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Book A
2317
FIELD NOTES

re
OF THE SURVEY OF THE

BOOK 2317

2317

✓ East Boundaries of Sps.	21	22	23	24	25	26	27	N	R	17	W
✓ " " " "				24	25	26		N	R	16	W
✓ " " " "		22	23	24	25			N	R	15	W
✓ " " " "		21	22	23				N	R	14	W
✓ " " " "	20	21						N	R	13	W
North		21					R	13			W
✓ " " " "		22						14			W
✓ " " " "		23					13	14	15	16	W
✓ " " " "		25							15	16	W
✓ " " " "		26								16	W

2317

Of the G. and S. R. Meridian,

In the State of Montana

EXECUTED BY

Jesse B. Wright

In the capacity of U. S. Surveyor, under instructions dated September 16, 1910,
issued by the United States Surveyor General to govern surveys included in
Group No. 10, which were approved by the Commissioner of the General Land
Office, September 28, 1910, pursuant to authority contained in the Act of
Congress dated June 25, 1910 ^{and March 4, 1911}

2317

Survey commenced September 28, 1910

Survey completed May 8, 1911

2317

INDEX DIAGRAM.

Township _____, *Range* _____

6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
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INDEX DIAGRAM.

Township , *Range*

6	5	4	3	2	1
7	8	9	10	11	12
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BOOK 2317

PRELIMINARY OATHS OF ASSISTANTS.

WE, ^{Frank E. Crofoot.} Herbert Worcester, and ^{Edgar M. Darnall.} Walter J. Thompson,

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

Township exterior resurveyed under Group 10

Herbert Worcester, Chainman.
Frank E. Crofoot, Chainman.

Walter J. Thompson, Chainman.

Subscribed and sworn to before me this 29th day of Sept, 1910



WE, James R. Smith, and Rex Haskins,

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

Township exterior resurveyed under Group 10

James R. Smith, Moundman.

Bart Tison, Moundman.
Rex Haskins, Moundman.

Tom Noonan, Moundman.

Subscribed and sworn to before me this 29th day of Sept, 1910



WE, Edgar Morris, and Gus Nuttig,

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

Township exterior resurveyed under Group 10

Edgar Morris, Axman.

Gus Nuttig, Axman.

Subscribed and sworn to before me this 29th day of Sept, 1910



I, James Morrow and Louie Van Marter, 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

Township exterior resurveyed under Group 10

James Morrow, Flagman.
Louie Van Marter, Flagman.

Subscribed and sworn to before me this 29th day of Sept, 1910



James Morrow, Flagman.
Louie Van Marter, Flagman.

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BOOK 2317

1913

16W

15W

14W

13W

Book No. 2317

Explanation

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- _____ " " C, " "
- _____ " " D, " "
- _____ " " A, " 9
- _____ This book.

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26N

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25N

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5th St. Par. N.

20N

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Chains.

Survey commenced Sept. 28, 1910, and executed with a W. & L. E. Gurley light mountain transit, with Burt's patent solar attachment.

The horizontal limb of the instrument is provided with two double verniers placed opposite to each other, and each reading to 1' of arc, which is also the least reading of the verniers of the lat. and decl. arcs of the solar. At a point near my camp in Hackberry village, on this date, I examine and test all the adjustments of the transit and solar attachment, and correct the levels and line of collimation, which I find slightly in error. Then, in order to test the solar apparatus, by comparing the results of observations, on the sun; for meridians, made during p.m. & a.m. hours, respectively, with a true meridian determined by observation of Polaris, I proceed as follows :-

At 11h 51m a.m., l.m.t., I set off $1^{\circ}53'S.$ on the decl. arc, and observe the sun on the meridian.

The resulting lat. is $35^{\circ}22\frac{1}{2}'N.$

At 4h p.m., l.m.t., I set off $1^{\circ}55'S.$ on the decl. arc, and my observed lat. $35^{\circ}22\frac{1}{2}'N.$ on the lat. arc, and determine a meridian with the solar, and mark a point in the meridian thus determined by a tack in a stake driven firmly in the ground 5 chs. N. of my station.

At 7h 5m p.m., l.m.t., I observe Polaris at E. elongation, in accordance with instructions in the "Manual", and mark the line thus determined by a cross on a fixed stone 6 chs. N. of my station. Sept. 28, 1910.

Sept. 30, 1910.

At 7h 45m a.m., l.m.t., I set off the azimuth of Polaris, $1^{\circ}25'$ to the West, and mark the true meridian thus determined by a tack in the stake 5 chs. N. of my station, which point falls .30 ins. E. of the point in the meridian as determined by the solar on evening of Sept. 28th.

At 8h a.m., l.m.t., I set off $2^{\circ}35'S.$ on the decl. arc, and $35^{\circ}22\frac{1}{2}'N.$ on the lat. arc, and determine a meridian with the solar, and mark a point in the meridian thus determined by a tack in the stake 5 chs. N. of my station, which point falls .20 ins. E. of the point in the true meridian as determined by observation of Polaris.

The solar apparatus, by p.m. & a.m. observations, defines positions for meridians, about $15''W.$ & $11''E.$, respectively, of the true meridian as determined by observation of Polaris. Therefore, from these observations, I conclude that my instrument is in satisfactory adjustment.

The magnetic bearing of the true meridian at 8h a.m., is $N.15^{\circ}25'W.$, the angle thus determined gives the magnetic declination as $15^{\circ}25' E.$

I now proceed to the cor. of secs. 19, 24, 25 & 30, on the West boundary of T. 23 N., R. 13 W., which is a granite stone $12 \times 8 \times 6$ ins. above ground, marked and witnessed as described by the Surveyor General. Before beginning the surveys, as proposed under Groups 9 & 10, I find it necessary to test the measurement and alinement of certain lines, and also to locate some of the old corners of the original surveys, in order that I can properly initiate and close my surveys on the old surveys in this district.

Therefore, at 8h 20m a.m., l.m.t., at the corner above described, lat. $35^{\circ}22'N.$, long. $113^{\circ}42'50''W.$,

I set off $2^{\circ}35' S.$ on the decl. arc, and $35^{\circ}22' N.$ on the lat. arc, and determine a true meridian with the solar. Thence I run,

2 Retracement of West Boundary of T. 23 N., R. 13 W.

Chains.

North, on West bdy. sec. 19,
 Over gently rolling land, Var. 15°25' E.
 Desc. grad.

26.10 Road, Hackberry to Sandy & Signal, brs. NW. & SE.
 32.00 Fence, brs. N.70°W. & S. 70°E.
 32.90 Hous of William F. Grounds, brs. East, 150 lks. dist.
 35.20 Fence, brs. NE. & SW.
 35.96 Find witness cor. to $\frac{1}{4}$ sec. cor., at a point 5 lks. W. of
 line, which is malapais stone, 10x10x6 ins. above ground
 marked and witnessed as described by the Surveyor General.
 I rebuild the mound of stone W. of cor.
 continue measurement and alinement North.

37.30 Enter Truxton wash, course WNW.
 39.96 Point for $\frac{1}{4}$ sec. cor. in wash.
 46.00 Leave wash, course WNW. ascend.
 47.45 Western Union Telegraph line, brs. N.71°W. & S.71°E.
 48.45 Centre of single track of Atchison, Topeka & Santa Fe RR.,
 brs. N.71°W. & S.71° E.
 49.45 Postal Telegraph line, brs. N.71°W. & S.71°E.
 66.10 Wash, 50 lks. wide, course WSW.
 71.20 Old road, brs. NW. & SE.
 79.80 Find old cor. of secs. 13, 18, 19 & 24, 12 lks. W. of line,
 which is a granite stone 8x6x6 ins. above ground,
 marked and witnessed as described by the Surveyor Gen.
 The true course and dist. of this mile is N.0°5'W., 79.80 chs.
 Land, rolling, broken.
 Soil, 3rd rate, sandy, gravelly.
 Sparse mesquite, tesseta, cacti. Fair grazing.

North, on West bdy. sec. 18.
 Over heavily rolling land, asc. grad.

.10 Wash, 20 lks. wide, course SW.
 18.00 Rocky point, brs. SW. & NE., desc. grad.
 21.95 Wash, 20 lks. wide, course SW., asc.
 24.00 Desc. steep.
 24.95 Wash, 200 lks. wide, course SW.
 27.00 Leave valley asc. steep S. slope of Music Mountains.
 39.50 Top of rocky spur, brs. SE. & NW., thence on same. desc.
 40.00 Find $\frac{1}{4}$ sec. cor. 17 lks. W. of line, which is a granite
 stone, 40x15x8 ins., set on bed rock, in mound of
 stone, marked and witnessed as described by the
 Surveyor General.
 I continue my measurement and alinement North.

45.00 Asc. along E. slope.
 61.50 Summit, of rocky spur, brs. W. & E., desc. prec.
 64.50 Ravine, 50 lks. wide, course E., asc.
 71.00 Top of rocky spur, brs. W. & W., desc.
 72.00 Wash, 10 lks. wide, course E., asc.
 76.00 Top of rocky spur, brs. E. & W., desc. prec.
 78.50 Gulch, 150 lks. wide, 100 ft. deep, course W., asc. prec.
 80.20 Find cor. of secs. 7, 12, 13 & 18, 35 lks. W. of line,
 which is a granite boulder in place, 6x3x3 ft. above
 ground, marked and witnessed as described by the
 Surveyor General.
 True course and dist. of this mile is N.0°15'W. 80.20 chs.
 Land, rolling, mts., rough.
 Soil, 3rd rate, gravelly, stony.
 Scattering palonegro, cacti, sparse grass.

Sept. 30, 1910.

Chains.

Oct. 9, 1910.

At 9h a.m., l.m.t., at the cor. of secs. 7, 12, 13 & 18,
I set off $6^{\circ}4'S$ on the decl. arc, and $35^{\circ}23'N$ on the
lat. arc, and determine a true meridian with the solar.
Thence I run,

- North, on West bdy. sec. 7.
Over mts. land, asc. steep.
- 2.80 Top, brs. E. & W., desc.
6.50 Gulch, 50 lks. wide, 100 ft. deep, course W., asc.
10.50 Gulch, 50 lks. wide, course W.,
12.00 Gulch, 80 lks. wide, course W., asc.
19.40 Top of rocky spur, brs. W. & E., desc.
23.20 Gulch, 50 lks. wide, course NW., asc.
26.30 Top, brs. NW. & SE., desc.
30.25 Gulch, 50 lks. wide, course WNW., asc.
34.30 Top, brs. NW. & SE., desc.
40.10 Find $\frac{1}{4}$ sec. cor. 12 lks. W. of line, which is a malapais
stone 10x10x8 ins. above ground, marked and witnessed
as described by the Surveyor General.
I continue my measurement and alinement, North.
- 50.50 Foot of spur, brs. NW. & SE., thence over rolling land.
76.50 Wash, 15 lks. wide, course SW.
80.70 Find cor. of secs. 1, 6, 7 & 12, at a point 24 lks. W. of line,
which is a granite stone 10x6x8 ins. above ground,
marked and witnessed as described by the Surveyor General.
True course and dist. of this mile is $N.0^{\circ}10'W$. 80.70 chs.
Land, mts., rolling.
Soil, 3rd rate, sandy, gravelly, stony.
Scattering palonegro, greasewood, cacti, native grass.
At this cor. at noon, I set off $6^{\circ}7'S$ on the
decl. arc, and observe the sun on the meridian.
The resulting lat. is $35^{\circ}24'N$.

North, on West. bdy. sec. 6.

- Over mts., broken, or rolling land.
- 1.00 Wash, 200 lks. wide, course SW.
4.00 Enter rolling land, asc. grad. 20.
6.50 Top, brs. SW. & NE., desc.
10.00 Foot of slope, brs. NE. & SW.
19.80 Wash, 20 lks. wide, course SW.
Ascend.
- 27.00 Top, brs. NE. & SW., desc.
30.00 Wash, 50 lks. wide, course SW., foot of slope.
36.90 Wash, 10 lks. wide, course SW.
40.00 Find $\frac{1}{4}$ sec. cor. 70 lks. W. of line, which is a sandstone
12x6x6 ins. above ground, marked and witnessed as
described by the Surveyor General.
True course and dist. of this $\frac{1}{2}$ mile is $N.1^{\circ}W$. 40.01 chs.
I set over this $\frac{1}{4}$ sec. cor., and run North, from cor.
- 36.00 Wash, 50 lks. wide, course W.
37.00 Leave valley, asc. steep S. slope of granite hill
38.70 Find old cor. of Tps. 23 & 24 N., Rs. 13 & 14 W., at point
149 lks. E. of line, which is a malapais stone, in
mound of stone, marked and witnessed as described by the
Surveyor General.
True course and dist. of this $\frac{1}{2}$ mile is $N.2^{\circ}13'E$. 38.73 chs.
Land, rolling, broken, mts.
Soil, 3rd rate, stony, gravelly.
Scattering mesquite, tesseta, cacti. Fair grass.

Oct. 9, 1910.

re-

Note: This Tp. cor. was established Oct. 11, as hereinafter
described.

4. Retracement of West Boundary of T. 23 N., R. 13 W.

Chains.

Oct. 1, 1910.

At 8h a.m., l.m.t., at the cor. of secs. 19, 24, 25 & 30,
I set off $2^{\circ}59'S$. on the decl. arc, and $35^{\circ}22'N$. on the
lat. arc, and determine a true meridian with the solar.
Thence I run,

South, on West bdy. sec. 30.

Over broken, or heavily rolling land, asc.

11.00 Top, 250 ft. high, brs. NW. & SE., desc. prec.

14.50 Foot, brs. NW. & SE. desc. grad.

20.10 Wash, 10 lks. wide, course NE.

39.95 Old road, brs. E. & W. asc.

40.30 Find $\frac{1}{4}$ sec. cor., 5 lks. E. of line, which is a malpais
stone 8x6x4 ins. above ground, marked and witnessed
as described by the surveyor General.

I continue my measurement and alinement, South,

50.30 Top of ridge, brs. NE. & SW., desc.

52.00 Foot, brs. NE. & SW., enter wash, course NE.

55.50 Leave wash, course NE., asc.

68.00 Top of SW. point of ridge, brs. NE. & SW., desc.

75.00 Wash, 250 lks. wide, course NE.

80.40 Find cor. of secs. 25, 30, 31 & 36, 10 lks. E. of line,
which is a granite stone 10x10x6 ins. above ground,
marked and witnessed as described by the Surveyor General.True course and dist. of this mile is $S.0^{\circ}4'E$., 80.40 chs.

Land, rolling, mts.

Soil, 3rd rate, gravelly, stony.

Scattering mesquite, tesseta, greasewood, cacti, fair
grass in places.

South, on West bdy. sec. 31.

Over broken rolling land, , desc. grad.

19.75 Wash, 50 lks. wide, course NE.

35.00 Wash, 20 lks. wide, course NE., foot of slope, asc.

40.04 Find $\frac{1}{4}$ sec. cor. $4\frac{1}{2}$ lks. W. of line, which is a malpais
stone 10x4x6 ins. above ground, marked and witnessed as
described by the Surveyor General.

50.00 Ravine, course NE., asc. steep.

56.00 Top of spur, brs. E. & W., near E. end, desc.

76.00 Wash, 20 lks. wide, course NE.

79.80 Same wash, course NW.

80.08 Find old cor. of Tps. 22 & 23 N., Rs. 13 & 14 W., 9 lks.

W. of line, which is a cedar tree, 8 ins. in diam.,

marked and witnessed as described by the Surveyor Gen.

True course and dist. of this mile is $S.0^{\circ}4'W$., 80.08 chs.

Land, rolling, mts.

Soil, 3rd rate, gravelly, stony.

Scattering cedar, palonegro, cacti. Good grass.

Oct. 1, 1910.

Note -, all the corners on this line were afterwards
changed so as to refer to T. 23 N., R. 13 W., only.

Chains.

General Description.

The South Boundary of this Tp. runs over a very rough, mountainous land, covered in the central portion with a dense growth of cedar and pinon. The line crosses the Peacock Mountains at an elevation of about 5,200 ft. above sea-level. This range rises higher to the South, and there is some cedar and pinon timber in the higher portions of the range. Some water is found in several small springs and seeps in the rougher canyons.

The North Boundary of this Tp. runs across a smooth, rolling country, North of the Peacock mountains. The land in the lower portion, along the Truxton wash, is a fertile sandy loam, and could be cultivated. There is no water or timber on the line.

The West Boundary of T. 23 N., R. 13 W., as retraced by me, runs over a broken, or rolling country, rough in the Northern portion, and smoother in the South portion. All of these old corners found on this line, were in good state of preservation as the survey was comparatively recent. The land throughout this line is fairly good grazing land. There is no water or timber on this line.

Boundaries of T. 23 N., R. 14 W.
Latitudes, departures, and closing errors.

Line Designated.	True bearing.	Distance	Latitudes.		Departures.	
			N.	S.	E.	W.
		Chs.	Chs.	Chs.	Chs.	Chs.
South Boundary	West, ---	445.90	---	---	---	445.90
West Boundary	North, ---	480.00	480.00	---	---	---
North Boundary	East, ---	445.60	---	---	445.60	---
W.bdy. T. 23 N. R. 13 W.	S. 2° 13' W.	29.67	---	29.65	---	1.15
	S. 1° 0' E.	40.01	---	40.00	.70	---
	S. 0° 10' E.	80.70	---	80.70	.24	---
	S. 0° 15' E.	80.20	---	80.20	.35	---
	S. 0° 5' E.	79.80	---	79.80	.12	---
	S. 0° 4' E.	80.40	---	80.40	.09	---
	S. 0° 4' W.	80.08	---	80.08	---	.09
On East Bdy. Convergency,	South, ---	9.60	---	9.60	---	---
					.48	
		Totals, -	480.00	480.43	447.58	447.14
				480.00	447.14	
	Error in lat.,			.43		
	Error in dep.,				.44	

Joseph Wright
U. S. Surveyor.

Retracement of South Boundary of T. 24 N., R. 13 W.

Chains. Oct. 11, 1910.
 Before beginning the survey of T. 24 N., R. 13 W., I examine and test the line of the south boundary of this Tp., and find ~~that~~ the alinement and measurement on this line very irregular and out of allowable limits. Therefore, it becomes necessary to determine the true distance and alinement of this line before surveying T. 24 N., R. 13 W.
 The original cor. of Tps. 23 & 24 N., Rs. 13 & 14 W. is a malapais stone marked and witnessed as described by the Surveyor General. This cor. being in somewhat dilapidated condition, I destroy it and in the original position of the old corner, I
 Set an iron post 3 ft. long 3 ins. in diam. 24 ins. in the ground for cor. of Tps. 23 & 24 N., Rs. 13 & 14 W., marked on brass cap,
 T. 24 N. in N.
 R. 13 W. in E.,
 T. 23 N. in S., and
 R. 14 W. in W. halves, and
 S. 31 in NE.,
 S. 6 in SE.,
 S. 1 in SW., and
 S. 36 in NW. quadrants,
 raise a mound of stone 4 ft. base 2 ft. high S. of cor.
 Knowing from recent tests that my instrument is in accurate adjustment, at this corner,
 At 9h a.m., l.m.t. I set off 6° 50½' S. on the decl. arc, and 35° 25' N. on the lat. arc, and determine a true meridian with the solar.
 Thence I retrace
 East, bet. secs. 6 & 31.
 Over very rough broken, stony mts. land, asc.
 7.00 Top of spur, brs. S. & N., desc. prec.
 9.00 Asc.
 11.50 Top of spur, brs. S. & N., desc. prec.
 13.00 Gulch 50 lks. wide, course S., asc. prec.
 20.00 Top of spur, brs. S. & N., desc.
 26.50 Gulch 25 lks. wide, course SSE. asc.
 29.00 Top of spur, brs. S. & N. desc.
 32.00 Gulch, 50 lks. wide, course SSW., asc.
 37.00 The ¼ sec. cor. brs. N. 130 lks. dist., which is a granite stone in place, marked and witnessed as described by the Surveyor General.
 The true course and distance of this ½ mile is N. 37° 14' E. 37.04 chs.
 From this ¼ sec. cor., I run,
 East,
 11.00 Top of spur, brs. ESE. & WNW.
 13.00 Desc.
 15.00 Gulch 10 lks. wide, course SE. asc.
 23.00 Desc. prec.
 25.50 Gulch 30 lks. wide, course S.
 30.00 Head of gulch, course WSW.
 40.35 Cor. of secs. 5, 6, 31 & 32, on line, which is a granite stone 12x6x10 ins. above ground, marked and witnessed as described by the Surveyor General.
 Land, rough, mountainous.
 Soil, stony, barren, 4th rate.
 No timber.
 Undergrowth, scattering palonegro, ocotillo & other cacti.
 At this cor. at noon, I set off 6° 54' S. on the dec. arc and observe the sun on the meridian.
 The resulting latitude is 35° 25' N.

