun on the meridian at noon; the resulting lat. is 35° 06' N.

Thence I run

N 0° 03' W. bet. secs. 19 and 20.

Over level land thru dense underbrush.

Subdivision of Tp.20 N.,Rg.18 West.

chains.
 40.00 Set a malpais stone, 18X12X6 ins., 12 ins. in the ground for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face; dig pits, 18X18X12 ins. N. and S. of stone, 3 ft. dist.; and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
 66.00 Wash, 15 lks. wide, course SE.
 80.00 Set a malpais stone, 18X8X6 ins., 12 ins. in the ground, for cor. of secs. 17, 18, 19 and 20, marked with 3 notches on S. and 5 notches on E. edge; dig pits, 18X18X12 ins., in each sec. $5\frac{1}{2}$ ft. dist.; and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor.
 Land, level.
 Soil, sandy loam, 2nd rate.
 No timber.
 Underbrush, greasewood, sage and cacti.
 Land covered with dense underbrush, and on account of the scarcity of water and other reasons more fully explained at the end of these notes, exceptionally difficult to survey, 80.00 chs.

Thence I run
 S $89^{\circ}56'$ E. on random line bet. secs. 17 and 20.
 40.00 Set temp. $\frac{1}{4}$ sec. cor.
 80.04 Intersect the N. and S. line 11 lks. N. of the cor. of secs 16, 17, 20 and 21.
 Thence I run
 N $89^{\circ}51'$ W. on true line bet. secs. 17 and 20.
 Descend slowly thru dense underbrush.
 6.85 Wash, 15 lks. wide, course SW.
 36.25 Wash, 130 lks. wide, course SW.
 40.02 Set a malpais stone, 18X6X6 ins., 12 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face; dig pits, 18X18X12 ins. E. and W. of stone, 3 ft. dist.; and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, N. of cor.
 50.95 Wash, 70 lks. wide, course S.
 56.80 Wash, 70 lks. wide, course S.
 80.04 The cor. of secs. 17, 18, 19 and 20.
 Land, level.
 Soil, gravelly; 3rd rate.
 No timber.
 Underbrush, greasewood, catclaw, sage and cacti.
 Land covered with dense underbrush, and on account of the scarcity of water and other reasons more fully explained at the end of these notes, exceptionally difficult to survey, 80.04 chs.

January 25; 1910.

January 26; At 8h. 00m., a.m., l.m.t., I set off $18^{\circ}46'$ S. on the decl. arc; $35^{\circ}07'$ N. on the lat. arc and determine a meridian with the solar at the cor. of secs. 17, 18, 19 and 20.
 Thence I run
 West bet. secs. 18 and 19.
 Over nearly level land thru dense underbrush.
 2.00 Wash, 10 lks. wide, course S.
 40.00 Set a malpais stone, 18X8X6 ins., 12 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face; dig pits, 18X18X12 ins. E. and W. of stone, 3 ft. dist.; and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, N. of cor.
 54.65 Wash, 15 lks. wide, course S.
 55.75 Wash, 15 lks. wide, course S.
 61.75 Wash, 15 lks. wide, course S.
 66.80 Wash, 15 lks. wide, course S.
 71.35 Wash, 15 lks. wide, course S.
 76.85 Wash, 15 lks. wide, course S.
 79.17 Intersect the 5th Guide Meridian 85 lks. S. of the cor. of secs. 13, and 24, which is a stone, marked and witnessed as described by the Surveyor General; I dig the pits to the NW. and SW. and rebuild the mound to the W. of stone and fill the pits to the NE. and SE. to make it a cor. to 2

Secs.

Subdivision of Tp.20 N.,Rg.18 west.

chains.

Set a malpais stone,18X10X6ins.,12ins.in the ground for closing cor.bet.secs.18 and 19,marked CC on E.,with 3 grooves on N.and S.faces; dig pits,24X18X12ins., crosswise on each line,N.and S.3ft.,and E. of stone,7ft. dist.; and raise a mound of earth,4ft.base,2ft.high,E. of cor.

Land,rolling.
Soil,sandy loam,2nd rate.
No timber.
Underbrush,greasewood and cacti.

Rolling land covered with dense underbrush,and on a account of the scarcity of water and other reasons more fully explained at the end of these notes,exceptionally difficult to survey,79.17 chs.

Thence I run
N 0°03'W. bet.secs.17 and 18.
Over level land thru dense underbrush.

37.20 Wash,120 lks.wide,course SE.

40.00 Set a malpais stone,18X12X6ins.,12ins.in the ground, for 1/4 sec.cor.,marked 1/4 on W.face; dig pits,18X18X12ins. N.and S. of stone,3ft.dist.; and raise a mound of earth, 3 1/2 ft.base,1 1/2 ft.high,W. of cor.

80.00 Set a malpais stone,24X12X12ins.,18ins.in the ground, for cor. of secs.7,8,17 and 18,marked with 4 notches on S.and 5 notches on E.edge; dig pits,18X18X12ins.,in each sec,5 1/2 ft.dist.; and raise a mound of earth,4ft.base, 2ft.high,W. of cor.

Land,level.
Soil,gravelly; 2nd rate.
No timber.
Underbrush,greasewood,sage and cacti.

Land covered with dense underbrush,and on account of the scarcity of water and other reasons more fully explained at the end of these notes,exceptionally difficult to survey,80.00 chs.

At this cor. I set off 18°45 1/2'S. on the delc.arc and observe the sun on the meridian at noon; the resulting lat.is 35°08'N.

Thence I run
S 89°51'E. on random line bet.secs.8 and 17.

40.00 Set temp.1/4 sec.cor.

80.04 Intersect the N.and S. line,7 lks.S. of the cor. of sec 8,9,16 and 17.

Thence I run
N 89°54'W. on true line bet.secs.8 and 17.
Over level land thru dense underbrush.

4.45 Wash,10 lks.wide,course SW.

10.00 Wash,10 lks.wide,course SW.

12.80 Wash,10 lks.wide,course SW.

15.80 Wash,15 lks.wide,course SW.

27.00 Wash,70 lks.wide,course S.

28.00 Wash,60 lks.wide,course S.

40.02 IntSet a malpais stone,18X8X6ins.,12ins.in the ground, for 1/4 sec.cor.,marked 1/4 on N.face; dig pits,18X18X12ins. E.and W. of stone,3ft.dist.; and raise a mound of earth 3 1/2 ft.base,1 1/2 ft.high,N. of cor.

80.04 The cor. of secs.7,8,17 and 18.

Land,level.
Soil,gravelly; 2nd rate.
No timber.
Underbrush,greasewood,cactclaw,sage and cacti.

Land covered with dense underbrush,and on account of the scarcity of water and other reasons more fully explained at the end of these notes,exceptionally difficult to survey,80.04 chs.

Subdivision of Tp.20 N.,Rg.18 West.

chains.	Thence I run West bet. secs. 7 and 18. Over level land thru dense underbrush.
11.50	Wash, 300 lks. wide, course S.
19.45	Wash, 25 lks. wide, course S.
40.00	Set a malpais stone, 15X12X6 ins., 10 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face; dig pits, 18X18X12 ins. E. and W. of stone, 3 ft. dist.; and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, N. of cor.
68.00	Wash, 20 lks. wide, course SE.
75.00	Wash, 20 lks. wide, course SE.
76.00	Wash, 20 lks. wide, course SE.
78.95	Intersect the 5th Guide Meridian 98 lks. S. of the cor. of secs. 12 and 13, which is a stone, marked and witnessed as described by the Surveyor General, I destroy the pits, to the SE. and NE. and redig the pits to the NW, and SW., and build mound of earth, 4 ft. base, 2 ft. high, W. of cor. Set a malpais stone, 18X10X8 ins., 12 ins. in the ground, for closing cor. of secs. 7 and 18, marked CC on E., with 4 grooves on S., and 2 grooves on N. face; dig pits, 24X18X12 ins., crosswise on each line, N. and S., 3 ft., and E. of stone 7 ft. dist.; and raise a mound of earth, 4 ft. base, 2 ft. high, E. of cor. Land, level. Soil, gravelly; 2nd rate. No timber. Underbrush, greasewood, sage and cacti. Land covered with dense underbrush, and on account of the scarcity of water and other reasons more fully explained at the end of these notes, exceptionally difficult to survey, 78.95 chs,
	January 26, 1910.
	January 27; At 8h 00m., a.m., l.m.t., I set off 18 ^{31'} S. on the decl. arc; 35° 08' N. on the lat. arc and determine a meridian with the solar at the cor. of secs. 7, 8.17 and 18.
	Thence I run N 0° 03' W. bet. secs. 7 and 8. Over level land thru dense underbrush.
27.35	Wash, 50 lks. wide, course SW.
33.45	Wash, 30 lks. wide, course SW.
40.00	Set a malpais stone, 18X8X6 ins., 12 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face; dig pits, 18X18X12 ins. N. and S. of stone, 3 ft. dist.; and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
80.00	Set a malpais stone, 18X10X8 in., 12 ins. in the ground, for cor. of secs. 5, 6, 7, and 8, marked with 5 notches on S. and E. edges; dig pits, 18X18X12 ins., in each sec. $5\frac{1}{2}$ ft dist.; and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor. Land, level. Soil, gravelly; 2nd rate. No timber. Underbrush, greasewood, sage and cacti. Land covered with loose rocks and dense underbrush, and on account of the scarcity of water and other reasons more fully explained at the end of these notes, exceptionally difficult to survey, 80.00 chs.
	Thence I run S 89° 54' E. on random line bet. secs. 5 and 8.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
80.00	Intersect the N. and S. line 5 lks. S. of the cor. of secs. 4, 5, 8 and 9. Thence I run N 89° 56' W. on true line bet. secs. 5 and 8. Over level land covered with dense underbrush.
14.00	Leave dense underbrush, bears N. and S.