8. Retracement of the South Boundary of T. 24 N., R. 13 W.

Chains.

East, bet. secs. 5 & 32.
 Over very rough mts. land, asc. prec. W. slope.
 11.00 Top of W. rim of broken malapais mesa, 1000 ft. above valley to the West., elevation about 4500 ft. above sea-level. Enter dense cedar, brs. N. & S.
 40.00 The $\frac{1}{4}$ sec. cor. brs. N. 60 lks. dist., which is a malapais stone 12x8x12 ins. above ground, marked and witnessed as described by the Surveyor General.
 True course of this $\frac{1}{2}$ mile is N. 89° 09' E. 40.00 chs.
 From this $\frac{1}{4}$ sec. cor. I run,
 East,
 2.60 Wash, 20 lks. wide, course NNE. asc. grad.
 6.50 Spur, brs. NE. & SW., desc.
 13.20 Wash, 20 lks. wide, course NE.
 18.00 Enter very stony malapais area, rough mesa.
 28.00 Leave cedar timber, brs. N. & S.
 34.50 Wash, 30 lks. wide, course NE.
 40.50 Cor. of secs. 4, 5, 32 & 33 brs. S. 60 lks. dist., which is a limestone 8x8x8 ins. above ground, marked and witnessed as described by the Surveyor General.
 True course and distance of this $\frac{1}{2}$ mile is S. 89° 09' E. 40.50 chs.

Land, mts. rough, broken.
 Soil, stony, 3rd rate.
 No timber.
 Undergrowth, cedar, palonegro, cacti.

From the above described corner I run,
 East, bet. secs. 4 & 33.
 Over stony mesa, desc. grad. Leave malapais district, brs. N. & S., enter barren granite ledges and boulders.
 13.00 Gulch 50 lks. wide; course NE.
 Leave granite, enter dense cedar, brs. NE. & SW.
 28.00 East rim of granite cliff; 100 ft. high, brs. NE. & SW., desc. abruptly 100 ft., and thence desc. prec. E. slope.
 35.00 Gulch 100 lks. wide, 50 ft. deep, course NNE.
 40.05 The $\frac{1}{4}$ sec. cor. brs. S. 30 lks. dist., which is a malapais stone 8x5x6 ins. above ground, marked and witnessed as described by the Surveyor General.
 I rebuild and reset this cor. in orig. position, as it is in a somewhat dilapidated condition.
 True course and dist. of this $\frac{1}{2}$ mile is S. 89° 34' E. 40.05 chs.
 From this cor. I run,
 East, continuing measurement.
 Desc. very rough NNE. slope.
 60.00 Leave dense cedar, brs. N. & S.
 67.50 Point of rocks 50 ft. high, desc. prec.
 72.00 Gulch 50 lks. wide, course NNE., asc. prec.
 80.10 The cor. of secs. 3, 4, 33 & 34, brs. S. 60 lks. dist., which is a malapais stone 14x6x10 ins. above ground marked and witnessed as described by the Surveyor General.
 True course and dist. of this $\frac{1}{2}$ mile is S. 89° 34' E. 40.05 chs.

Land, mts. broken.
 Soil, 3rd rate, stony.
 No timber.
 Undergrowth, scattering cedar, scrub oak.

Oct. 11, 1910.

Retracement of S. Bdy. T. 24 N., R. 13 W.

Chains.

Oct. 12, 1910.

At 8h a.m., l.m.t., at the cor. of secs. 3, 4, 33 & 34,
I set off $7^{\circ}12'S$ on the decl. arc, and $35^{\circ}25'N$ on the
lat. arc, and determine a true meridian with the solar,
Thence I run,

East, bet. secs. 3 & 34.

Over mts. land, asc. steep stony NW. slope.
through scattering cedar.

7.00 Top of high spur, brs. N. & S., desc.

17.50 Gulch, 50 lks. wide, course NNW., asc.

23.00 Ridge, brs. NNE. & SSW., desc.

35.00 Gulch 50 lks. wide, course N. leave cedar, asc.

40.10 The $\frac{1}{4}$ sec. cor. brs. S. 120 lks. dist., which is a
granite stone 12x3x8 ins. above ground, marked and
witnessed as described by the Surveyor General.

True course and dist. this $\frac{1}{2}$ mile is $S.88^{\circ}18'E.$, 40.12 chs.

From this cor. I run,

East,

1.50 Top of ridge, brs. NE. & SW. desc.

23.00 Gulch 50 lks. wide, course N.

35.00 Top of granite ridge, brs. N. & S., desc. steep.

40.00 Cor. of secs. 2, 3, 34 & 35, brs. S. 11 lks. dist. which is
a granite stone 3x3 ft. x 8 ins. above ground, marked
and witnessed as described by the Surveyor General.

True course and dist. this $\frac{1}{2}$ mile is $S.39^{\circ}51'E.$ 40.00 chs.

Land, mts. very rough and broken.

Soil, stony, 3rd & 4th rate.

No timber.

Undergrowth, scattering cedar, cacti.

East, bet. secs. 2 & 35.

Over mts. stony land, desc. steep. E. slope.

6.00 Postal Telegraph line, brs. N. $14^{\circ}W$ & S. $14^{\circ}E$.

Foot of slope, brs. N. & S.

7.10 Middle of single track of Atchison, Topeka and Santa Fe
railroad, brs. N. $14^{\circ}W$ & S. $14^{\circ}E$.

8.05 Western Union Telegraph line, brs. N. $14^{\circ}W$ & S. $14^{\circ}E$.

9.30 Road, brs. N. & S.

11.00 Truxton wash, 120 lks. wide, course SSE. dry.

Enter valley.

31.00 Wash 20 lks. wide, course SSE.

33.00 Wash 30 lks. wide, course S.

38.00 Wrights Canyon, wash, 150 lks. wide, course SSW., dry.

39.95 The $\frac{1}{4}$ sec. cor. brs. S. 100 lks. dist., which is a
malapais stone 12x3x10 ins. above ground, marked and
witnessed as described by the Surveyor General.

True course and dist. this $\frac{1}{2}$ mile is $S.88^{\circ}34'E.$ 39.96 chs.

From this cor.,

Crozier Station pump house, brs. N. $41^{\circ}35'W$, about 30 chs.

Water tank, Crozier station, brs. N. $43^{\circ}W$.

S.W. cor. of Wm. Aikens house, brs. N. $48^{\circ}10'W$, about 20 chs.

From this cor. I run

East,

5.00 Leave valley, brs. NE. & SW., asc. cottonwood cliffs.

10.00 Enter scattering cedar and pinon, brs. NE. & SW.,

asc. steep NW. slope, over very rough granite boulders.

40.70 Cor. of secs. 1, 2, 35 & 36, brs. N. 42 lks. dist., which is

a granite stone in place, 2x2 ft. & 1 ft. above ground,

marked and witnessed as described by the Surveyor General.

True course and dist. this $\frac{1}{2}$ mile is $N.39^{\circ}26'E.$ 40.70 chs.

Land, mts. broken.

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

No timber.

Undergrowth, scattering cedar, some pinon, cacti.

At this cor. at noon, I set off $7^{\circ}16'S$ on the

declination arc and observe the sun on the meridian.

The resulting latitude is $35^{\circ}25'N$.

Chains.

From the cor. of secs. 1, 2, 35 & 36, as described, I run, East, bet. secs. 1 & 36.
 Over mts. land, asc. prec. NW. slope.

1.50 Gulch, 20 lks. wide, course NW. near head.

5.00 Top, 900 ft. above valley, brs. NE. & SW., thence over stony mesa, through scattering cedar.

33.50 E. rim of mesa, brs. N. & S., desc. prec.

40.32 The $\frac{1}{4}$ sec. cor. brs. S. 36 lks. dist., which is a malapais stone 10x3x8 ins. above ground, marked and witnessed as described by the Surveyor General.
 The true course and dist. this $\frac{1}{2}$ mile is S. 89° 29' E. 40.32 chs.
 This cor. being in a dilapidated condition, I rebuild same.
 From this cor. I run, East,

1.00 Gulch 50 lks. wide, course N., asc. grad.

24.00 Top of granite ledge, brs. NE. & SW., desc.

26.00 Gulch 150 lks. wide, course NNE., asc.

30.00 Ridge, brs. NE. & SW. desc. over barren granite boulders.

40.13 Cor. of Tps. 23 & 24 N., Rs. 12 & 13 W. brs. N. 96 lks. dist., which is a pinon tree, now 10 ins. diam., marked and witnessed as described by the Surveyor General.
 True course and dist. this $\frac{1}{2}$ mile is N. 83° 33' E. 40.14 chs.
 Land, mts. very rough and stony.
 Soil, 2nd, 3rd & 4th rate, stony.
 No timber.
 Undergrowth, cedar, pinon, scrub oak.

Oct. 12, 1910.

General Description.

The South Boundary of T. 24 N., R. 13 W. runs over a very rough broken country, the land in general being covered with malapais or granite stones, and boulders.

The old corners as found by me on this line were in a good state of preservation, but the distance and measurement is very irregular.

There is some cedar timber along this line in the higher portions of the country traversed.

No Water noted on this line.

Jesse B. Wright
 U.S. Surveyor.

BOUNDARY RE-SURVEYS.

Through Tp. 25 North, between Rs. 15 & 16 West.

11.

Chains.

Survey commenced Nov. 14, 1910, and executed with a W. & L. E. Gurley light mountain transit, special make, unnumbered with Burt's patent solar attachment. The horizontal limb of the instrument is provided with two double verniers placed opposite to each other and each reading to 1' of arc, which is also the least reading of the verniers of the latitude and declination arcs. I examine and test carefully all the adjustments of the transit and solar attachment, and finding same correct; then, in order to test the solar apparatus, by comparing the results of observations on the sun, made during p. m. and a.m. hours, respectively, with a true meridian as determined by observation of Polaris, I proceed as follows: At noon on this date, at the Std. cor. of Tps. 25 N., , Rs. 15 & 16 W. as recently re-established by me and heretofore described, in Book B.; latitude, $35^{\circ}30'34''$ N.; Long. $113^{\circ}55'55''$ W., by calculation, I set up my instrument and attempt to observe the latitude of my station as a check and test of my solar, but the weather being cloudy and rainy, I am unable to observe the latitude. At this cor. at 4h. p.m., l.m.t., I am able to make an observation for meridian with my solar, therefore, I set off $18^{\circ}9\frac{1}{2}'$ S. on the decl. arc, and $35^{\circ}30\frac{1}{2}'$ N. on the lat. arc, and determine a meridian with the solar, and make a point in the meridian thus determined by a tack in a stake driven firmly in the ground 8 chs. N. of my Station.

Nov. 14, 1910.

Nov. 15, 1910.

At 3h 51m a.m., l.m.t., I observe Polaris at Western Elongation in accordance with instructions in the manual, and mark the line thus determined by a tack in a stake driven firmly in the ground 5 chs. N. of my station. At 7h a.m., l.m.t., I set off the azimuth of Polaris, $1^{\circ}26'$ to the East, and mark the true meridian thus determined by a tack in the stake driven in the ground 8 chs. N. of my station, which point falls .40 ins. E. of the line as determined by the solar on preceding evening. At 8h a.m., l.m.t., I set off $18^{\circ}19\frac{1}{2}'$ S. on the decl. arc, and $35^{\circ}30\frac{1}{2}'$ N. on the lat. arc, and determine a meridian with the solar, and mark the line thus determined by a tack in the stake driven in the ground 8 chs. N. of my station, which point falls .20 ins. E. of the line as determined by observation of Polaris. The solar apparatus, by a.m. & p.m. observations, defines positions for meridians, about 12" W., and 6" E., respectively of the meridian as determined by observation of Polaris; therefore I conclude that the instrument is in satisfactory adjustment. The magnetic bearing of the true meridian at 8h a.m. is N. $15^{\circ}20'$ W.; the angle thus determined gives the magnetic declination as $15^{\circ}20'$ E. From the corner above described, I run North, for a distance of three miles, and make diligent search for corners at intervals of 40.00 and 80.00 chs. Finding no trace of any corners whatever on this line, I deem it absolutely necessary to re-survey same, therefore I return to the Standard cor. of Tps. 25 N., Rs. 15 & 16 W., and run thence,

12. Resurvey through Tp. 25 North, between Rs. 15 & 16 West.

Chains.

- North, bet. secs. 31 & 36.
Over gently rolling, sandy plain, scattering bunch grass.
- 40.00 Set an iron post 3 ft. long 1 in. diam. 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap,
 $\frac{1}{4}$ S. 31 in W., and
S. 36 in E. half,
dig pits 13x13x12 ins. N. & S. of cor. 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high W. of cor.
- 50.00 Land slopes gently to NW., enter scattering sage brush, good thick bunch grass.
- 80.00 Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of secs. 25, 30, 31 & 36, marked on brass cap,
T. 25 N. in N. half,
R. 16 W. S. 25 in NW.,
R. 15 W. S. 30 in NE.,
S. 31 in SE., and
S. 36 in SW. quadrants,
dig pits 13x13x12 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, gently rolling.
Soil, 2nd rate, loose sandy.
No timber.
Undergrowth, scattering sage brush. Good bunch grass.

- North, bet. secs. 25 & 30.
Over gently rolling land, slopes to NW.
- 40.00 Set an iron post 3 ft. long 1 in. in diam. 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap,
 $\frac{1}{4}$ S. 25 in W., and
S. 30 in E. half,
dig pits 13x13x12 ins. N. & S. of cor. 3 ft. dist., raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high W. of cor.
- 50.00 Sand dunes, extending E. & W.
- 80.00 Set an iron post 3 ft. long 3 ins. in diam. 24 ins. in the ground for cor. of secs. 19, 24, 25 & 30, marked on brass cap,
T. 25 N. in N. half,
R. 16 W. S. 24 in NW.,
R. 15 W. S. 19 in NE.,
S. 30 in SE., and
S. 25 in SW. quadrants, and
dig pits 13x13x12 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, gently rolling valley.
Soil, 2nd rate, sandy, loose.
No timber in this valley.
Undergrowth, scattering sage, fair grass.

- North, bet. secs. 19 & 24.
Across sand dunes, extending E. & W. scattering bunch grass.
- 22.34 Wash, 10 lks. wide, course W. Leave sand dunes.
- 32.00 Enter dense bunch grass and sage brush.
- 40.00 Set an iron post 3 ft. long 1 in. in dia. 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap,
 $\frac{1}{4}$ S. 24 in W., and
S. 19 in E. half,
dig pits 13x13x12 ins. N. & S. of cor. 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base $1\frac{1}{2}$ ft. high W. of cor.,
- 47.00 Find old stake with very faint signs of marking, lying on ground near line. Enter small playas, scattering bunch grass, soil, loose sandy, with some clay underlying.
- 80.00 Set an iron post 3 ft. long 3 ins. in diam. 24 ins. in the ground for cor. of secs. 13, 13, 19 & 24, marked on brass cap,

Chains.

T. 25 N. in N. half,
R. 16 W. S. 13 in NW.,
R. 15 W. S. 19 in NE.,
S. 19 in SE., and
S. 24 in SW. quadrants, and

dig pits 18x18x12 ins. in each sec. 5½ ft. dist., and
raise a mound of earth 3½ ft. base, 1½ ft. high W. of cor.
No bearings available.

Land, level, gently rolling valley.

Soil, 2nd rate, sandy.

No timber.

Fair bunch grass, and scattering sage brush.

At this cor. at noon,, I set off 13°24' S. on the
decl. arc, and observe the sun on the meridian.

The resulting lat. is 35° 33' N.

North, bet. secs. 13 & 13.

Over gently rolling sandy plain, scattering bunch grass,
drains to NE.

40.00 Set an iron post 3 ft. long 1 in. in diam. 26 ins. in
the ground for ¼ sec. cor., marked on brass cap,
¼ S. 13 in W., and

S. 13 in E. half, and

dig pits 18x18x12 ins. N. & S. of cor. 3 ft. dist. and
raise a mound of earth 3½ ft. base, 1½ ft. high W. of cor.

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

T. 25 N. in N. half,

R. 16 W. S. 12 in NW.,

R. 15 W. S. 7 in NE.,

S. 13 in SE., and

S. 13 in SW. quadrants, and

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.

Land, level, gently rolling.

Soil, 2nd rate, very loose and sandy.

Scattering sage and fair bunch grass in places.

North, bet. secs. 7 & 12.

Over gently rolling sandy plain, drains to NE., small
playas, subject to everflow from floods of Truxton Wash.
Dense bunch grass and sage brush, in places.

40.00 Set an iron post 3 ft. long 1 in. in diam. 26 ins. in
the ground for ¼ sec. cor., marked on brass cap,
¼ S. 12 in W. and

S. 7 in E. half, and

dig pits, 18x18x12 ins. N. & S. of cor. 3 ft. dist., and
raise a mound of earth 3½ ft. base, 1½ ft. high W. of Cor.

60.00 Leave playas and sage brush.

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

T. 25 N. in N. half,

R. 16 W. S. 1 in NW.,

R. 15 W. S. 6 in NE.,

S. 7 in SE., and

S. 12 in SW. quadrants,

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.

Land, level.

Soil, 2nd rate, sandy.

Scattering sage, fair grazing.

14. Resurvey through T. 25 N., bet. Rs. 15 & 16 W.

Chains.

North, bet. secs. 1 & 6.
 Over level valley, scattering sage brush, fair bunch grass.
 40.00 Set an iron post 3 ft. long 1 in. in diam. 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S. 1 in W., and S. 6 in E. half, dig pits 18x13x12 ins. N. & S. of cor. 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base 2 ft. high W. of cor.
 80.00 Set an iron post 3 ft. long 3 ins. in diam. 24 ins. in the ground for cor. of Tps. 25 & 26 N., Rs. 15 & 16 W., marked on brass cap, T. 26 N. in N., R. 15 W. in E., T. 25 N. in S., and R. 16 W. in W. half, and S. 36 in NW., S. 31 in NE., S. 6 in SE., and S. 1 in SW. quadrants, dig pits 24x24x12 ins., on each line, N., E., & W., 4 ft. & S. of cor. 3 ft. dist., and raise a mound of earth 5 ft. base, $2\frac{1}{2}$ ft. high S. of cor.
 Land, level.
 Soil, 2nd rate, sandy, loose, loam, underlaid with clay.
 Undergrowth, scattering sage, brush, fair grazing.
 Nov. 15, 1910.

General description.

This line runs over a practically level plain, covered with a fair growth of bunch grass, and sage brush. The soil is in general a loose sandy loam, underlaid with some clay in places, and also some lime gravel at greater depth of 3 or 4 ft.

Jesse Wright
 U.S. Surveyor

Boundaries of Township 25 N., R. 14 W.
 Latitudes, departures, and closing errors.