Subdivision of Td. 20 N., Rg. 18 West.

chains.	
14.90	Wash, 60 lks. wide, course S.
20.00	Enter dense underbrush, bears N. and S.
40.00	Set a malpais stone, 15X8X6 ins., 10 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face; dig pits, 18X18X12 ins E. and W. of stone, 3 ft. dist.; and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, N. of cor.
66.00	Wash, 15 lks. wide, course S.
80.00	The cor. of secs. 5, 6, 7 and 8. Land, level. Soil, gravelly; 2nd rate. No timber. Underbrush, greasewood, sage and cacti. Land covered with dense underbrush, and on account of the scarcity of water and other reasons more fully explained at the end of these notes, exceptionally difficult to survey, 84.00 chs. At this cor. I set off $18^{\circ}30\frac{1}{2}'$ S. on the decl. arc; and observe the sun on the meridian at noon; the resulting lat. is $35^{\circ}08\frac{1}{2}'$ N. ✓
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	Thence I run West bet. secs. 6 and 7. Over slightly rolling land thru dense underbrush.
29.40	Wash, 200 lks. wide, course S.
40.00	Set a malpais stone, 18X10X8 ins., 12 ins. in the ground for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face; dig pits, 18X18X12 ins. E. and W. of stone, 3 ft. dist.; and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, N. of cor.
56.80	Wash, 30 lks. wide, course SE.
64.40	Wash, 20 lks. wide, course SE.
79.00	Intersect the 5th Guide Meridian 1.14 chs. S. of the cor. of secs. 1 and 12, which is a stone, marked and witnessed as described by the Surveyor General; I destroy the pits to the NE. and SE. and redig pits to the NW. and SW., and rebuild mound of earth, 4 ft. base, 2 ft. high, W. of cor. Set a malpais stone, 18X8X6 ins., 12 ins. in the ground, for closing cor. of secs. 6 and 7, marked CC on E., with 5 grooves on S. and 1 groove on N. face; dig pits, 24X18X12 ins., crosswise on each line, N. and S. 3 ft., and E. of stone, 7 ft. dist.; and raise a mound of earth, 4 ft. base, 2 ft. high, E. of cor. Land, rolling. Soil, gravelly; 3rd rate. No timber. Underbrush, greasewood, sage and cacti. Rolling land covered with dense underbrush, and on account of the scarcity of water and other reasons more fully explained at the end of these notes, exceptionally difficult to survey, 79.00 chs.
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	Thence I run N $0^{\circ}03'$ W. bet. secs. 5 and 6. Over level land thru dense underbrush.
12.00	Wash, 30 lks. wide, course SE.
40.00	Set a malpais stone, 18X10X6 ins., 12 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face; dig pits, 18X18X12 ins. N. and S. of stone, 3 ft. dist.; and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
81.42	Intersect the 5th Standard Parallel N., 4.22 chs. W. of standard $\frac{1}{4}$ cor. on S. bdy. of sec. 32, which is a stone, marked and witnessed as described by the Surveyor General Set a malpais stone, 24X12X8 ins., 18 ins. in the ground, for closing cor. of secs. 5 and 6, marked CC on S., with 5 grooves on E., and 1 groove on W. face; dig pits, 24 X18X12 ins., crosswise on each line, E. and W. 3 ft., and S. of stone, 7 ft. dist.; and raise a mound of earth, 4 ft. base, 2 ft. high, S. of cor.