Line designated.	True Bearing.	Distance.	Latitudes N.	Departures S. E. W.
6th. St. Par. N.	West,	400.00		400.00
Frac. W. Bdy. Subs.	North,	240.00	240.00	
"	S. 89° 57' E.	79.80	.07	79.80
"	S. 89° 56' E.	80.00	.09	80.00
"	S. 89° 55' E.	79.94	.11	79.94
"	East,	80.01		80.01
"	S. 0° 1' E.	160.00	160.00	.05
"	East,	80.08		80.08
"	S. 0° 1' E.	80.00	80.00	.02
Convergency,				.19
Totals,			240.00	240.27 400.09 400.00
			240.00	400.00
Error in lat.			.27	.09
				Error in dep.

Through T. 25 N., between Rs. 14 and 15 West.

15,

Chains

Nov. 16, 1910

At 8h a.m., l.m.t., at the Standard cor. of Tps. 25 N., Rs. 14 & 15 W., as recently re-established by me and heretofore described; in Book B, I set off $18^{\circ}35'$ S. on the decl. arc, and $35^{\circ}30\frac{1}{2}'$ N. on the lat. arc, and determine a true meridian with the solar, which meridian, I find agrees with the true meridian established by Polaris observation at this point by me on Oct. 26, 1910.

From the above described cor., I run, as per instructions, North, on range line, bet. secs. 31 & 36, Over level plain.

- 1.50 Enter broad sand wash, Truxton Wash, begins to spread out at this point. course NW.
- 23.00 Leave wash, course NW., thence over grassy flat.
- 40.00 Set an iron post 3 ft. long 1 in. in diam. 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S. 36 in W., and S. 31 in E. half, dig pits 18x13x12 ins. N. & S. of cor. 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base $1\frac{1}{2}$ ft. high W. of cor. Enter barren clayey, sandy flat. brs. NW. & SE.
- 80.00 Set an iron post 3 ft. long 3 ins. in diam. 24 ins. in the ground for cor. of secs. 25, 30, 31 & 36, marked on brass cap, T. 25 N., in N. half, R. 15 W. S. 25 in NW., R. 14 W. S. 30 in NE., S. 31 in SE., and S. 36 in SW. quadrants, dig pits 18x13x12 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, 2nd rate, sandy, clayey. No timber on this line. Undergrowth, scattering sage brush.

North, bet. secs. 25 & 30.

Over level flat, scant gramma grass.

- 12.60 Leave clayey flat, enter grassy sandy loam.
- 20.10 Dim road, brs. NNW. & SSE. Leave flat asc. gently.
- 25.00 Top of k noll, brs. E. & W.
- 40.00 Set an iron post 3 ft. long 1 in. in diam. 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S. 25 in W., and S. 30 in E. half, dig pits 18x13x12 ins. N. & S. of cor. 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high W. of cor.
- 48.75 Old road, brs. NW. & SE.
- 80.00 Set an iron post 3 ft. long 3 ins. in diam. 24 ins. in the ground for cor. of secs. 19, 24, 25 & 30, marked on brass cap, T. 25 N. in N. half, R. 15 W. S. 24 in NW., R. 14 W. S. 19 in NE., S. 30 in SE., and S. 25 in SW. quadrants, and dig pits 13x13x12 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, gently rolling, undulating. Soil, sandy, loamy, some clay 2nd rate. No timber. Undergrowth, scattering sage, few mesquite, fair grass. scattering greasewood and cacti.

Chains.

North, bet. secs. 19 & 24.
Over gently rolling land, asc. gently.
land drains to SW., low dense sage brush, native grass.

40.00 Set an iron post 3 ft. long 1 in. in diam. 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap,
 $\frac{1}{4}$ S. 24 in W., and
S. 19 in E. half,
dig pits 18x13x12 ins. N. & S. of cor. 3 ft. dist.,
raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high W. of cor.

78.95 Wash 20 lks. wide, course WSW.

80.00 Set an iron post 3 ft. long 3 ins. in diam. 24 ins. in the ground for cor. of secs. 13, 13, 19 & 24,
marked on brass cap;
T. 25 N., in N. half,
R. 15 W. S. 13 in NW.,
R. 14 W. S. 13 in NE.,
S. 19 in SE., and
S. 24 in SW. quadrants,
raise a mound of stone 2 ft. base $1\frac{1}{2}$ ft. high, W. of cor.
No bearings available. Pits impracticable.

Land, rolling, level.
Soil, 2nd rate, sandy, loamy, some gravel.
Undergrowth, scattering greasewood, mesquite. dense low sage brush, fair grass.

North, bet. secs. 13 & 13.
Over gently rolling land, drains SW., asc. grad.
low dense sage brush, fair native grass.

32.00 Foot of steep SSW. point, leave valley, asc. steep.

38.00 Top of point, brs. S. & N. and desc. grad. on same.

40.00 Set an iron post 3 ft. long 1 in. in diam. 20 ins. in the ground to bed rock, for $\frac{1}{4}$ sec. cor., in mound of stone, marked on brass cap,
 $\frac{1}{4}$ S. 13 in W. and
S. 13 in E. half, and
raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high W. of cor.

50.00 Asc. steep.

55.10 Top of spur, brs. W. & E., ends 6 chs. W., desc. steep NW. slope.

63.00 Foot of slope, brs. E. & W., thence across stony flat.

77.55 Stony wash 50 lks. wide, course WSW.

80.00 Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of secs. 7, 12, 13 & 18,
marked on brass cap,
T. 25 N., in N. half,
R. 15 W. S. 12 in NW.,
R. 14 W. S. 7 in NE.,
S. 13 in SE., and
S. 13 in SW. quadrants,
Dig pits 18x13x12 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, mts.
Soil, 2nd & 3rd rate, gravelly, stony.
No timber.
Undergrowth, sage brush, cacti. Fair grazing.
At this cor. at noon, . . . , I set off $18^{\circ}39'$ S. on the decl. arc, and observe the sun on the meridian.
The resulting lat. is $35^{\circ}34'$ N.

Chains.

- North, bet. secs. 7 & 12.
Over Rolling, stony land, dense low sage brush, scattering mesquite and cacti. Fair native grass, asc. grad.
- 30.50 Main stony wash, 250 lks. wide, course WSW.
- 40.00 Foot of slope, brs. ENE. & WSW.
Set an iron post 3 ft. long 1 in. in diam. 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap,
 $\frac{1}{4}$ S. 12 in W., and
S. 7 in E. half, and
raise a mound of stone 2 ft. base $1\frac{1}{2}$ ft. high W. of cor.
Asc. steep, stony S. slope.
- 58.96 Top of E. end of butte on ridge, brs. W. & E., Desc. N. slope.
- 65.30 Gulch 30 lks. wide, course NW., near head., thence along W. slope of spur.
- 76.00 Point of spur, brs. NW. & SE., desc.
- 80.00 Set an iron post 3 ft. long 3 in. in diam. 24 ins. in the ground for cor. of secs. 1, 6, 7 & 12, marked on brass cap,
T. 25 N., in N. half,
R. 15 W. S. 1 in NW.,
R. 14 W. S. 6 in NE.,
S. 7 in SE., and
S. 12 in SW. quadrants,
raise a mound of stone 2 ft. base $1\frac{1}{2}$ ft. high W. of cor.
No bearings available. Pits impracticable.
-
- North, bet. secs. 1 & 6.
Over mts. stony land, desc.
- 3.00 Stony wash, 30 lks. wide, course WNW. foot of slope.
- 22.75 Stony wash, foot of slope, course WSW. asc.
- 37.00 Top of flat spur, brs. SW. & NE., desc. grad.
- 40.00 Set an iron post 3 ft. long 1 in. in diam. 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap,
 $\frac{1}{4}$ S. 1 in W., and
S. 6 in E. half,
raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high W. of cor.
- 57.25 Gulch, 150 lks. wide, course SW. asc. grad.
- 60.00 Foot of slope, brs. E. & W., asc. steep, SW. slope.
- 80.00 Set an iron post 3 ft. long 3 ins. in diam., 10 ins. in the ground to bed-rock, in mound of stone for cor. of Tps. 25 & 26 N., Rs. 14 & 15 W., marked on brass cap;
T. 26 N. in N.,
R. 14 W. in E.,
T. 25 N. in S., and
R. 15 W. in W. half, and
S. 36 in NW.,
S. 31 in NE.,
S. 6 in SE., and
S. 1 in SW. quadrants, and
raise a mound of stone 4 ft. base 3 ft. high S. of cor.
No bearings available. Pits impracticable.
- Land, mts.
Soil, 2nd & 3rd rate, gravelly, stony.
Undergrowth, scattering sage brush, mesquite & cacti.
Fair grazing. Nov. 16, 1910.

General Description.

This line runs over a sandy level plain for the south 2 miles, then ascends grad. over a gravelly, grassy valley and for the last 2 miles to the north runs over a stony, gravelly SW. slope of granite formation. There is no water on the line.

In the south part the land would produce well if irrigated.

There is no timber and but little undergrowth on the line. The country to the E. & W. is mostly covered with a fair growth of native grass.

Chains.

Nov. 17, 1911.
 At 8h a.m., 1.m.t., at the cor. of Tps. 25 & 26 N., Rs. 14 & 15 W., as established by me, and heretofore described, I Set off 13°50' N. on the decl. arc, and 35°36' N. on the lat. arc, and determine a true meridian with the solar, thence I run,
 West, on a random line, on North bdy. of Tp. 25, N., R. 15 W., At 5 miles, 79.35 chs., I intersect the West Bdy. of Tp. at a point 31 lks. S. of the cor. of Tps. 25 & 26 N., Rs. 15 & 16 W., heretofore described; whence I run, S. 89°53' E., on a true line, bet. secs. 5 & 31.
 Over level valley, through scattering sage brush.
 39.35 Set an iron post 3 ft. long 1 in. in diam. 26 ins. in the ground for 1/4 sec. cor., marked on brass cap,
 1/4 S. 31 in N. and
 S. 6 in S. half,
 dig pits 18x18x12 ins. E. & W. of cor., 3 ft. dist., and raise a mound of earth 3 1/2 ft. base, 1 1/2 ft. high N. of cor.
 79.35 Set an iron post 3 ft. long 3 ins. in diam. 24 ins. in the ground for cor. of secs. 5, 6, 31 & 32,
 marked on brass cap,
 T. 26 N. in N.,
 T. 25 N. in S., and
 R. 15 W. in W. half, and
 S. 31 in NW., S. 32 in NE., S. 5 in SE., and S. 6 in SW., quadrants;
 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, level, undulating slightly, in places.
 Soil, loose sandy loam. 2nd rate.
 No Timber.
 Undergrowth, scattering sage brush, fair native grass.

S. 39°53' E., on a true line bet. secs. 5 & 32.
 Over gently undulating land, asc. gradually, through greasewood, thick native grass.

30.30 Wash, 30 lks. wide, course SW.
 Enter dense greasewood, brs. NW. & SE.
 40.00 Set an iron post 3 ft. long 1 in. in diam. 26 ins. in the ground for 1/4 sec. cor., marked on brass cap,
 1/4 S. 32 in N., and
 S. 5 in S. half,
 dig pits 18x18x12 ins. E. & W. of cor. 3 ft. dist., and raise a mound of earth 3 1/2 ft. base 1 1/2 ft. high N. of cor.
 44.00 Wash, 30 lks. wide, course WSW.
 60.35 Main road, Music mountain mine and Gold Basin to Hackberry, brs. N. & S.
 70.50 Wash, 20 lks. wide, course SW.
 80.00 Set an iron post 3 ft. long 3 ins. in diam. 24 ins. in the ground for cor. of secs. 4, 5, 32 & 33,
 marked on brass cap;
 T. 26 N. in N.,
 T. 25 N. in S., and
 R. 15 W. in W. half, and
 S. 32 in NW., S. 33 in NE., S. 4 in SE., and S. 5 in SW. quadrants;
 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, gently undulating.
 Soil, 2nd rate, sandy, gravelly.
 Undergrowth, greasewood, sage brush, cacti. Fair grazing.

Chains.

S. 39°59' E., on a true line bet. secs. 4 & 33.
Over gently rolling land, desc. grad., through scattering greasewood and sage brush, fair grass.

40.00 Set an iron post 3 ft. long 1 in. in diam. 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap;
 $\frac{1}{4}$ S. 33 in N., and
S. 4 in S. half,
dig pits 18x13x12 ins. E. & W. of cor. 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high N. of cor.

64.00 Wash 50 lks. wide, course SW.

76.10 Wash 30 lks. wide, course SW.,

80.00 Set an iron post 3 ft. long 3 ins. in diam. 24 ins. in the ground for cor. of secs. 3, 4, 33 & 34, marked on brass cap;
T. 26 N. in N.,
T. 25 N. in S., and
R. 15 W. in W. half, and
S. 33 in NW., S. 34 in NE., S. 3 in SE., and S. 4 in SW. quadrants;
dig pits 18x13x12 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, 2nd & 3rd rate, sandy, loamy, gravelly, loose.
Undergrowth, scattering greasewood, sage brush, cacti.
Fair grass in places.
At this cor. at noon, I set off 18°54' S. on the decl. arc, and observe the sun on the meridian.
The resulting lat. is 35° 36' N.

S. 39°58' E., on a true line bet. secs. 3 & 34.
Over rolling land, asc. grad., through scattering greasewood, mesquite, and cacti. fair grass.

35.00 A lone butte brs. S. about 15 chs. dist., covers about 40.00 acres of land.

40.00 Set an iron post 3 ft. long 1 in. in diam. 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap;
 $\frac{1}{4}$ S. 34 in N., and
S. 3 in S. half,
dig pits 18x13x12 ins. E. & W. of cor. 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high N. of cor.

44.00 Foot of main slope of mts. asc.

54.00 Top of SW. point of long spur, brs. SW. & NE., desc.

58.00 Foot of slope, brs. NE. & SW.

74.00 Asc. steep.

77.00 Top of granite spur, brs. SSW. & NNE., desc.

79.00 Foot of spur, brs. NE. & SW.

80.00 Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of secs. 2, 3, 34 & 35, marked on brass cap;
T. 26 N. in N.,
T. 25 N. in S., and
R. 15 W. in W. half, and
S. 34 in NW., S. 35 in NE., S. 2 in SE., and S. 3 in SW. quadrants, and
raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high W. of cor.
Land, rolling mts.
Soil, 2nd & 3rd rate, sandy, loamy, gravelly, stony.
Undergrowth, greasewood, sage brush, cacti. Fair grazing.

S. 39°58' E., on a true line, bet. secs. 2 & 35.
Over gently rolling land, asc. grad.

40.00 Set an iron post 3 ft. long 1 in. in diam. 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap;
 $\frac{1}{4}$ S. 35 in N., and
S. 2 in S. half, and
raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high N. of cor.

20. Resurvey Bet. Tps. 25 & 26 N., through R. 15 W.

Chains.

60.30 Wash 80 lks. wide, course SW.
 69.70 Wash 30 lks. wide, course SW.
 77.25 Wash 50 lks. wide, course SW., stony., asc.
 80.00 Set an iron post 3 ft. long 3 ins. in diam. 24 ins. in the ground for cor. of secs. 1, 2, 35 & 36, marked on brass cap;
 T. 26 N. in N.,
 T. 25 N. in S., and
 R. 15 W. in W. half, and
 S. 35 in NW., S. 36 in NE., S. 1 in SE., and S. 2 in SW. quadrants; and
 raise a mound of stone 2 ft. base, 1 1/2 ft. high W. of cor. Land, rolling.
 Soil, 2nd & 3rd rate, gravelly, stony.
 Undergrowth, scattering sage brush, greasewood, cacti.
 Good native grass.

S. 89° 59' E., on a true line, bet. secs. 1 & 36.
 Over mts. land, asc.

1.00 Foot of main slope, brs. NE. & SW., asc. steep.
 9.50 Top of butte on flat ridge, brs. NNE. & SSW., desc. grad.
 13.00 Gulch, near head, 50 lks. wide, course SSW., asc. prec.
 40.00 Set an iron post 3 ft. long, 1 in. in diam. 10 ins. in ground, on bed-rock, in mound of stone for 1/4 sec. cor., marked on brass cap,
 1/4 S. 36 in N., and
 S. 1 in S. half, and
 raise a mound of stone 2 ft. base, 1 1/2 ft. high N. of cor.
 46.00 Top of high, rocky spur, brs. SW. & NE., desc. prec. SE. slope.
 60.00 Gulch 30 lks. wide, 150 ft. deep, near head, course SSW. asc. prec. SW. slope.
 80.00 To cor. of Tps. 25 & 26 N., Rs. 14 & 15 W.
 Land, mts., rough.
 Soil, 3rd rate, very stony.
 Undergrowth, scattering cacti.

Nov. 17, 1910.

General Description.

This line runs over a smooth rolling plain for the first 2 miles on the west, thence leaves the valley, and the loose sandy loam, and ascends, the SW. slope of the Music Mountains, over granite gravel and stone. There is no water or timber on the line.

Boundaries of T. 25 N., R. 15 W.
 Latitudes, departures, and closing errors.

Line Designated.	True bearing.	Distance	Latitudes.		Departures.	
			N.	S.	E.	W.
		Chs.	Chs.	Chs.	Chs.	Chs.
6th Std. Par. N.	West,	480.00				480.00
West Boundary	North,	480.00	480.00	.....	.....	.....
North Boundary	S. 89° 53' E.,	479.35	.....	.31	479.35	.....
East Boundary	South,	480.00	.....	480.00	.....	.....
Convergency	.....	.....	.....	.....	.52	.....
	Totals, .....	.....	480.00	480.31	480.37	480.00
	Error in lat. ....	.....	.....	480.00	480.00	.....
	Error in dep. ....	.....	.....	.....	.37	.....

Jessie B. Wright
 U.S. Surveyor.

Resurvey of West Boundary of T. 25 N., R. 16 W.

Chains.

Nov. 13, 1910.
 At 8h a.m., l.m.t., at the Standard cor. of Tps. 25 N.,
 Rs. 16 & 17 W., as described in Book B.
 I set off 35°30½' N. on the lat. arc, and 19°4½' S. on the
 decl. arc, and determine a true meridian with the solar;
 thence I retrace, North, for a distance of 3 miles, and
 at intervals of 40.00 and 80.00 chs. I make diligent
 search for the old corners supposed to be set on this
 line. Failing to find any trace whatever of any corners,
 I therefore deem it absolutely necessary to re-survey
 this line,
 Therefore from the standard cor. above described, I run,
 North, bet. secs. 31 & 36.
 Over gently rolling land, through scattering cacti and
 sage brush, good native grass. land drains to NE.

28.90 Wash 120 lks. wide, course ENE.

40.00 Set an iron post 3 ft. long 1 in. in diam. 26 ins. in
 the ground for ¼ sec. cor., marked on brass cap;
 ¼ S. 36 in W., and
 S. 31 in E. half,
 dig pits 18x18x12 ins. N. & S. of cor., 3 ft. dist., and
 raise a mound of earth 3½ ft. base, 1½ ft. high W. of cor.

80.00 Set an iron post 3 ft. long 3 ins. in diam. 24 ins. in
 the ground for cor. of secs. 25, 30, 31 & 36, ~~mar~~
 marked on brass cap,
 T. 25 N. in N. half,
 R. 17 W. S. 25 in NW.,
 R. 16 W. S. 30 in NE.,
 S. 31 in SE., and
 S. 36 in SW. quadrants;
 dig pits 18x18x12 ins. in each sec. 5½ ft. dist., and
 raise a mound of earth 3½ ft. base, 1½ ft. high W. of cor.
 Land rolling, gently.
 Soil, 2nd & 3rd rate, sandy, gravelly, loose. dry.
 No timber on this line.
 Undergrowth, scattering sage brush, cacti, greasewood,
 good native grass.

North, bet. secs. 25 & 30 .
 Over gently undulating land, desc. grad. in valley.

13.00 Dim road, brs. NNE. & SSW.

20.00 Enter wash, 250 lks. wide, course NNE.

40.00 Point for ¼ sec. cor. falls in wash.

41.50 Leave wash, runs NNE.

42.00 Set an iron post 3 ft. long 1 in. in diam. 26 ins. in
 the ground for witness cor. to ¼ sec. cor.,
 marked on brass cap,
 W.C. ¼ in N. half,
 S. 30 in SE., and
 S. 25 in SW. quadrants;
 dig pits 18x18x12 ins. N. & S. of cor. 3 ft. dist., and
 raise a mound of stone covered with earth 4 ft. base, 2
 ft. high W. of cor. No bearings available.

53.00 Enter same wash as above, course NNW. Down wash.

80.00 Cor. point falls in W. edge of wash, course at this point,
 NNE.

85.00 Leave wash, runs NNE.

86.00 Set an iron post 3 ft. long 3 ins. in diam. 24 ins. in
 the ground for witness cor. to cor. of secs. 19, 24, 25 & 30,
 marked on brass cap;
 W.C. S. of centre,
 T. 25 N. in N. half,
 R. 17 W. S. 24 in NW.,
 R. 16 W. S. 19 in NE.,
 S. 30 in SE., and S. 25 in SW. quadrants,
 raise a mound of stone 2 ft. base, 1½ ft. high W. of cor.
 Land, gently rolling. Soil, 2nd rate, loose sandy, gravelly.
 Undergrwth, scattering sage brush, cacti. Good native grass.

22. Resurvey of West Boundary of T. 25 N., R. 16 W.

Chains. From true point for cor. of secs. 19, 24, 25 and 30, I run,
North, bet. secs. 19 & 24.
Over gently rolling land, descend gently, in valley,
coarse dense native grass, and scattering sage brush.
6.00 Set an iron post 3 ft. long 1 in. in diam. 26 ins. in
WITNESS CORNER
40.00 the ground for $\frac{1}{4}$ sec. cor., marked on brass cap,
 $\frac{1}{4}$ S. 24 in W. and
S. 19 in E. half,
dig pits 18x18x12 ins. N. & S. of cor. 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 an iron post 3 ft. long 3 ins. in diam. 24 ins. in
the ground for cor. of secs. 13, 18, 19 & 24,
marked on brass cap,
T. 25 N. in N. half,
R. 17 W. S. 13 in NW.,
R. 16 W. S. 13 in NE.,
S. 19 in SE., and
S. 24 in SW. quadrants;
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, gently rolling,
Soil, 2nd rate, sandy, loamy, gravelly, loose, dry.
Undergrowth, scattering sage brush, cacti. Good native
grass.
At this cor. at noon, I set off $19^{\circ} 8\frac{1}{2}'$ S. on the
decl: arc, and observe the sun on the meridian.
The resulting lat. is $35^{\circ} 33'$ N.

North, bet. secs. 13 & 18.
Over level valley, sparse grass, clayey soil, some loose
and sandy in places.
32.50 Wash 30 lks. wide, course NNW.
40.00 Set an iron post 3 ft. long 1 in. in diam. 26 ins. in
the ground for $\frac{1}{4}$ sec. cor. marked on brass cap,
 $\frac{1}{4}$ S. 13 in W. and
S. 18 in E. half,
dig pits 18x18x12 ins. N. & S. of cor. 3 ft. dist., and
raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high W. of cor.
41.25 Wash 40 lks. wide, course NW.
80.00 Set an iron post 3 ft. long 3 ins. in diam. 24 ins. in
the ground for cor. of secs. 7, 12, 13 & 18,
marked on brass cap ;
T. 25 N. in N. half,
R. 17 W. S. 12 in NW.,
R. 16 W. S. 7 in NE.,
S. 18 in SE., and
S. 13 in SW. quadrants;
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, level.
Soil, 2nd rate, sandy, clayey, moist in places.
Undergrowth, sparse native grass, scattering sage brush.

North, bet. secs. 7 & 12.
Over level valley, sparse grass, and scattering sage brush,
40.00 Set an iron post 3 ft. long 1 in. in diam. 26 ins. in
the ground for $\frac{1}{4}$ sec. cor., marked on brass cap,
 $\frac{1}{4}$ S. 12 in W., and
S. 7 in E. half,
dig pits 18x18x12 ins. N. & S. of cor. 3 ft. dist., and
raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high W. of cor.

Chains.

80.00 Set an iron post 3 ft. long 3 ins. in diam. 24 ins. in the ground for cor. of secs. 1, 6, 7 & 12, marked on brass cap,
 T. 25 N., in N. half,
 R. 17 W. S. 1 in NW.,
 R. 16 W. S. 6 in NE.,
 S. 7 in SE., and
 S. 13 in SW. quadrants;
 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.
 Land, level, gently undulating.
 Soil, 2nd rate, sandy, gravelly, clayey. moist., underlaid with calcareous gravel.

North, bet. secs. 1 & 6.

Over level valley, through scattering sage brush, scant native grass.

17.65 Wash 20 lks. wide, course NNW.

20.55 Wash 30 lks. WNW., truns NW. at 5 chs. to W.

40.00 Set an iron post 3 ft. long 1 ins. in diam. 24 ins. in the ground for ¼ sec. cor, marked on brass cap,
 ¼ S. 1 in W., and
 S. 6 in E. half;

dig pits 18x18x12 ins. N. & S. of cor. 3 ft. dist., and raise a mound of earth 4 ft. base, 1½ ft. high W. of cor.

43.20 Wash 30 lks. wide, course NW.

54.00 Wash 30 lks. wide, course NW.

80.00 Set an iron post 3 ft. long 3 ins. in diam. 24 ins. in the ground for cor. of Tps. 25 & 26 N., Rs. 16 & 17 W., marked on brass cap;

T. 26 N. in N.,

R. 16 W. in E.,

T. 25 N. in S., and

R. 17 W. in W. half, and

S. 36 in NW.,

S. 31 in NE.,

S. 6 in SE., and

S. 1 in SW. quadrants;

dig pits 24x24x12 ins., N., E., & W. of cor. 4 ft., and S. of cor. 8 ft. dist., and raise a mound of earth 5 ft. base, 2½ ft. high, S. of cor. from which,

Boarding house at Music Mtn. mine, brs. N. 65° 50' E.

Highest peak of Peacock Mts., brs. S. 42° 10' E.

Sharp high peak near S. end Carbat Range, brs. S. 23° 8' W.

Nov. 18, 1910.

General Description.

This line runs over a gently undulating or level valley covered with a growth of sparse bunch grass and sage brush. The soil is in general, a loose gravelly or sandy loam, with some clay, and moist in places, underlaid with a clayey calcareous conglomerate or gravel. There is no water or timber on this line.

Jesse Wright
 U.S. Surveyor.

24. Resurvey, Between Tps. 25 & 26 N., through R. 16 W.

Chains

Nov. 19, 1910.

At 8h a.m., l.m.t. at the cor. of Tps. 25 & 26 N., Rs. 15 & 16 W., as recently established by me, and heretofore described, I set off $19^{\circ}13\frac{1}{2}'$ S. on the decl. ar, and $35^{\circ}36'$ N. on the lat. arc, and determine a true meridian with the solar:

Thence I run,

West, on a random line, bet. Tps. 25 & 26 N., R. 16 W.

At 5 miles, 79.27 chs., I intersect the W. bdy. of T. 25 N., R. 16 W. at a point 55 lks. South of the cor. of Tps. 25 & 26 N., Rs. 16 & 17 W., heretofore described; thence S. $39^{\circ}56'$ E., on a true line, bet. Tps. 25 & 26 N., R. 16 W. between secs. 6 & 31.

Over level valley, sparse bunch grass and sage brush.

39.27 Set an iron post 3 ft. long 1 in. in diam. 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap,
 $\frac{1}{4}$ S. 31 in N., and
S. 6 in S. half,

dig pits 18x18x12 ins. E. & W. of cor., 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high N. of cor.

79.27 Set an iron post 3 ft. long 3 ins. in diam. 24 ins. in the ground for cor. of secs. 5, 6, 31 & 32, marked on brass cap,
T. 26 N., in N.,
T. 25 N. in S., and
R. 16 W. in W. half, and
S. 31 in NW., S. 32 in NE., S. 5 in SE., & S. 6 in SW. quadrants;

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.

No bearings available.

Land, level, slightly undulating.

Soil, 2nd rate, loose sandy loam. moist at slight depth.

No timber.

Undergrowth, scant sage brush and native grass.

S. $39^{\circ}56'$ E., bet. secs. 5 & 32.

Over level valley, scattering sage brush. Fair grass.

40.00 Set an iron post 3 ft. long 1 in. in diam. 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap,
 $\frac{1}{4}$ S. 32 in N., and
S. 5 in S. half,

dig pits 18x18x12 ins. E. & W. of cor. 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high N. of cor.

80.00 Set an iron post 3 ft. long 3 ins. in diam. 24 ins. in the ground for cor. of secs. 4, 5, 32 & 33, marked on brass cap,
T. 26 N. in N.,
T. 25 N. in S., and
R. 16 W. in W. half, and
S. 32 in NW., S. 33 in NE., S. 4 in SE., and S. 5 in SW. quadrants,

dig pits 18x18x12 ins. in each sec. $5\frac{1}{2}$ ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high W. of cor.

Land, level.

Soil, 2nd rate, loose sandy loam. moist.

Undergrowth, sage brush, weeds, good native grass.

Chains.

- S. 89° 56' E., bet. secs. 4 & 33.
Over level valley, through dense low sage brush, and coarse bunch grass.
- 40.00 Set an iron post 3 ft. long 1 in. in diam. 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap,
 $\frac{1}{4}$ S. 33 in N., and
S. 4 in S. half,
dig pits 13x13x12 ins. E. & W. of cor. 3 ft. dist., and
raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high W. of cor.
- 80.00 Set an iron post 3 ft. long 3 ins. in diam. 24 ins. in the ground for cor. of secs. 3, 4, 33 & 34,
marked on brass cap,
T. 26 N. in N.,
T. 25 N. in S., and
R. 16 W. in W. half, and
S. 33 in NW., S. 34 in NE., S. 3 in SE. and S. 4 in SW. quadrants;
dig pits 13x13x12 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, 2nd rate, loose sandy loam. moist
Undergrowth, sage brush, few cacti. Good native grass.
At this cor., at noon, I set off 19° 23' S. on the decl. arc, and observe the sun on the meridian.
The resulting lat. is 35° 36' N.
-
- S. 89° 56' E., bet. secs. 3 & 34.
Over level valley, scattering sage brush, and coarse, dense bunch grass.
- 40.00 Set an iron post 3 ft. long 1 in. in diam. 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap,
 $\frac{1}{4}$ S. 34 in N. and
S. 3 in S. half,
dig pits 13x13x12 ins. E. & W. of cor. 3 ft. dist., and
raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high N. of cor.
- 45.00 Old road, brs. S. 40° W. & N. 40° E.
- 80.00 Set an iron post 3 ft. long 3 ins. in diam. 24 ins. in the ground for cor. of secs. 2, 3, 34 & 35,
marked on brass cap,
T. 26 N. in N.,
T. 25 N. in S., and
R. 16 W. in W. half,
S. 34 in NW., S. 35 in NE., S. 2 in SE., and S. 3 in SW. quadrants, and
dig pits 13x13x12 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, slightly undulating.
Soil, loose sandy loam, 2nd rate.
Undergrowth, sage brush, good native coarse bunch grass.
-
- S. 89° 56' E., bet. secs. 2 & 35.
Over level valley, through dense low sage brush, and native grass.
- 40.00 Set an iron post 3 ft. long 1 in. in diam. 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap,
 $\frac{1}{4}$ S. 35 in N., and
S. 2 in S. half,
dig pits 13x13x12 ins. E. & W. of cor., 3 ft. dist., and
raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high N. of cor.
- 80.00 Set an iron post 3 ft. long 3 ins. in diam. 24 ins. in the ground for cor. of secs. 1, 2, 35 & 36,
marked on brass cap,
T. 26 N. in N.,
T. 25 N. in S., and
R. 16 W. in W. half,
S. 35 in NW., S. 36 in NE., S. 1 in SE., and S. 2 in SW. quadrants, dig pits 13x13x12 ins. in each sec. $5\frac{1}{2}$ ft. dist. & raise a mound of earth 4 ft. base, 2 ft. high W. of cor.

26. Resurvey Bet. Tps. 25 & 26 N., through R. 16 W.

Chains

Land, level, slightly undulating.
Soil, 2nd rate, loose sandy loam.
Undergrowth, sage brush, good grass.

S. 89°56' E., bet. secs. 1 & 36.

Over level valley, scattering sage brush,
dense bunch grass, sandy soil, some clay.

40.00 Set an iron post 3 ft. long 1 in. in diam. 26 ins. in
the ground for $\frac{1}{4}$ sec. cor., marked on brass cap,
 $\frac{1}{4}$ S. 36 in N., and
S. 1 in S. half,

dig pits 13x13x12 ins. E. & W. of cor. 3 ft. dist., and
raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high N. of cor.

80.00 To cor. of Tps. 25 & 26 N., Rs. 15 & 16 W.

Land, level,
Soil, 2nd rate, sandy, loamy, with some clay.
Undergrowth, scattering sage brush, cacti. Good grass.

General Description.

The line between Tps. 25 & 26 N., through R. 16 W. runs
across a smooth level valley, covered in general with a good
growth of native grass.

The soil is mostly a loose sandy loam, with a little clay
underlying, and moist at slight depth, and would produce
well with irrigation.

There is no timber or water on the line, and but little
undergrowth, except low sage brush.

The land drains to the NW., and the last 2 miles to the
East is subject at times to overflow from floods.

Nov. 19, 1910.

T. 25 N., R. 16 W.

Latitudes, departures and closing errors.

Line Designated.	True bearing.	Distance.	Latitudes.		Departures.	
			N.	S.	E.	W.
		Chs.	Chs.	Chs.	Chs.	Chs.
6th Std. Par. N.	West,	480.00	.....	.....	.....	480.00
West Boundary	North,	480.00	480.00	.....	.....	.....
North Boundary	S. 89°56' E., ...	479.27	.....	.55	479.27	.....
East Boundary	South,	480.00	.....	480.00	.....	.....
Convergency, ..	.....	.....	.....	.....	.52	.....
Totals, .....	.....	.....	480.00	480.55	479.79	480.00
	.....	.....	.....	480.00	.....	479.79
Error in Latitude, ...	.....	.....	.....	.55	.....	.21
Error in Departure, ...	.....	.....	.....	.....	.....	.21

Jesse Wright
U.S. Surveyor.

Chains.

- Nov. 21, 1910.
At 8h a.m., l.m.t., at the cor. of Tps. 25 & 26 N., Rs. 16 & 17 W., recently established by me and heretofore described, I set off $35^{\circ}36'$ N. on the lat. arc, and $19^{\circ}46'$ S. on the decl. arc, and determine a true meridian with the solar. Thence I run,
North, on range line, bet. secs. 31 & 36,
Var. $15^{\circ}25'$ E.
Over gently undulating plain, open land, good native grass, soil, loose, sandy, underlaid with calcareous conglomerate, at depth of 10 to 12 ins.
- .40 Wash, 15 lks. wide, course SW.
- 40.00 Set an iron post 3 ft. long 1 in. in diam. 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap,
 $\frac{1}{4}$ S. 36 in W., and
S. 31 in E. half,
dig pits 18x18x12 ins. N. & S. of cor. 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high W. of cor.
- 57.60 Sandy knoll, brs. E. & W.
- 80.00 Set an iron post 3 ft. long 3 ins. in diam. 24 ins. in the ground for cor. of secs. 25, 30, 31 & 36, marked on brass cap,
T. 26 N. in N. half, and
R. 17 W. S. 25 in NW.,
R. 16 W. S. 30 in NE.,
S. 31 in SE., and
S. 36 in SW. quadrants,
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, undulating.
Soil, 2nd rate, loose, very sandy, underlaid at depth of about 1 ft. with calcareous conglomerate.
No timber.
Undergrowth, scattering sage brush, cacti. Fair grass.
-
- North, bet. secs. 25 & 30.
Over level plain, sparse bunch grass and sage brush.
- 40.00 Set an iron post 3 ft. long 1 in. in diam. 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap,
 $\frac{1}{4}$ S. 25 in W., and
S. 30 in E. half,
dig pits 18x18x12 ins. N. & S. of cor. 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 an iron post 3 ft. long 3 ins. in diam. 24 ins. in the ground for cor. of secs. 19, 24, 25 & 30, marked on brass cap,
T. 26 N. in N. half,
R. 17 W. S. 24 in NW.,
R. 16 W. S. 19 in NE.,
S. 30 in SE., and
S. 25 in SW. quadrants,
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, slightly undulating.
Soil, 2nd rate, loose sandy.
Undergrowth, scattering sage, fair grass.
-

28. Resurvey of the West Boundary of T. 26 N., R. 16 W.

Chains.

North, bet. secs. 19 & 24.
 Over slightly undulating plain,
 sparse sage brush, and bunch grass.

40.00 Set an iron post 3 ft. long 1 in. in diam. 26 ins. in
 the ground for $\frac{1}{4}$ sec. cor., marked on brass cap,
 $\frac{1}{4}$ S. 24 in W., and
 S. 19 in E. half,
 dig pits 18x18x12 ins. N. & S. of cor. 3 ft. dist., and
 raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high W. of cor.

44.00 Enter barren sink, brs. NE. & SW., called red lake,
 thence over clayey barren soil of same, dry at this time.

30.00 Set an iron post 3 ft. long 3 ins. in diam. 24 ins. in
 the ground for cor. of secs. 13, 18, 19 & 24,
 marked on brass cap,
 T. 26 N. in N. half,
 R. 17 W. S. 13 in NW.,
 R. 16 W. S. 13 in NE.,
 S. 19 in SE., and
 S. 24 in SW. quadrants,
 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, slightly undulating.
 Soil, 2nd & 3rd rate, sandy, clayey.
 Undergrowth, sparse sage brush, fair grass in places.
 At this cor., at noon, I set off $19^{\circ}50'$ S. on the
 decl. arc, and observe the sun on the meridian.
 The resulting lat. is $35^{\circ}38\frac{1}{2}'$ N.

North, bet. secs. 13 & 18.
 Over barren clayey flat of Red Lake bed.

40.00 Set an iron post 3 ft. long 1 in. in diam. 26 ins. in
 the ground for $\frac{1}{4}$ sec. cor., marked on brass cap,
 $\frac{1}{4}$ S. 13 in W., and
 S. 18 in E. half,
 dig pits 18x18x12 ins. N. & S. of cor. 3 ft. dist., and
 raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high W. of cor.

30.00 Set an iron post 3 ft. long 3 ins. in diam. 24 ins. in
 the ground for cor. of secs. 7, 12, 13 & 18,
 marked on brass cap,
 T. 26 N. in N. half,
 R. 17 W. S. 12 in NW.,
 R. 16 W. S. 7 in NE.,
 S. 13 in SE., and
 S. 13 in SW. quadrants,
 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, 2nd rate, clayey, sandy, barren, subject to overflow.
 No undergrowth whatever.

Chains.

North, bet. secs. 7 & 12.
Over level barren dry lake bed.
40.00 Set an iron post 3 ft. long 1 in. in diam. 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S. 12 in W. and S. 7 in E. half, dig pits 18x18x12 ins. N. & S. of cor. 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 an iron post 3 ft. long 3 ins. in diam. 24 ins. in the ground for cor. of secs. 1, 6, 7 & 12, marked on brass cap, T. 26 N. in N. half, E. 17 W. S. 1 in NW., R. 16 W. S. 6 in NE., S. 7 in SE., and S. 12 in SW. quadrants, 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, 2nd rate, clayey sandy, barren.
No undergrowth.