Subdivision of Tp. 20 N., Rg. 18 West.

chains.

Land, level.

Soil, gravelly; 2nd rate.

No timber.

Underbrush, greasewood, sage and cacti.

Land covered with dense underbrush, and on account of the scarcity of water and other reasons more fully explained at the end of these notes, exceptionally difficult to survey, 81.42 chs.

January 27, 1910.

SUMMARY

This township is rolling and level land, covered with loose rocks and dense underbrush. The soil, is rocky and gravelly 2nd and 3rd rate.

No settlers.

There is no water within this Tp. and in order to get water while surveying this Tp. it was necessary to go a distance of 14 miles. The length of this haul for water, 28 miles to a trip, kept an extra team, wagon and man busy all the time. As it was necessary to make a road from each camp to the road on which the tank we obtained water from was located, and the fact that we had to keep 3 barrels of water on hand for camp use, camp team and line team, it was impossible to move camp to suit the work and I had to work the Tp. from one camp making long walks to and from work and materially cutting down the number of miles run in a day.

A large part of this Tp., although covered with loose rocks, did not have stones large enough to use for cor. rocks, and knowing that the most essential part of a survey is the establishment of cors. which will not be easily destroyed, I employed an extra team, wagon and man to haul rocks for corners, in preference to setting mound of earth with deposits and stake in pit, which would have been, easier, and cost less but would have soon been obliterated. The average haul for rocks was 5 miles and kept the line team busy at all times.

The heavy snowfall here in the early winter had rotted out the grass, so I had to buy and haul hay from Kingman to feed the extra teams made necessary by the scarcity of water and hauling rocks for substantial corners.

The fact that the ground, covered by this Tp. is partly maximum, and the other part is nearly maximum, far worse than ordinary intermediate, and the extra expenses and troubles incurred in properly executing the survey of this Tp., have made this Tp. very exceptionally difficult to survey, and I ask to be allowed those rates.

Fred W. Rodolf
U. S. Deputy Surveyor

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by Fred W. Rodolf

....., United States Deputy Surveyor, to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the survey of the subdivision lines of Township 20 North, Range 18 West. showing the respective capacities in which they acted:

- A. P. Kerns....., Chainman.
- Bert Lyon....., Chainman.
- Ralph R. Ellis....., Moundman.
-, Moundman.
- R. N. Stark....., Axman.
- P. M. Parker....., Axman.
- George Newell....., Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Fred W. Rodolf

....., United States Deputy Surveyor, in surveying all those parts or portions of the subdivision of Township 20 North, Range 18 West

..... of the Sixth Salt River Base & meridian, Penitoy of Arizona, which are represented in the foregoing field notes as having been surveyed by him and under his direction; and that said survey has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the corner monuments established, according to the instructions furnished by the United States Surveyor

General for Arizona

- A. P. Kerns....., Chainman.
- Bert Lyon....., Chainman.
- Ralph R. Ellis....., Moundman.
-, Moundman.
- R. N. Stark....., Axman.
- P. M. Parker....., Axman.
- George Newell....., Flagman.

Subscribed and sworn to before me this 7 day of March, 1910



W. J. French
Notary Public

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BOOK 2194

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, Fred W. Rodolf, United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from Frank S. Ingalls United States Surveyor General for Arizona, bearing date of the 10 day of March, 1909, I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for Arizona, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of the Subdivision lines of Township 20 North, Range 18 West.

..... of the Gila & Salt River Base & meridian, in the Territory of Arizona, which are represented in the foregoing field notes as having been surveyed 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 accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for Arizona and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey.

Fred W. Rodolf
United States Deputy Surveyor.

Subscribed by said Fred W. Rodolf, and sworn to before me }
this 27 day of April, 1910



Frank S. Ingalls
Secretary
Frank S. Ingalls
U. S. Surveyor General

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Phoenix, Ariz. Aug 18, 1910

The foregoing field notes of the survey of the Subdivision lines of Twp. 20 N. R. 18 W. of the Gila and Salt River Base and Meridian, Arizona.

executed by Fred W. Rodolf, U.S. Deputy Surveyor under his contract No. 155, dated March 10, 1909, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

Frank S. Ingalls
United States 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.

United States Surveyor General.