North, bet. secs. 1 & 6.
Over level, dry barren lake bed.
40.00 Set an iron post 3 ft. long 1 in. in diam. 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S. 1 in W., and S. 6 in E. half, dig pits 18x18x12 ins. N. & S. of cor. 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 an iron post 3 ft. long 3 ins. in diam. 24 ins. in the ground for cor. of Tps. 26 & 27 N., Rs. 16 & 17 W., marked on brass cap, T. 27 N. in N., R. 16 W. in E., T. 26 N. in S., and R. 17 W. in W. half, S. 36 in NW., S. 31 in NE., S. 6 in SE., and S. 1 in SW. quadrants, dig pits 24x24x12 ins. N., E., & W, 4 ft. & S. of cor. 8 ft. dist., raise a mound of earth 5 ft. base, $2\frac{1}{2}$ ft. high S. of cor.
Land, level,
Soil, 2nd rate, sandy, clayey, barren.
No undergrowth.

Nov. 21, 1910.

General Description.

The West Boundary of T. 26 N., R. 16 W. runs over a level open plain for the south $2\frac{1}{2}$ miles, sparsely covered with native grass and sage brush, soil, a loose sandy loam, underlaid with calcareous conglomerate. The north $3\frac{1}{2}$ miles runs across the East edge of Red Lake, a dry barren sink, elevation 3,000 ft. above sea-level, which extends to the west about 4 miles. This sink is covered at times with a few inches of water after unusually heavy rains, but not of sufficient depth at any time to destroy the corners set by me. Therefore I considered it unnecessary to meander this dry lake bed. This line is supposed to have been surveyed, but I found no trace of any corners whatever on or near the line.


U.S. Surveyor.

Chains

Nov. 22, 1910.
 At 8h a.m., 1 m.t., at the cor. of Tps. 25 & 26 N., Rs. 15 & 16 W., as recently established by me, and heretofore described, I set off 35° 36' N. on the lat. arc, and 19° 59' S. on the decl. arc, and determine a true meridian with the solar. Thence I run,
 North, bet. secs. 31 & 36.
 Over gently undulating land, in valley, through scattering sage brush, fair grass, sandy soil, some clay.
 40.00 Set an iron post 3 ft. long 1 in. in diam. 26 ins. in the ground for 1/4 sec. cor., marked on brass cap,
 1/4 S. 36 in W., and
 S. 31 in E. half,
 dig pits 18x18x12 ins. N. & S. of cor., 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 an iron post 3 ft. long 3 ins. in diam. 24 ins. in the ground for cor. of secs. 25, 30, 31 & 36, marked on brass cap,
 T. 26 N. in N. half,
 R. 16 W. S. 25 in NW.,
 R. 15 W. S. 30 in NE.,
 S. 31 in SE., and
 S. 36 in SW. quadrants,
 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, level, undulating.
 Soil, 2nd rate, sandy, clayey,
 No timber.
 Undergrowth, scattering sage brush, fair grass.

North, bet. secs. 25 & 30. Over level land.
 40.00 Set an iron post 3 ft. long 1 in. in diam. 26 ins. in the ground for 1/4 sec. cor., marked on brass cap
 1/4 S. 25 in W. half,
 S. 30 in E. half, and
 dig pits 18x18x12 ins. N. & S. of cor. 3 ft. dist., and raise a mound of earth 3 1/2 ft. base, 1 1/2 ft. high W. of cor.
 79.46 Wash 80 lks. wide, course W., from SE. at pt. 5 chs. E.
 80.00 Set an iron post 3 ft. long 3 ins. in diam. 24 ins. in the ground for cor. of secs. 19, 24, 25 & 30, marked on brass cap,
 T. 26 N., in N. half,
 R. 16 W. S. 24 in NW.,
 R. 15 W. S. 19 in NE.,
 S. 30 in SE., and
 S. 25 in SW. quadrants,
 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, level, gently undulating.
 Soil, 2nd rate, sandy, some clay.
 Undergrowth, scattering sage brush. Good native grass.

Chains.

- North, bet. secs. 19 & 24.
Over slightly rolling land, sparse grass, sandy, clayey soil, scattering sage brush, subject to overflow.
- 13.09 Wash, 10 lks. wide, course W.
32.07 Old road, brs. NE. & SW.
37.20 Wash 30 lks. wide, course W.,
40.00 Set an iron post 3 ft. long 1 in. in diam. 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap,
 $\frac{1}{4}$ S. 24 in W., and
S. 19 in E. half,
dig pits 18x18x12 ins. N. & S. of cor. 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high W. of cor.
- 63.50 Wash 10 lks. wide, course WSW. spreads out 5 chs. W.
80.00 Set an iron post 3 ft. long 3 ins. in diam. 24 ins. in the ground for cor. of secs. 13, 13, 19 & 24, marked on brass cap,
T. 26 N. in N. half,
R. 16 W. S. 13 in NW.
R. 15 W. S. 18 in NE.,
S. 19 in SE., and
S. 24 in SW. quadrants,
dig pits 13x13x12 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, undulating. partly subject to overflow. Drains W.
Soil, 2nd rate, sandy, loamy, some clay.
Undergrowth, scattering sage brush, cacti. Fair grass.
At this cor. at noon, I set off $20^{\circ} 03'$ S. on the decl. arc, and observe the sun on the meridian.
The resulting lat. is $35^{\circ} 38\frac{1}{2}'$ N.

- North, bet. secs. 13 & 13.
Over level land, thin summer grass, sparse sage brush, land subject to overflow, drains WSW.
- 32.80 Wash 15 lks. wide, course MNW.
40.00 Set an iron post 3 ft. long 1 in. in diam. 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap,
 $\frac{1}{4}$ S. 13 in W., and
S. 13 in E. half,
dig pits 13x13x12 ins. N. & S. of cor. 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high W. of cor.
- 45.58 Wash 70 lks. wide, course WSW.
46.00 Enter greasewood, brs. SW. & NE.
50.07 Road, Hackberry to Music Mtn. & Gold Basin, brs. NW. & SE.
79.75 Wash 15 lks. wide, course WSW.
80.00 Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of secs. 7, 12, 13 & 13, marked on brass cap,
T. 26 N. in N. half,
R. 16 W. S. 12 in NW.,
R. 15 W. S. 7 in NE.,
S. 13 in SE., and
S. 13 in SW. quadrants,
dig pits 13x13x12 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, undulating. drains W. and NW.
Soil, 2nd rat, sandy, loamy, with some clay and gravel.
Undergrowth, sparse sage brush, greasewood, Fair grass.

- North, bet. secs. 7 & 12.
Over gently rolling land, asc. grad., through dense greasewood, Good native grass, soil, gravelly, sandy.
- 4.13 Wash 10 lks. wide, course SW.
40.00 Set an iron post 3 ft. long 1 in. in diam. 26 ins. in the ground for $\frac{1}{4}$ sec. cor. marked on brass cap,
 $\frac{1}{4}$ S. 12 in W., and
S. 7 in E. half,
dig pits 13x13x12 ins. N. & S. of cor. 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high W. of cor.

Chains.

- 45.63 Wash 10 lks. wide, course W.
 56.93 Wash 30 lks. wide, course SW.
 58.00 Foot of rocky hill, brs. NE. & SW. asc.
 64.00 Top of E. slope of hill, Top of hill brs. W. 3 chs. dist.
 68.00 desc. grad. NE. slope
 68.00 Foot, brs. NNW. & SSE. along E. slope.
 80.00 Set an iron post 3 ft. long 3 ins. in diam. 24 ins. in
 the ground for cor. of secs. 1, 6, 7 & 12,
 marked on brass cap,
 T. 26 N. in N. half,
 R. 16 W. S. 1 in NW.,
 R. 15 W. S. 6 in NE.,
 S. 7 in SE., and
 S. 12 in SW: quadrants,
 raise a mound of stone 2 ft. base, 1½ ft. high W. of cor.
 Land, level, rolling.
 Soil, sandy, gravelly.
 Undergrowth, greasewood, sage brush, cacti. Fair grass.

North, bet. secs. 1 & 6.

Over rolling land, desc. grad., through greasewood,
 over stony gravelly soil, along E. slope of
 hill near E. foot.

- 25.00 N. end of hill brs. W. 6 chs.
 26.00 Wash 10 lks. wide, course NW.
 Thence across broken valley of large draw, gravelly soil.
 40.00 Set an iron post 3 ft. long 1 in. in diam. 26 ins. in
 the ground for ¼ sec. cor., marked on brass cap,
 ¼ S. 1 in W. and
 S. 6 in E. half,
 dig pits 18x18x12 ins. N. & S. of cor. 3 ft. dist., and
 raise a mound of earth 3½ ft. base, 1½ ft. high W. of cor.
 45.00 Wash 10 lks. wide, course SW.
 52.25 Wash 30 lks. wide, course WSW.
 80.00 Set an iron post 3 ft. long 3 ins. in diam. 24 ins. in
 the ground for cor. of Tps. 26 & 27 N., Rs. 15 & 16 W.,
 marked on brass cap,
 T. 27 N. in N.,
 R. 15 W. in E.,
 T. 26 N. in S., and
 R. 16 W. in W. half,
 S. 36 in NW., S. 31 in NE., S. 6 in SE., and S. 1 in SW.
 quadrants,
 raise a mound of stone 3 ft. base, 2 ft. high S. of cor.
 No bearings available. Pits impracticable.

Nov. 22, 1910.

General Description.

The line bet. Tps. 26 N., Rs. 15 & 16 W., runs over
 a gently rolling valley for 4½ miles, ascending gently,
 through a sparse growth of greasewood, sage brush, with
 areas of good native grass in places.

The soil is a sandy loam with some gravel, and a little
 clay. The northern part of the line is more stony and
 gravelly.

There is no water or timber on the line.

The land would produce well if irrigated.

Jesse B. Wright
 U.S. Surveyor.

Chains.

Nov. 23, 1910.

At 3h a.m., l.m.t., at the cor. of Tps. 26 & 27 N., Rs. 15 & 16 W., recently established by me, and heretofore described, I set off $35^{\circ} 41'$ N. on the lat. arc, and $20^{\circ} 12'$ S. on the decl. arc, and determine a true meridian with the solar. Thence I run,

West, on a random line, bet. Tps. 26 & 27 N., through R. 16 W.

At 5 miles, 79.22 chs., I fall 43 lks. S. of the cor. of Tps. 26 & 27 N., Rs. 16 & 17 W., heretofore described; thence S. $89^{\circ} 57'$ E., on a true line, bet. Tps. 26 & 27 N., R. 16 W., bet. secs. 6 & 31.

Over barren level lake bed, stiff clayey, sandy soil.

39.22 Set an iron post 3 ft. long 1 in. in diam. 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap,
 $\frac{1}{4}$ S. 31 in N., and
 S. 6 in S. half,

dig pits 18x18x12 ins. E. & W. of cor. 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high N. of cor.

79.22 Set an iron post 3 ft. long 3 ins. in diam. 24 ins. in the ground for cor. of secs. 5, 6, 31 & 32, marked on brass cap,

T. 27 N. in N.,

T. 26 N. in S., and

R. 16 W. in W. half,

S. 31 in NW., S. 32 in NE., S. 5 in SE., and S. 6 in SW. quadrants,

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, 2nd rate, clayey, sandy, subject to flooding. barren. No timber or undergrowth.

S. $89^{\circ} 57'$ E., bet. secs. 5 & 32.

Over barren flat.

4.00 Leave barren lake bed, brs. SSW. & NNE., enter scattering sage brush and bunch grass.

40.00 Set an iron post 3 ft. long 1 in. in diam. 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap,
 $\frac{1}{4}$ S. 32 in N. and
 S. 5 in S. half,

dig pits 18x18x12 ins. E. & W. of cor. 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high N. of cor.

80.00 Set an iron post 3 ft. long 3 ins. in diam. 24 ins. in the ground for cor. of secs. 4, 5, 32 & 33, marked on brass cap,

T. 27 N. in N.,

T. 26 N. in S., and

R. 16 W. in W. half,

S. 32 in NW., S. 33 in NE., S. 4 in SE., and S. 5 in SW. quadrants,

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, clayey, 2nd rate.

Undergrowth, scattering sage brush, cacti. Fair grass.

S. $89^{\circ} 57'$ E., bet. secs. 4 & 33.

Over level plain, sandy, clayey soil, scattering sage and good native grass.

11.23 Dry earth reservoir, brs. SW. & NE., 2 chs. N. of line.

25.00 Old road, brs. NE. & SW.

33.23 Main road, brs. SE. & NW.

40.00 Set an iron post 3 ft. long 1 in. in diam. 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap,
 $\frac{1}{4}$ S. 33 in N. and
 S. 4 in S. half,

dig pits 18x18x12 ins. E. & W. of cor. 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high N. of cor.

Resurvey

34 34.

Bet. 2ps. 26 & 27 N., through R. 16 W.

Chains.

69.10 Wash 10 lks. wide, course WSW.
 80.00 Set an iron post 3 ft. long 3 ins. in diam. 24 ins. in the ground for cor. of secs. 3,4, 33 & 34, marked on brass cap,
 T. 27 N. in N.,
 T. 26 N. in S., and
 R. 16 W. in W. half,
 S. 33 in NW., S. 34 in NE., S. 3 in SE., and S. 4 in SW. quadrants,
 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.
 Land, level, gently undulating.
 Soil, 2nd rate, sandy, gravelly.
 Undergrowth, scattering sage brush, greasewood, cacti.
 Fair grazing.
 At this cor. at noon, 1 set off 20° 16' S. on the decl. arc, and observe the sun on the meridian.
 The resulting lat. is 35° 41' N.

S. 39° 57' E., bet. secs. 3 & 34.
 Over gently undulating plain, asc. slightly, through scattering sage brush and greasewood, Grass fair.
 40.00 Set an iron post 3 ft. long 1 ins. in diam. 26 ins. in the ground for ¼ sec. cor. marked on brass cap,
 ¼ S. 34 in N., and
 S. 3 in S. half,
 dig pits 18x18x12 ins. E. & W. of cor. 3 ft. dist., and raise a mound of earth 3½ ft. base, 1½ ft. high N. of cor.
 80.00 Set an iron post 3 ft. long 3 ins. in diam. 24 in s. in the ground for cor. of secs. 3,4, 33 & 34, marked on brass cap,
 T. 27 N. in N.,
 T. 26 N. in S., and
 R. 16 W. in W. half,
 S. 34 in NW., S. 35 in NE., S. 2 in SE., and S. 3 in SW. quadrants.
 dig pits 18x18x12 ins. in each secs. 5½ ft. dist., and raise a mound of earth 4 ft. base, 2 ft. high W. of cor.
 Land, level, undulating slightly.
 Soil, Sandy, loose, gravelly. 2nd rate.
 Undergrowth, scattering sage brush, greasewood, fair grass.

S. 39° 57' E., bet. secs. 2 & 35.
 Over slightly undulating plain, asc. gently, through scattering sage brush, greasewood, mesquite, cacti.
 1.52 Wash 40 lks. wide, course SW.
 13.35 Old road, brs. ENE. & WSW.
 30.58 Road, (old), brs. SSE. & NNW.
 34.00 Enter dense greasewood, brs. N. & S.
 40.00 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for ¼ sec. cor., marked on brass cap,
 ¼ S. 35 in N., and
 S. 2 in S. half,
 dig pits 18x18x12 ins. E. & W. of cor. 3 ft. dist., and raise a mound of earth 3½ ft. base, 1½ ft. high N. of cor.
 47.95 Wash 10 lks. wide, course SW.
 64.00 Wash 30 lks. wide, course WSW.
 80.00 Set an iron post 3 ft. long 3 ins. in diam. 24 ins. in the ground for cor. of secs. 1,2, 35 & 36, marked on brass cap,
 T. 27 N. in N.,
 T. 26 N. on S., and
 R. 16 W. in W. half,
 S. 35 in NW., S. 36 in NE., S. 1 in SE., and S. 2 in SW. quadrants,
 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.
 Land, gently rolling. Soil, 2nd rate, sandy gravelly.
 Undergrowth, sage brush, dense greasewood. good grass.

Chains.

- S. 89° 57' E., bet. secs. 1 & 36
- Over gently undulating plain, asc. grad., through dense greasewood.
- 10.95 Wash 50 lks. wide, course SSW.
- 24.45 Wash 10 lks. wide, course SW.
- 32.13 Wash 30 lks. wide, course SSW.
- 40.00 Set an iron post 3 ft. long 1 in. in diam. 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S. 36 in N., and S. 1 in S. half, raise a mound of stone 2 ft. base, 1 $\frac{1}{2}$ ft. high N. of cor.
- 45.85 Wash 10 lks. wide, course SW.
- 47.35 Wash 20 lks. wide, course WSW.
- 60.90 Wash 10 lks. wide, course SW.
- 80.00 To cor. of Tps. 26 & 27 N., Rs. 15 & 16 W. Land, gently rolling. Soil, 2nd rate, sandy, gravelly. Undergrowth, greasewood, sage brush, Fair grazing. Nov. 23, 1910.

General Description.

The line bet. Tps. 26 & 27 N., through R. 16 W., runs across a nearly level valley, ascending slightly from West to East. The soil in the West part is a sandy, clayey loam, underlain with some lime gravel, and trends into a sandy granite gravel toward the East part of the line. The land is in general fair grazing land, covered in places with dense greasewood. There is no timber or water on this line. The soil would produce well if irrigated.

Boundaries of T. 26 N., R. 16 W.

Latitudes, departures, and closing errors.

Line Designated.	True bearing.	Distance.	Latitudes		Departures.	
			N.	S.	E.	W.
South Bdy.	N. 89° 56' W.	479.27	.55			479.27
West Bdy.	North.	480.00	480.00			
North Bdy.	S. 39° 57' E.	479.22		.43	479.22	
East Bdy.	South.	480.00		480.00		
Convergency.					.52	
Totals,			480.55	480.43	479.77	479.27
			480.43		479.27	
Error in lat.			.12	Error in Dep.	.50	

Jesse B. Wright
U.S. Surveyor.

Boundaries of Township 26 North, Range 15 West.

Latitudes, departures and closing errors.

Line designated.	True Bearing.	Distance.	Latitudes.		Departures.	
			N.	S.	E.	W.
Frac.S.Bdy.	N.89°58'W.	319.85	.20			319.85
West, "	North,	480.00	480.00			
Frac.N.Bdy.	S.89°58'E.	159.33		.10	159.33	
Subs.	S.0° 3'W.	240.00	240.00			.21
"	S.89°58'E.	80.02		.05	80.02	
"	S.89°57'E.	80.02		.07	80.02	
"	S.0°1'E.	240.00	240.00		.07	
Convergency,					.26	
Totals,			480.20	480.22	319.70	320.06
				480.20		319.70
	Error in lat.			.02		.36
					Error in dep.	

Resurvey

West Boundary of T. 27 N., R. 16 W.

Chains

Nov. 26, 1910.

At 8h a.m., l.m.t., at the cor. of Tps. 26 & 27 N., Rs. 16 & 17 W. as recently established by me and heretofore described, I set off 20° 48' S. on the decl. arc, and 35° 41' N. on the lat. arc, and determine a true meridian with the solar.

Thence I run,

North, on range line, bet. secs. 31 & 36.

Over level, barren flat, clayey soil. Var. 15° 25' E.

40.00 Set an iron post 3 ft. long 1 in. in diam. 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S. 36 in W., and S. 31 in E. half,

dig pits 18x18x12 ins. N. & S. of cor. 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 an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of secs. 25, 30, 31 & 36, marked on brass cap,

T. 27 N. in N. half,
R. 17 W. S. 25 in NW.,
R. 16 W. S. 30 in NE.,
S. 31 in SE., and
S. 36 in SW. quadrants,

dig pits 18x18x12 ins. in each sec. 5 $\frac{1}{2}$ ft. dist., and raise a mound of earth 4 ft. base, 1 $\frac{1}{2}$ ft. high W. of cor.

Land, level, barren clayey flat. subject to flooding. Soil, 2nd rate, clayey sandy.

North, bet. secs. 25 & 30.

Over level barren flat. subject to flooding.

40.00 Set an iron post 3 ft. long 1 in. in diam. 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S. 25 in W., and S. 30 in E. half,

dig pits 18x18x12 ins. N. & S. of cor. 3 ft. dist., and raise a mound of earth 3 $\frac{1}{2}$ ft. base, 1 $\frac{1}{2}$ ft. high W. of cor.

77.97 Road, Gold basin to Hackberry, brs. NW. & SE.

30.00 Set an iron post 3 ft. long 3 ins. in diam. 24 ins. in the ground for cor. of secs. 19, 24, 25 & 30, marked on brass cap

T. 27 N. in N. half,
R. 17 W. S. 24 in NW.,
R. 16 W. S. 19 in NE.,
S. 30 in SE., and
S. 25 in SW. quadrants,

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, 2nd rate, clayey, sandy. barren. moist at slight depth. No timber or undergrowth.

North, bet. secs. 19 & 24.

Over level land, dry, barren.

18.00 NE. edge of dry barren sink, called Red Lake, brs. NW. & SE. Leave level, barren sink, asc. gently, through sparse sage brush, fair native grass, and greasewood.

40.00 Set an iron post 3 ft. long 1 ins. in diam. 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S. 24 in W., and S. 19 in E. half,

dig pits 18x18x12 ins. N. & S. of cor. 3 ft. dist., and raise a mound of earth 3 $\frac{1}{2}$ ft. base, 1 $\frac{1}{2}$ ft. high W. of cor.

77.95 Road, brs. WNW. & ESE.

Chains.
 30.00 Set an iron post 3 ft. long 3 ins. in diam. 24 ins. in the ground for cor. of secs. 13, 18, 19 & 24, marked on brass cap,
 T. 27 N. in N. half,
 R. 17 W. S. 13 in NW.,
 R. 16 W. S. 18 in NE.,
 S. 19 in SE., and
 S. 24 in SW. quadrants,
 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, level, slightly rolling.
 Soil, clayey, sandy, moist, at slight depth.
 No timber.
 Undergrowth, scattering sage brush, greasewood, cacti.
 Fair grazing in places.
 At this cor. at noon, I set off 20° 52 1/2' S. on the decl. arc, and observe the sun on the meridian.
 The resulting lat. is 35° 43 1/2' N.

North, bet. secs. 13 & 18.
 Over level or slightly undulating land, through greasewood and scattering sage brush. Good native grass.
 31.71 Wash 20 lks. wide, course SW.
 37.00 Wash 30 lks. wide, course SSW.
 Leave greasewood, brs. E. & W.
 40.00 Set an iron post 3 ft. long 1 in. in diam. 26 ins. in the ground for 1/4 sec. cor., marked on brass cap,
 1/4 S. 13 in W. and
 S. 18 in E. half,
 dig pits 18x18x12 ins. N. & S. of cor. 3 ft. dist. and raise a mound of earth 3 1/2 ft. base, 1 1/2 ft. high W. of cor.
 53.06 Wash 20 lks. wide, course WSW.
 66.00 Wash, 30 lks. wide, course SSW.
 80.00 Set an iron post 3 ft. long, 3 ins. diam. 24 ins. in the ground for cor. of secs. 7, 12, 13 & 18, marked on brass cap,
 T. 27 N. in N. half,
 R. 17 W. S. 12 in NW.,
 R. 16 W. S. 7 in NE.,
 S. 18 in SE., and
 S. 13 in SW. quadrants,
 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, level.
 Soil, 2nd rate, sandy, gravelly, loose. moist.
 Undergrowth, greasewood, sage brush, Good native grass.

North, bet. secs. 7 & 12.
 Over level land, sandy loam, dense low sage brush, and good native grass.
 40.00 Set an iron post 3 ft. long 1 in. in diam. 26 ins. in the ground for 1/4 sec. cor., marked on brass cap,
 1/4 S. 12 in W., and
 S. 7 in E. half,
 dig pits 18x18x12 ins. N. & S. of cor. 3 ft. dist., raise a mound of earth 3 1/2 ft. base, 1 1/2 ft. high W. of cor.
 64.70 Old road, brs. E. & W, enter scattering greasewood.
 80.00 Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of secs. 1, 6, 7 & 12, marked on brass cap,
 T. 27 N. in N. half,
 R. 17 W. S. 1 in NW.,
 R. 16 W. S. 6 in NE.,
 S. 7 in SE., and
 S. 12 in SW. quadrants,
 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, level, slightly undulating. Soil, 2nd rate, sandy.
 Undergrowth, scattering sagebrush and greasewood.

Resurvey of the West Boundary of Township 27 North Range 16 W. 39.

Chs.
 North bet. secs. 1 and 6.
 Over slightly rolling land, scattering cacti, greasewood, and good native grass.
 10.00 Wash, 40 lks. wide, course SSW.
 34.00 Road, hrs. SSE. and NNW.
 40.00 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 1 in W., and S 6 in E. half; dig pits 18x18x12 ins. N. and S. of cor. 3 ft. dist., and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
 65.27 Wash, 10 lks. wide, course WSW.
 69.43 Wash, 50 lks. wide, course WSW.
 77.85 Wash, 30 lks. wide, course W.
 80.00 Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in the ground for cor. of Tps. 27 and 28 N., Rs. 16 and 17 W., marked on brass cap, T 28 N in N., R 16 W in E., T 27 N in S., and R 17 W in W. half; and S 36 in NW., S 31 in NE., S 6 in SE., and S 1 in SW. quadrants; dig pits 24x24x12 ins. N., E. and W. of cor. 4 ft., and S. of cor. 8 ft. dist., and raise a mound of earth 5 ft. base, $2\frac{1}{2}$ ft. high, S. of cor.
 Land, level, slightly rolling.
 Soil, 2nd rate, sandy, gravelly.
 Undergrowth, greasewood, sage brush, cacti; good grass.
 Nov. 26, 1910.

GENERAL DESCRIPTION.

The west boundary of Tp. 27 N., R. 16 W., runs over nearly level valley, ascending gently from S. to N. The soil is in general a loose sandy loam, with some clay in the south portion, and gravelly towards the north portion, and would produce well with irrigation. There is no water or timber on or near the line.

Boundaries of Township 27 North, Range 16 West.

Latitudes, departures and closing errors.

Line Designated.	True Bearing.	Dist.	Latitudes.		Departures.	
			N.	S.	E.	W.
S. bdy.	N. 89° 57' W.	479.22	.42			479.22
W. bdy.	North,	480.00	480.00			
Frac. N. Bdy,	S. 89° 57' E.	238.70		.21	238.70	
Subs.	S. 0° 2' E.	240.00		240.00	.15	
"	S. 89° 56' E.	80.00		.09	80.00	
"	S. 89° 54' E.	160.06		.14	160.06	
Frac. E. bdy.	South,	240.00		240.00		
Convergency,						.36
Totals,			480.42	480.44	479.27	479.22
				480.42	479.22	
Error in lat.				.02	.05	
						Error in dep.

Re-survey of East Boundary of T. 21 N., R. 13 W.

41.

Chains.

Preliminary to beginning the subdivision of T. 21 N., R. 13 W., I examine the East, W. & N. bdrs. as per the field notes furnished me by the Surveyor General of Arizona.

I find that the corners as called for in said field notes have become entirely obliterated, or were never properly established. A comparison of the topography on the ground and that as called for on said field notes develops gross discrepancies and errors.

The only corner in existence on these lines is the SE. cor., from which I have initiated my re-survey of the Fifth Std. Par. N., and the NW. cor. of T. 21 N., R. 13 W., which is greatly out of limits, both in distance and alinement. I connect the established SE. cor. of this Tp. with the established SW. cor. of T. 23 N., R. 13 W., which latter Tp. is already subdivided, and the fact is developed that an error of over 30 chs. E. & W., and over 9 chs. N. & S. exists, relative to the old positions of these corners. I make a detailed report of my findings to the Surveyor General of Arizona, and upon instructions, I proceed as follows:-

Jan. 15, 1911, having examined, adjusted, and tested all parts of my instrument, which is a W. & L. E. Gurley light mountain transit, with Burt's patent solar attachment, all verniers reading to 1' of arc; and having established a true meridian at the Std. cor. of Tps. 21 N., Rs. 12 & 13 W., as per field notes of re-survey of Fifth Std. Par. N.: knowing that my instrument is correct, from said Std. cor. of Tps. 21 N., Rs. 12 & 13 W., as heretofore re-established and described, in Book C, I run North, bet. secs. 31 & 36, on true meridional line, by back and foresight, Var. 15° 25' E.

Over rolling broken ridges, trending to W., ascend.

- 3.00 Top of ridge, brs. W. & E., desc. leave flag on line.
 12.00 Wash, 10 lks. wide, course WNW., asc.
 15.50 Ridge, brs. W. & E., near W. end, desc.
 20.00 Draw, 2 chs. wide, course WSW., asc. gradually through scattering cedars.
 40.00 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap,
 $\frac{1}{4}$ S. 36 in W., and
 S. 31 in E. half, from which,
 A cedar tree 8 ins. diam. brs. S. 29° E. 33 lks. dist., marked $\frac{1}{4}$ S. 31 B.T.
 A cedar tree 8 ins. diam. brs. N. 20° 20' W., 296 lks. dist., marked $\frac{1}{4}$ S. 36 B.T.

Thence ascending gradually over a succession of small ridges and gulches, trending to W., very broken land.

- 79.00 Top of broad flat ridge, brs. W. & E., desc. grad.
 80.00 Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of secs. 25, 30, 31 & 36, marked on brass cap,

T. 21 N. in N. half,
 R. 13 W. S. 25 in NW.,
 R. 12 W. S. 30 in NE.,
 S. 31 in SE., and

S. 36 in SW. quadrants, from which,

- A cedar tree 7 ins. diam. brs. N. 33° E. 29 lks. dist., marked T. 21 N., R. 12 W. S. 30 B.T.
 A cedar tree 8 ins. diam. brs. S. 46½° E. 45 lks. dist., marked T. 21 N., R. 12 W. S. 31 B.T.
 A cedar tree 8 ins. diam. brs. S. 39½° W. 31 lks. dist., marked T. 21 N., R. 13 W. S. 36 B.T.
 A cedar tree 12 ins. diam. brs. N. 58½° W. 75 lks. dist., marked T. 21 N., R. 13 W. S. 25 B.T.

Land, broken, heavily rolling.

Soil, 3rd rate, gravelly, loose, dry.

Cedar timber.

Undergrowth, cedar, palonegro, greasewood, cacti. sparse grass.

Chains.

North, bet. secs. 25 & 30.
 Over heavily rolling, broken land, drainage to WSW.

3.00 Old road, brs. WNW. & ESE.
 4.00 Draw, 2 chs. wide, course WSW. asc.
 9.00 Top of ridge, brs. WSW. & ENE., desc.
 16.00 Draw 4 chs. wide, course WSW., asc.
 28.00 Top of ridge, brs. W. & E., turns to WSW. desc. grad.
 40.00 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in
 the ground for $\frac{1}{4}$ sec. cor., marked on brass cap,
 $\frac{1}{4}$ S. 25 in W., and
 $\frac{1}{4}$ S. 30 in E. half, from which,
 A cedar tree 19 ins. diam. brs. N. 68 $\frac{1}{2}$ ° E. 79 lks. dist.,
 marked $\frac{1}{4}$ S. 30 B.T.
 A cedar tree 9 ins. diam. brs. N. 61 $\frac{1}{2}$ ° W. 54 lks. dist.,
 marked $\frac{1}{4}$ S. 25 B.T.

43.00 Draw 150 lks. wide, course SW.
 58.70 Draw 250 lks. wide, course SW.
 69.00 Draw, 250 lks. wide, course SW., asc.
 72.00 Top of flat ridge, brs. SW. & NE.
 79.00 Desc.
 80.00 Foot, brs. E. & W.
 Set an iron post 3 ft. long, 3 ins. diam. 24 ins. in
 the ground for cor. of secs. 19, 24, 25 & 30,
 marked on brass cap,
 T. 21 N., in N. half,
 R. 13 W. S. 24 in NW.,
 R. 12 W. S. 19 in NE.,
 S. 30 in SE., and
 S. 25 in SW. quadrants, from which,
 A cedar tree 9 ins. diam. brs. N. 41 $\frac{3}{4}$ ° E. 21 lks. dist.,
 marked T. 21 N., R. 12 W. S. 19 B.T.
 A cedar tree 6 ins. diam. brs. S. 21 $\frac{3}{4}$ ° E. 28 lks. dist.,
 marked T. 21 N., R. 12 W. S. 30 B.T.
 A cedar tree 12 ins. diam. brs. S. 54 $\frac{1}{2}$ ° W. 70 lks. dist.,
 marked T. 21 N., R. 13 W. S. 25 B.T.
 A cedar tree 10 ins. diam. brs. N. 22 $\frac{1}{2}$ ° W. 13 lks. dist.,
 marked T. 21 N., R. 13 W. S. 24 B.T.

Land, broken, heavily rolling.
 Soil, 3rd rate, sandy, gravelly, loose.
 Cedar, palonegro, greasewood, sage brush, sparse grass.

North, bet. secs. 19 & 24.
 Over heavily rolling, broken land,

3.00 Wash, 20 lks. wide, course SW.
 17.00 Wash, 20 lks. wide, course SW.
 24.10 Road, brs. WNW. & ESE.
 31.50 Wash, 30 lks. wide, course SW., asc.
 34.50 Flat spur, brs. SW. & NE., desc.
 38.00 Bottom, brs. E. & W.
 40.00 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in
 the ground for $\frac{1}{4}$ sec. cor., marked on brass cap,
 $\frac{1}{4}$ S. 24 in W., and
 $\frac{1}{4}$ S. 19 in E. half, from which,
 A cedar tree 8 ins. diam. brs. S. 44 $\frac{1}{2}$ ° E. 25 lks. dist.,
 marked $\frac{1}{4}$ S. 19 B.T.
 A cedar tree 12 ins. diam. brs. N. 74 $\frac{1}{2}$ ° W. 114 lks. dist.,
 marked $\frac{1}{4}$ S. 24 B.T.

51.00 Ravine, course W., asc.
 54.00 Top of ridge, brs. W. & E.,
 58.00 Desc.
 58.50 Wash, 50 lks. wide, course W., asc. grad.
 65.00 Flat spur, brs. W. & E., desc. grad.
 72.75 Draw, 4 chs. wide, course W., asc.
 74.50 Top, thence over smooth land, slopes to WNW.

Re-survey of East Boundary of T. 21 N., R. 13 W. 43.

Chains.

80.00 Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of secs. 13, 18, 19 & 24, marked on brass cap,

T. 21 N. in N. half,

R. 13 W. S. 13 in NW.,

R. 12 W. S. 18 in NE.,

S. 19 in SE., and

S. 24 in SW. quadrants, from which,

A cedar tree 6 ins. diam. brs. S. 66 $\frac{1}{2}$ ° E. 74 lks. dist., marked T. 21 N., R. 12 W. S. 19 B.T.

A cedar tree 8 ins. diam. brs. N. 49 $\frac{3}{4}$ ° E. 105 lks. dist., marked T. 21 N., R. 12 W. S. 18 B.T.

A cedar tree 6 ins. diam. brs. S. 66° W. 5 lks. dist., marked T. 21 N., R. 13 W. S. 24 B.T.

A cedar tree 8 ins. diam. brs. N. 72 $\frac{3}{4}$ ° W. 118 lks. dist., marked T. 21 N., R. 13 W. S. 13 B.T.

Land, heavily rolling, broken.

Soil, 3rd rate, sandy, gravelly, loose, dry.

Cedar, palonegro, greasewood, cacti. Good grass in draws.

At this cor. at noon, 1.m.t., clouds overcast the sky.

Impracticable to obtain a clear image of the sun to observe the latitude.

North, bet. secs. 13 & 18.

Over rolling, broken land, through dense cedar.

10.80 Leave flat, enter rolling, uneven land. desc.

12.20 Draw, 8 chs. wide, course ~~SW~~.

19.50 Canyon, 80 lks. wide, course SW., asc.

23.00 Top and over broken rolling land. many small drains to W.

40.00 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap,

$\frac{1}{4}$ S. 18 in W., and

S. 18 in E. half, from which,

A cedar tree 9 ins. diam. brs. S. 61 $\frac{1}{4}$ ° W. 25 lks. dist., marked $\frac{1}{4}$ S. 13 B.T.

A cedar tree 5 ins. diam. brs. N. 86 $\frac{3}{4}$ ° E. 32 lks. dist., marked $\frac{1}{4}$ S. 18 B.T.

Leave dense cedar, thence through scattering cedar. asc.

49.00 Top of ridge, brs. W. & E., desc.

57.50 Middle of draw 4 chs. wide, course W., asc. grad.

73.00 Top of ridge, brs. SW. & NE., desc.

80.00 Foot and enter broad level flat or draw.

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

T. 21 N. in N. half,

R. 13 W. S. 12 in NW.,

R. 12 W. S. 7 in NE.,

S. 18 in SE., and

S. 13 in SW. quadrants,

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.

No bearings available.

Land, rolling, very broken.

Soil, 3rd rate, sandy, gravelly, loose,

Cedar, palonegro, cacti. Good grass in draws.

North, bet. secs. 7 & 12.

Over heavily rolling, broken land, scattering cedar.

3.00 Draw, 15 chs. wide, course WSW. ,

14.00 Asc.

20.00 Top of ridge, brs. SW. & NE.

33.00 Desc.

38.00 Enter broad draw or flat, brs. E. & W.

Chains.

40.00 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S. 12 in W., and S. 7 in E. half, from which,
 A cedar tree 8 ins.diam. brs. N.19°E. 213 lks.dist., marked $\frac{1}{4}$ S. 7 B.T.
 A cedar tree 10 ins.diam. brs. N.24°W. 57 lks.dist., marked $\frac{1}{4}$ S.12 B.T.

43.80 Wash, in middle of draw, 40 lks. wide, course WSW.
 56.00 Wash, 40 lks. wide, course WSW. leave draw and asc.
 58.10 Top of sharp ridge, brs. WSW. & ENE., desc.
 74.00 East, brs. W. & E., enter draw, course W.
 80.00 Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of secs. 1,6,7 & 12, marked on brass cap,
 T. 21 N. in N. half,
 R. 13 W. S. 1 in NW.,
 R. 12 W. S. 6 in NE.,
 S. 7 in SE., and
 S.12 in SW. quadrants,
 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.
 No bearings available.
 Land, broken, heavily rolling.
 Soil, 2nd & 3rd rate, sandy, gravelly, loose, dry,
 Cedar, palonegro, few cacti. Good grass in draws.

North, bet. secs. 1 & 6.

Over heavily rolling, broken land.

7.75 Wash, 80 lks. wide, in middle of broad draw, course SW.
 11.00 Leave draw, and asc.
 15.00 Top of ridge, brs. SW., desc. grad. over broken land, many small drains to SW.
 34.00 Wash, 50 lks. wide, course SW. asc. grad.
 40.00 Top of low flat ridge, brs. SW. & NE.
 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S. 1 in W., and S. 6 in E. half, from which,
 A cedar tree 10 ins.diam. brs. N.14°W. 76 lks. dist., marked $\frac{1}{4}$ S. 1 B.T.
 A cedar tree 12 ins.diam. brs. N. 3°E. 162 lks. dist., marked $\frac{1}{4}$ S. 6 B.T.
 Enter smoother land.

45.00 Wash, 30 lks. wide, course SW.
 58.00 Leave cedars, brs. SW. & NE., enter wide flat, drains W.
 80.00 Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of Tps.21 & 22 N.,Rs. 12 & 13 W., marked on brass cap,
 T. 22 N. in N.,
 R. 12 W. in E.,
 T. 21 N. in S., and
 R. 13 W. in W. half,, and
 S. 36 in NW.,
 S. 31 in NE.,
 S. 6 in SE., and
 S. 1 in SW. quadrants,
 dig pits 24x24x12 ins., on each line, N.,E.,& W.,4 ft., and S. of cor. 8 ft.dist.; and raise a mound of earth,5 ft. base, 2 $\frac{1}{2}$ ft.high S. of cor. No bearings available.
 Land, heavily rolling, broken. Soil,3rd rate, sandy.
 Scattering cedar, palonegro. Good native grass.

Jan. 15, 1911.

General Description.

The East Boundary of T. 21 N., R. 13 W. runs over a broken or heavily rolling country, draining by many draws and washes to the W. or SW. The soil is mostly a loose, sandy or gravelly texture, loose and dry, covered with scattering cedar, dense in places.

John R. Wright S. Surveyor.

Chains.

- Jan. 19, 1911.
 At 8h a.m., l.m.t., at the Std. cor. of Tps. 21 N., Rs. 13 & 14 W. as heretofore re-established and described by me, Book C.
 I set off $20^{\circ}25'$ S. on the decl. arc, and $35^{\circ}9\frac{1}{2}'$ N. on the lat. arc, and determine a true meridian with the Solar.
 Thence I run,
 North, on range line, bet. secs. 31 & 36.,
 Var. $15^{\circ}25'$ E.
 Over rolling, or broken land, through scattering cedar.
- 6.50 Wash, 100 lks. wide, course ENE.
 29.00 Wash, 30 lks. wide, course E.
 40.00 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap,
 $\frac{1}{4}$ S. 36 in W., and
 S. 31 in E. half, from which,
 A cedar tree 14 ins. diam. brs. N. 3° E. 138 lks. dist., marked $\frac{1}{4}$ S. 31 B.T.
 A cedar tree 8 ins. diam. brs. N. $74\frac{1}{2}^{\circ}$ W. 97 lks. dist., marked $\frac{1}{4}$ S. 36 B.T.
- 64.60 Wash, 50 lks. wide, course E.
 80.00 Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of sec. 25, 30, 31 & 36, marked on brass cap,
 T. 21 N. in N. half,
 R. 14 W. S. 25 in NW.,
 R. 13 W. S. 30 in NE.,
 S. 31 in SE., and
 S. 36 in SW. quadrants; from which,
 A cedar tree 6 ins. diam. brs. N. 47° E. 42 lks. dist., marked T. 21 N., R. 13 W. S. 30 B.T.
 A cedar tree 12 ins. diam. brs. S. $47\frac{1}{2}^{\circ}$ E. 251 lks. dist., marked T. 21 N.; R. 13 W. S. 31 B.T.
 A cedar tree 10 ins. diam. brs. S. 22° W. 45 lks. dist., marked T. 21 N., R. 13 W. S. 36 B.T.
 A cedar tree 14 ins. diam. brs. N. 80° W. 99 lks. dist., marked T. 21 N., R. 13 W. S. 25 B.T.
- Land, rolling, broken. Soil, 3rd rate, sandy, gravelly. Scattering cedar, palonegro. Good native grass., cacti.
-
- North, bet. secs. 25 & 30.
 Over rolling, or broken land, low flat ridges, trend E., through scattering cedar.
- 11.40 Wash, 50 lks. wide, course ESE., in draw, 8 chs. wide. Asc. grad.
 26.12 Old Hardyville road, brs. E. & W., from Kingman to Prescott. on flat ridge, brs. E. & W.,
 31.05 N. edge of flat ridge, brs. E. and W., desc. grad.
 40.00 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap,
 $\frac{1}{4}$ S. 25 in W., and
 S. 30 in E. half; from which,
 A cedar tree 8 ins. diam. brs. S. 86° E. 40 lks. dist., marked $\frac{1}{4}$ S. 30 B.T.
 A cedar tree 10 ins. diam. brs. N. 8° W. 100 lks. dist., marked $\frac{1}{4}$ S. 25 B.T.
- 65.00 Cross small draw, course E., and asc. grad.
 80.00 Top of spur, brs. E. & W.
 Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of secs. 19, 24, 25 & 30, marked on brass cap,
 T. 21 N., in N. half,
 R. 14 W. S. 25 in NW.,
 R. 13 W. S. 19 in NE.,
 S. 30 in SE., and
 S. 25 in SW. quadrants; from which,

Chains.

- A cedar tree 10 ins. diam. brs. N.25°E. 64 lks. dist., marked T. 21 N. R. 13 W. S. 19 B.T.
- A cedar tree 10 ins. diam. brs. S.89°E. 55 lks. dist., marked T. 21 N., R. 13 W. S. 30 B.T.
- A cedar tree 20 ins. diam. brs. S.34°W. 57 lks. dist., marked T. 21 N., R. 14 W. S. 25 B.T.
- A cedar tree 20 ins. diam. brs. N.59°W. 97 lks. dist., marked T. 21 N., R. 14 W. S. 24 B.T.

Land, rolling, broken.
 Soil, 3rd rate, sandy, gravelly, loose, dry.
 Scattering cedar, palonegro, tesseta, cacti. Good grass.

North, bet. secs. 19 & 24.

Over rolling or broken land, drains to E. desc.

- 5.78 Wash, 50 lks. wide, course E.
- 32.00 Wash, 80 lks. wide, course ESE.
- 34.00 Wash, 50 lks. wide, course SE.
- 40.00 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S. 24 in W., and S. 19 in E. half; from which,
 - A cedar tree 10 ins. diam. brs. N.30°E. 136 lks. dist., marked $\frac{1}{4}$ S. 19 B.T.
 - A cedar tree 8 ins. diam. brs. S.82°W. 96 lks. dist., marked $\frac{1}{4}$ S. 24 B.T.
- 42.00 Wash, 50 lks. wide, course SE., asc. grad.
- 80.00 Top of flat ridge, brs. SE. & NW.
- Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of secs. 13, 18, 19 & 24, marked on brass cap,
 - T. 21 N. in N. half,
 - R. 14 W. S. 13 in NW.,
 - R. 13 W. S. 18 in NE.,
 - S. 19 in SE., and
 - S. 24 in SW. quadrants; from which,
 - A palonegro tree 6 ins. diam. brs. N.74°E. 37 lks. dist., marked T. 21 N., R. 13 W. S. 18 B.T.
 - A Palonegro tree 6 ins. diam. brs. S.35°E. 136 lks. dist., marked T. 21 N., R. 13 W. S. 19 B.T.
 - A cedar tree 8 ins. diam. brs. S.16 $\frac{1}{2}$ °W. 27 lks. dist., marked T. 21 N., R. 14 W. S. 24 B.T.
 - A palonegro tree 8 ins. diam. brs. N.10 $\frac{1}{2}$ °W. 77 lks. dist., marked T. 21 N., R. 14 W. S. 13 B.T.

Land, rolling. Soil, 3rd rate, sandy, gravelly.
 Scattering cedar, tesseta, cacti. Good native grass.
 At this cor. at noon, I set off 20° 25' S. on the decl. arc, and observe the sun on the meridian.
 The resulting lat. is 35° 12' N.

North, bet. secs. 13 & 18.

Over broken rolling land, through dense cedar, palonegro, and cacti. Fine native grass. desc.

- 4.75 Wash, 20 lks. wide, course E.
- 19.85 Wash, 20 lks. wide, course ESE.
- 22.00 Wash, 20 lks. wide, course ESE.
- 40.00 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S. 13 in W., and S. 18 in E. half; from which,
 - A cedar tree 6 ins. diam. brs. N.27°E. 109 lks. dist., marked $\frac{1}{4}$ S. 18 B.T.
 - A cedar tree 10 ins. diam. brs. N.41 $\frac{1}{2}$ °W. 160 lks. dist., marked $\frac{1}{4}$ S. 13 B.T.
- 50.50 Wash, 20 lks. wide, course E.

Chains.

- 58.00 Wash, 50 lks. wide, course SE., enter foot hills, asc.
 68.00 Ridge, brs. SE. & NW. desc.
 74.00 Wash, 20 lks. wide, course SE. asc. grad.
 80.00 Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of secs. 7, 12, 13 & 18, marked on brass cap,
 T. 21 N., in N. half,
 R. 14 W. S. 12 in NW.,
 R. 13 W. S. 7 in NE.,
 S. 18 in SE., and
 S. 13 in SW. quadrants; and
 raise a mound of stone 2 ft. base, 1 1/2 ft. high W. of cor. Land, heavily rolling. Soil, 3rd rate, sandy, gravelly. Scattering cedar, palonegro. Good grass. Jan. 19, 1911.

Jan. 20, 1911.

At 8h a.m., l.m.t., at the cor. of secs. 7, 12, 13 & 18, as above described,

I set off $20^{\circ}13'S$ on the decl. arc, and $35^{\circ}13'N$ on the lat. arc, and determine a true meridian with the solar. Thence I run,

North, bet. secs. 7 & 12.

Over heavily rolling, land, asc. grad., through scattering cedar, palonegro, Good native grass.

- 2.20 Ridge, brs. SE. & NW., desc.
 12.15 Wash, 20 lks. wide, course ESE.,
 27.35 Wash, 30 lks. wide, course SE.
 40.00 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap,
 $\frac{1}{4}$ S. 12 in W., and
 S. 7 in E. half; from which,
 A pinon tree 14 ins. diam. brs. $N.66^{\circ}E$. 25 lks. dist., marked $\frac{1}{4}$ S. 7 B.T.
 A cedar tree 12 ins. diam. brs. $S.75^{\circ}W$. 47 lks. dist., marked $\frac{1}{4}$ S. 12 B.T.
 44.75 Wash, 60 lks. wide, course SE.
 78.00 Wash, 20 lks. wide, course SE. asc. grad.
 80.00 Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of secs. 1, 6, 7 & 12, marked on brass cap,
 T. 21 N. in N. half,
 R. 14 W. S. 1 in NW.,
 R. 13 W. S. 6 in NE.,
 S. 7 in SE., and
 S. 12 in SW. quadrants; from which,
 A cedar tree 10 ins. diam. brs. $N.26^{\circ}E$. 213 lks. dist., marked T. 21 N., R. 13 W. S. 6 B.T.
 A cedar tree 20 ins. diam. brs. $S.45^{\circ}E$. 145 lks. dist., marked T. 21 N., R. 13 W. S. 7 B.T.
 A cedar tree 10 ins. diam. brs. $S.20^{\circ}W$. 88 lks. dist., marked T. 21 N., R. 14 W. S. 12 B.T.
 A cedar tree 20 ins. diam. brs. $N.71^{\circ}W$. 246 lks. dist., marked T. 21 N., R. 14 W. S. 1 B.T.

Land, heavily rolling, broken.

Soil, 3rd rate, gravelly, loose, dry.

Scattering cedar, palonegro, cacti, tesseta, mesquite.

Fine native grass.

Chains.

- North, bet. secs. 1 & 6.
Over heavily rolling land, asc. grad. over series of small ridges, trending to SE., through scattering cedar and palonegro, good native grass.
- 40.00 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap,
 $\frac{1}{4}$ S. 1 in W., and
S. 6 in E. half; from which,
A cedar tree 6 ins. diam. brs. S. $40\frac{1}{2}^{\circ}$ E. 78 lks. dist., marked $\frac{1}{4}$ S. 6 B.T.
A cedar tree 10 ins. diam. brs. N. $59\frac{1}{2}^{\circ}$ W. 157 lks. dist., marked $\frac{1}{4}$ S. 1 B.T.
- 74.60 Wash, 80 lks. wide, course SE., asc.
- 80.00 Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of Tps. 21 & 22 N., Rs. 13 & 14 W., marked on brass cap,
T. 22 N. in N.,
R. 13 W. in E.,
T. 21 N. in S., and
R. 14 W. in W. half, and
S. 36 in NW.,
S. 31 in NE.,
S. 6 in SE., and
S. 1 in SW. quadrants; from which,
A cedar tree 10 ins. diam. brs. N. 86° W. 90 lks. dist., marked T. 22 N., R. 14 W. S. 36 B.T.
A cedar tree 6 ins. diam. brs. S. 41° E. 48 lks. dist., marked T. 21 N., R. 13 W. S. 6 B.T.
No other bearings available. Pits impracticable. I raise a mound of stone 4 ft. base, 3 ft. high S. of cor. Remains of the old cor. of Tps. 21 & 22 N., Rs. 13 & 14 W., brs. N. $53^{\circ}40'$ W. 850 lks. dist., which is a stone with traces of markings lying loose on the ground, which I destroy.
- Land, rolling.
Soil, 3rd rate, sandy, gravelly, loose, dry.
Scattering cedar, palonegro, cacti, tesseta, greasewood.
Good native grass, thick dense growth.
At this cor. at noon, I set off $20^{\circ}13'$ S. on the decl. arc and observe the sun on the meridian.
The resulting lat. is $35^{\circ}15'$ N.

--- General Description. ---

The West Boundary of T. 21 N., R. 13 W. runs over broken, or heavily rolling land, on the West side of valley of large wash, across many small ridges and gulches or washes trending to the East or SE.
The soil is a loose, gravelly texture, and is covered with a fine growth of native bunch grass, and dense cedar along parts of the line.
To the west there is more cedar, and the land rises gradually over rolling grassy ridges to the SE. foothills of the Peacock Mts.
There is no water along the line.

Jesse B. Wright
U. S. Surveyor.

Chains.

Jan. 20, 1911.

At 1h. 30m. p.m., l.m.t., at the cor. of Tps. 21 & 22 N., Rs. 12 & 13 W., as recently re-established by me, and heretofore described,

I set off $20^{\circ}12'$ S. on the decl. arc, and $35^{\circ}15'$ N. on the lat. arc, and determine a true meridian with the solar. Thence I run, as per instructions,

West, on a random line, on N. bdy. of Tp., setting temp. $\frac{1}{2}$ cors. and sec. cors. at intervals of 40.00 and 80.00 chs.; measuring 2 miles of random line this p.m.
Jan. 20, 1911.

Jan. 21, 1911.

At 8h a.m., l.m.t., at the temp. cor. of secs. 2, 3, 34 & 35, on the N. bdy. of Tp.,

I set off $20^{\circ}00'$ S. on the decl. arc, and $35^{\circ}15'$ N. on the lat. arc, and determine a true meridian with the solar, Thence I run, continuing my random line,

West, on N. bdy. of Tp.

At 5 miles, 79.40 chs., I fall 41 lks. S. of the cor. of Tps. 21 & 22 N., Rs. 13 & 14 W., as recently re-established by me, and heretofore described; whence I run, S. $89^{\circ}57'$ E., on a true line, on N. bdy. of Tp., bet. secs. 6 and 31.

Over broken, rolling land, desc. grad., through scattering cedar, palonegro, tesseta, mesquite.

30.00 Main wash, 150 lks. wide, course SSE.

37.00 Gulch, 30 lks. wide, course SW., asc.

39.40 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap,
 $\frac{1}{4}$ S. 31 in N., and
S. 6 in S. half,

raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high N. of cor. No bearings available. Pits impracticable.

Asc. SW. slope, through dense palonegro.

79.40 Set an iron post 3 ft. long, 3 ins. in diam. 2+ ins. in the ground for cor. of secs. 5, 6, 31 & 32, marked on brass cap,

T. 22 N. in N.,
T. 21 N. in S., and
R. 13 W. in W. half,
S. 31 in NW.,
S. 32 in NE.,
S. 5 in SE., and
S. 6 in SW. quadrants,

raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high W. of cor. No bearings available. Pits impracticable.

Land, rolling, mts.

Soil, 3rd rate, sandy, gravelly, dry.

Scattering cedar, palonegro, cacti. Good native grass.

S. $89^{\circ}57'$ E., bet. secs. 5 & 32.

Over mts. land, asc. steep SW. slope.

21.00 Top of divide, brs. N. & S., turns to SE. A high peak on same, brs. SE. about 22 chs. dist. desc. grad.

32.00 Desc. steep NE. slope.

40.00 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap,
 $\frac{1}{4}$ S. 32 in N., and
S. 5 in S. half,

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

41.00 Gulch, 40 lks. wide, course NE., thence along prec. N. slope.

70.00 Asc. prec. NW. slope.

73.80 Top of high mountain ridge, brs. NE. & SW., desc. prec. E. slope.

Chains.

80.00 Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of secs. 4, 5, 32 & 33, marked on brass cap,
 T. 22 N. in N.,
 T. 21 N. in S., and
 R. 13 W. in W. half,
 S. 32 in NW.,
 S. 33 in NE.,
 S. 4 in SE., and
 S. 5 in SW. quadrants,
 raise a mound of stone 2 ft. base, 1 1/2 ft. high W. of cor.
 No bearings available. Pits impracticable.
 Land, mts. rough.
 Soil, 3rd rate, stony.
 No timber.
 Undergrowth, scattering cedar, palonegro, cacti.

S. 89° 57' E., bet. secs. 4 & 33.
 Over mts. land, desc. prec. E. slope.

14.00 Bottom of ravine, course NE., asc. NW. slope.
 40.00 Top of ridge, brs. NE. & SW. Thence desc. stony E. slope.
 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for 1/4 sec. cor., marked on brass cap,
 1/4 S. 33 in N., and
 S. 4 in S. half; from which,
 A cedar tree 7 ins. diam. brs. S. 94° E. 94 lks. dist., marked 1/4 S. 4 B.T.
 A cedar tree 7 ins. diam. brs. N. 16 1/2° W. 18 lks. dist., marked 1/4 S. 33 B.T.

78.00 Ravine, course NE., asc. slope of malpais ridge.

80.00 Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of secs. 3, 4, 33 & 34, marked on brass cap,
 T. 22 N. in N.,
 T. 21 N. in S., and
 R. 13 W. in W. half,
 S. 33 in NW.,
 S. 34 in NE.,
 S. 3 in SE., and
 S. 4 in SW. quadrants; from which,
 A cedar tree 12 ins. diam. brs. N. 12° E. 19 lks. dist., marked T. 22 N., R. 13 W. S. 34 B.T.
 A cedar tree 10 ins. diam. brs. N. 16 1/2° W. 168 lks. dist., marked T. 22 N., R. 13 W. S. 33 B.T.
 No other bearings available. Pits impracticable.
 raise a mound of stone 2 ft. base, 1 1/2 ft. high W. of cor.
 Land, mts., very rough.
 Soil, 3rd rate, stony.
 No timber.,
 Undergrowth, scattering cedar, palonegro, greasewood, cacti. Sparse native grass.
 At this cor. at noon, I set off 2000'S. on the decl. arc, and observe the sun on the meridian.
 The resulting lat. is 35° 15' N.

Re-survey of North Boundary of T. 21 N., R. 13 W. 51.

Chains.	S. 89°57' E., bet. secs. 3 & 34.
	Over mts. stony land, asc.
5.50	Spur, brs. NE. & SW., desc.
9.50	Ravine, course NE., asc.
16.00	Ridge, brs. NE. & SW., desc.
40.00	Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for $\frac{1}{4}$ sec. cor. marked on brass cap, $\frac{1}{4}$ S. 34 in N., and S. 3 in S. half; from which, A cedar tree 12 ins. diam. brs. N. 15 $\frac{3}{4}$ ° E. 21 lks. dist., marked $\frac{1}{4}$ S. 34 B.T. A cedar tree 10 ins. diam. brs. S. 31° W. 36 lks. dist., marked $\frac{1}{4}$ S. 3 B.T.
	Cor. is on E. slope of mts. Desc. over very rough, broken, stony land, through scattering cedars.
55.00	Leave cedars brs. N. & S.
60.00	Road, Hackberry to Sandy and Signal, brs. N. & S. enter valley.
65.00	Sandy wash, 4 chs. wide, course S.
75.00	Leave bottom, brs. N. & S., asc.
80.00	Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of secs. 2, 3, 34 & 35, marked on brass cap, T. 22 N. in N., T. 21 N. in S., and R. 13 W. in W. half, S. 34 in NW., S. 35 in NE., S. 2 in SE., and S. 3 in SW. quadrants, raise a mound of stone 2 ft. base, 1 $\frac{1}{2}$ ft. high W. of cor. No bearings available. Pits impracticable. Land mts., rolling. Soil, 3rd rate, gravelly, stony, sandy. Scattering cedar, palonegro, cacti. Sparse grass.
	<hr/>
	S. 89°57' E., bet. secs. 2 & 35.
	Over broken, rolling land, asc. grad.
7.00	Top of broken mesa, on E. of valley, asc. grad. on same, through scattering cedars.
40.00	Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S. 35 in N. and S. 2 in S. half; from which, A cedar tree 24 ins. diam. brs. S. 74 $\frac{3}{4}$ ° E. 22 lks. dist., marked $\frac{1}{4}$ S. 2 B.T. A cedar tree 8 ins. diam. brs. North; 73 lks. dist., marked $\frac{1}{4}$ S. 35 B.T.
45.00	Desc.
49.00	Enter valley of large wash. brs. SW. & NE.
65.00	Wash, 150 lks. wide, course SW.
72.00	Asc.
73.00	Top, of rise, and asc. grad.
80.00	Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of secs. 1, 2, 35 & 36, marked on brass cap, T. 22 N. in N., T. 21 N. in S., and R. 13 W. in W. half, S. 35 in NW., S. 36 in NE., S. 1 in SE., and S. 2 in SW. quadrants, from which, A cedar tree 6 ins. diam. brs. N. 46 $\frac{3}{4}$ ° E. 19 lks. dist., marked T. 22 N., R. 13 W. S. 36 B.T. A cedar tree 15 ins. diam. brs. S. 29° E. 41 lks. dist., marked T. 22 N., R. 13 W. S. 1 B.T. A cedar tree 16 ins. diam. brs. S. 14 $\frac{1}{2}$ ° W. 136 lks. dist., marked T. 21 N., R. 13 W. S. 2 B.T. A cedar tree 5 ins. diam. brs. N. 61 $\frac{1}{2}$ ° W. 205 lks. dist., marked T. 22 N., R. 13 W. S. 35 B.T.
	Land, rolling. Soil, 3rd rate, gravelly. Scattering cedar.

Chains.

S. 89° 57' E., bet. secs. 1 & 36.
 Over gently rolling land, slightly broken, asc. grad. through scattering cedars.
 40.00 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S. 36 in N., and S. 1 in S. half; from which,
 A cedar tree 6 ins. diam. brs. S. 45° W. 76 lks. dist., marked $\frac{1}{4}$ S. 1 B.T.
 A cedar tree 8 ins. diam. brs. N. 20° W. 192 lks. dist., marked $\frac{1}{4}$ S. 36 B.T.
 65.00 Leave cedars, brs. N. & S.
 80.00 To cor. of Tps. 21 & 22 N., Rs. 12 & 13 W.
 Land, gently rolling, broken.
 Soil, 3rd rate, sadny, gravelly.
 Timber, cedar.
 Undergrowth, scattering cedar, palonegro, cacti.
 Good native grass.

Jan. 21, 1911.

--- General Description. ---
 The North Boundary of T. 21 N., R. 13 W. runs over a broken or mostly mountainous country, crossing a small lone range of mountains covered with volcanic scoria. The soil is in general gravelly or stony, and of little value except in the narrow valleys of the larger washes.
 There is no water on the line.

Boundaries of T. 21 N., R. 13 W.
 Latitudes, Departures, & closing errors.

Line Designated.	True bearing.	Distance.	Latitudes. Departures.			
			N.	S.	E.	W.
		Chs.	Chs.	Chs.	Chs.	Chs.
5th Std. Par M.	West.....	480.00	.....	.....	.....	480.00
West Bdy.	North.....	480.00	480.00	.....	.....	.....
North Bdy.	S. 89° 57' E....	479.40	.....	.41	479.40	.....
East Bdy.	South,	480.00	.....	480.00	.....	.....
Convergency,	.....	.....	.....	.....	.51	.....
	Totals, ...	480.00	480.00	480.41	479.91	480.00
				480.00		479.91
	Error in Lat. ....			.41		
	Error in Dep. ....					.09

Jesse B. Wright
 U. S. Surveyor.

Re-survey of East Boundary of T. 20 N., R. 13 W.

53.

Chains.

Jan. 23, 1911.

I examine the original East Boundary of T. 20 N., R. 13 W., running East from the Std. cor. of Tps. 21 N., Rs. 12 & 13 W., a distance of 24.24 chs. and find the old closing cor. of Tps. 20 N., Rs. 12 & 13 W., 10 lks. S. of my line, thence I run South, as per the field notes of this line as furnished me by the Surveyor General, and make diligent search for corners as called for at intervals of 40.00 and 80.00 chs.

I find that the original corners on this line have been obliterated, and therefore a re-survey is necessary;

Jan. 23, 1911.

Jan. 26, 1911.

At 8h a.m., l.m.t., at Std. cor. of Tps. 21 N., Rs. 12 & 13 W., as recently re-established by me in its original position, and heretofore described,

I set off $18^{\circ}49\frac{1}{2}'$ S. on the decl. arc, and $35^{\circ}9\frac{1}{2}'$ N. on the lat. arc, and determine a true meridian with the solar. By comparison, this meridian falls about $10''$ E. of the true meridian as established by me at this cor. on

Jan. 14 & 15; this being a satisfactory test, and knowing also by recent and repeated tests that my instrument is in satisfactory adjustment, from the cor. above described, I run, as per instructions,

East, on Fifth Standard Parallel North,

24.24

The original closing cor. of Tps. 20 N., Rs. 12 & 13 W., brs. S. 10 lks. dist., which is an old stake, marked and witnessed as described by the Surveyor General. As this cor. is in a very dilapidated condition, and the markings almost obliterated, I destroy same, and in original position of old cor., I

Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for closing cor. of Tps. 20 N., Rs. 12 & 13 W., marked on brass cap,

C.C. S. of centre,

T. 21 N., R. 13 W. S. 36; R. 12 W. S. 31 in N. half, and T. 20 N. in S. half,

S. 6, R. 12 W. in SE., and

S. 1, R. 13 W. in SW. quadrants,

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

No bearings available. Pits impracticable.

The true bearing back to Std. cor. of Tps. 21 N., Rs. 12 and 13 W. is N. $89^{\circ}46'$ W.

From this closing cor. I run, as per instructions,

South, bet. secs. 1 & 6.

Over heavily rolling, broken land, desc. S. slope, through scattering palonegro, cacti, few cedars.

8.60 Wash, 20 lks. wide, course W., asc. grad.

40.00 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap,

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

S. 6 in E. half,

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

No bearings available. Pits impracticable.

40.81 Faint traces of old $\frac{1}{4}$ sec. cor. on line, which I destroy.

57.00 Top of ridge, brs. SW. & NE., turns to S. 5 chs. to SW. desc.

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

T. 20 N. in N. half,

R. 13 W. S. 1 in NW.,

R. 12 W. S. 6 in NE.,

S. 7 in SE., and S. 12 in SW. quadrants,

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

Land, heavily rolling. Soil, 3rd rate, stony, gravelly, scattering palonegro, cacti, cedar. Good grass.

Chains.

- South, bet, secs. 7 & 12.
 Over heavily rolling, broken, land, desc.
- 14.70 Wash, 20 lks. wide, course SSW., asc.
 22.50 Wash, 20 lks. wide, course SE., asc. steeper.
 29.00 Top of ridge, brs. NW. and SE, desc.
 35.20 Wash, 20 lks. wide, course SE., near head, asc. steep.
 40.00 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap,
 $\frac{1}{4}$ S. 12 in W., and
 S. 7 in E. half,
 raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high W. of cor.
 No bearings available. Pits impracticable.
- 42.00 Ridge, brs. SE. & NW. desc. ends is 5 chs. SE.
 78.00 Road, brs. NE. & W.
 80.00 Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of secs. 7, 12, 13 & 18, marked on brass cap,
 T. 20 N. in N. half,
 R. 13 W. S. 12 in NW.,
 R. 12 W. S. 7 in NE.,
 S. 18 in SE., and
 S. 13 in SW. quadrants,
 raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high W. of cor.
 No bearings available. Pits impracticable.
 Land, broken, heavily rolling, mts.
 Soil, 3rd rate, gravelly, stony. dry.
 No timber.
 Undergrowth, sparse palonegro, cacti, native grass.
 At this cor. at noon, the sky is overcast, impracticable to make a satisfactory observation for latitude.
-
- South, bet. secs. 13 & 18.
 Over mts. land, barren granite ledges and boulders, desc.
- 3.00 Granite ledge, 20 ft. high, brs. N. & S.
 8.69 Wash, 20 lks. wide, course E. asc.
 32.00 Top of granite hill, brs. E. & W., desc. prec.
 36.50 Centre of cottenwood canyon 300 ft. deep, 150 lks. wide at bottom, course W. asc. prec.
 40.00 Set an iron post 3 ft. long, 1 in. in diam., on bed-rock, in mound of stone, for $\frac{1}{4}$ sec. cor., marked on brass cap,
 $\frac{1}{4}$ S. 13 in W., and
 S. 18 in E. half,
 raise a mound of stone 3 ft. base, 2 ft. high W. of cor.
- 41.86 Top of rough granite hill, brs. E. & W., desc. prec.
 50.00 Cottenwood canyon, 350 ft. deep, course SSE., asc. prec.
 70.81 Rocky spur, brs. SE. & NW., desc. prec.
 80.00 Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of secs. 13, 18, 19 & 24, marked on brass cap,
 T. 20 N. in N. half,
 R. 13 W. S. 13 in NW.,
 R. 12 W. S. 18 in NE.,
 S. 19 in SE., and
 S. 24 in SW. quadrants,
 raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high W. of cor.
 Land, rough, broken, mts.
 Soil, 3rd & 4th rate, stony. barren.
 Sparse palonegro, cacti, in places.

Jan. 26, 1911.

Chains.

Jan. 27, 1911.

At 8h a.m., l.m.t., at the cor. of secs. 13, 18, 19 & 24, I set off $18^{\circ}35'$ S. on the decl. arc, and $35^{\circ}7'$ N. on the lat. arc, and determine a true meridian with the solar, Thence I run,

South, bet. secs. 19 & 24.

Over rough, mts., barren, stony land, desc. prec. SE. slope.

- 4.50 Cottonwood canyon, 350 ft. deep, 2 chs. wide at bottom, course SW., asc. steep. stony NNW. slope.
- 14.20 Gulch, 40 lks. wide, course NNW., asc. prec.
- 22.00 Top of S. rim of canyon, brs. SW. & NE., asc. grad. broken, stony NW. slope.
- 40.00 Set an iron post 3 ft. long, 1 in. in diam. 20 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S. 24 in W., and S. 19 in E. half, raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high W. of cor.
- 51.00 Spur, brs. WNW. & ESE., desc.
- 55.80 Granite wash, 80 lks. wide, course WNW.
- 56.00 Dim wagon trail brs. E. & W., asc. steep.
- 80.00 Top of E. side of butte, brs. NW. & SE. Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of secs. 19, 24, 25 & 30, marked on brass cap, T. 20 N. in N. half, R. 13 W. S. 24 in NW., R. 12 W. S. 19 in NE., S. 30 in SE., and S. 25 in SW. quadrants, raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high W. of cor. Land, rough, broken, mts. Soil, 3rd & 4tg rate, stony, barren. Sparse palenegro, scrub oak, cacti.

South, bet. secs. 25 & 30.

Over mts. stony land, desc. SW. slope of butte, over barren granite ledges.

- 10.88 Gulch, 50 lks. wide, course W., asc.
- 30.00 Top of rocky spur, brs. W. & E., desc. prec.
- 31.12 N. rim of canyon, brs. WNW. & ESE., thence line descends prec. to canyon, course WNW., 400 ft. deep, across which I cannot chain. The land is also too rough to the E. & W., on both sides of canyon to measure a base line accurately; so I send a man ahead with stadia rod, and placing the rod on line on S. side of canyon, it being practically level with my instrument, I measure or read an interval of 8.61 lks. on the rod, To this reading, I add 2 lks., practically, or 1.25 ft., which is the stadia constant of my instrument, making the corrected distance from my instrument to the rod, 8.63 chs., which added to 31.12 chs., gives
- 39.75 To rod on S. rim of canyon, brs. WNW. & ESE., asc.
- 40.00 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S. 25 in W., and S. 30 in E. half, raise a mound of stone 3 ft. base, 2 ft. high W. of cor. Continue to asc. NW. slope, over barren granite ledges.
- 53.00 Top of flat rocky spur, brs. W. & E., desc.
- 59.55 Granite wash, 50 lks. wide, course WNW., asc. steep N. slope.
- 68.66 Top of rocky spur, brs. WNW. & ESE., desc. grad.
- 70.00 A granite pinnacle 60 ft. high, brs. E. 4 chs. dist., desc. steep SSW. slope.
- 80.00 Impracticabel to set iron post, therefore I Set a granite stone $24 \times 12 \times 8$ ins. 18 ins. in ground for cor. of secs. 25, 30, 31 & 36, marked with 1 notch on S. & 5 notches on N. edges, and raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high W. of cor. No bearings available.

Chains.

Land, mts., very rough.
 Soil, 3rd rate, stony, barren.
 No timber.
 Undergrowth, scattering palenegro, scrub oak, cacti.
 At this cor. at noon, I set off 18° 34' S. on the
 decl. arc, and observe the sun on the meridian.
 The resulting lat. is 35° 52' N.

South, bet. secs. 31 & 36.
 Over rough granite boulders and ledges, desc.
 23.00 Canyon, S. branch of cottonwood, course NW., asc. steep
 NE. slope.
 40.00 Impracticable to set iron post.
 Set a granite stone, 20x10x8 ins. 15 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.
 Asc. prec.
 56.60 Top of ridge, brs. W. & E.,
 59.00 Desc. prec.
 65.00 Gulch, 300 ft. deep, course W., asc. steep N. slope.
 72.80 Top of ridge, brs. W. & E.,
 73.50 Desc. prec.
 80.00 Set an iron post 3 ft. long, 3 ins. in diam. 20 ins. in
 the ground, in mound of stone, on bed-rock, for cor.
 of Tps. 19 & 20 N., Rs. 12 & 13 W., marked on brass cap,
 T. 20 N. in N.,
 R. 12 W. in E.,
 T. 19 N. in S., and
 R. 13 W. in W. half,
 S. 36 in NW.,
 S. 31 in NE.,
 S. 6 in SE., and
 S. 1 in SW. quadrants, and
 raise a mound of white quartz stones 4 ft. base, 3 ft.
 high, S. of cor.
 No bearings available. Pits impracticable.
 Land, rough, mts.
 Soil, 3rd rate, stony.
 Sparse palenegro, cacti, greasewood.

Jan. 27, 1911.

-- General Description. --

The East Boundary of T. 20 N., R. 13 W., runs across
 a broken, or heavily rolling country in the N. 2 1/2 miles,
 soil, loose, gravelly, and dry, with fair growth of
 native grass. The south 3 1/2 miles is very stony, and
 mts., and in places is absolutely devoid of vegetation,
 being barren stretches on granite ledges and boulders.
 To the East, the land is broken and mts. and of little
 value for any purpose.
 There is no water or timber on or near this line, and
 no trace of settlements.

Jesse Wright
 U. S. Surveyor.

Chains.

- Feb. 2, 1911.
 At 8h a.m., l.m.t., at cor. of Tps. 21 & 22 N., Rs. 13 & 14 W.,
 as re-established by me, and heretofore described,
 I set off $16^{\circ}57'$ S. on the decl. arc, and $35^{\circ}15'$ N. on the
 lat. arc, and determine a true meridian with the solar.
 Thence I run, Var. $15^{\circ}25'$ E.
- North, on range line, bet. secs. 31 & 36,
 Over rolling, broken land, drains SE., through dense
 palonegro, scrub oak, scattering cedar, few pinen.
- 15.80 Wash, 50 lks. wide, course ESE.
 21.16 Wash, 50 lks. wide, course ESE.
 40.00 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the
 ground for $\frac{1}{4}$ sec. cor., marked on brass cap,
 $\frac{1}{4}$ S. 36 in W., and
 S. 31 in E. half,
 raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high W. of cor.
 No bearings available. Pits impracticable.
- 40.91 Wash, 20 lks. wide, course SE.
 50.00 Wash, 20 lks. wide, course E.
 67.60 Wash, 20 lks. wide, course SE.
 68.50 Old road, brs. NNW. & SSE.
 80.00 Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in
 the ground for cor. of secs. 25, 30, 31 & 36,
 marked on brass cap,
 T. 22 N. in N. half,
 R. 14 W. S. 25 in NW.,
 R. 13 W. S. 30 in NE.,
 S. 31 in SE., and
 S. 36 in SW. quadrants; from which,
 A cedar tree 10 ins. diam. brs. N. 50° E. 39 lks. dist.,
 marked T. 22 N., R. 13 W. S. 30 B.T.
 A cedar tree 6 ins. diam. brs. S. 15° E. 70 lks. dist.,
 marked T. 22 N., R. 13 W. S. 31 B.T.
 A cedar tree 10 ins. diam. brs. S. 84° W. 65 lks. dist.,
 marked T. 22 N., R. 14 W. S. 36 B.T.
 A cedar tree 10 ins. diam. brs. N. 24° W. 175 lks. dist.,
 marked T. 22 N., R. 13 W. S. 25 B.T.
- Land, rolling, broken.
 Soil, 3rd rate, sandy, gravelly.
 No timber.
 Undergrowth, Palonegro, cedar, scrub oak, pinen, cacti.
 Good native grass.

- North, bet. secs. 25 & 30.
 Over mts. land, asc. stony SW. slope.
- 5.80 Gulch, 20 lks. wide, course SW., near head, asc. steep.
 15.31 Gulch, 30 lks. wide, course SW., asc. prec.
 32.00 Top of divide, brs. NW. & SE., desc. NE. slope.
 A low gap in same is NW. about 20 chs.
 A low pass or break through same is SE. about 30 chs.
- 40.00 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in
 the ground for $\frac{1}{4}$ sec. cor., marked on brass cap,
 $\frac{1}{4}$ S. 25 in W., and
 S. 30 in E. half; from which,
 A cedar tree 6 ins. diam. brs. S. 54° E. 217 lks. dist.,
 marked $\frac{1}{4}$ S. 30 B.T.
 A cedar tree 14 ins. diam. brs. N. 50° W. 119 lks. dist.,
 marked $\frac{1}{4}$ S. 25 B.T.
- 51.80 Wash, 60 lks. wide, course a little S. of E., foot of
 main slope, brs. E. & W., enter dense cedar.
 60.60 Wash, 40 lks. wide, course ESE.
 73.20 Wash, 20 lks. wide, course ESE.
 77.25 Wash, 50 lks. wide, course E.

Chains.

80.00 Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of secs. 19, 24, 25 & 30, marked on brass cap,
 T. 22 N. in N. half,
 R. 14 W. S. 24 in NW.,
 R. 13 W. S. 19 in NE.,
 S. 30 in SE., and
 S. 25 in SW. quadrants; from which,
 A cedar tree 8 ins. diam. brs. N. 60° W. 128 lks. dist.,
 marked T. 22 N., R. 14 W. S. 24 B.T.
 No other bearings available. Pits impracticable.
 Raise a mound of stone 2 ft. base, 1½ ft. high W. of cor.
 Land, mts., broken.
 Soil, 3rd rate, stony, gravelly.
 Cedar, palenegro, few pinon, cacti. Good native grass.

North, bet. secs. 19 & 24.

Over gently rolling land, slopes to E., through dense cedar, scrub oak, cacti. loose sandy soil,

20.00 Leave cedar, brs. E. & W.

28.20 Old road, brs. NNE. & SSW.

40.00 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for ¼ sec. cor., marked on brass cap,
 ¼ S. 24 in W., and
 S. 19 in E. half,

dig pits 18x18x12 ins. N. & S. of cor. 3 ft. dist., and raise a mound of earth 3½ ft. base, 1½ ft. high W. of cor.

80.00 Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of secs. 13, 18, 19 & 24, marked on brass cap,

T. 22 N. in N. half,
 R. 14 W. S. 13 in NW.,
 R. 13 W. S. 18 in NE.,
 S. 19 in SE., and
 S. 24 in SW. quadrants,

dig pits 18x18x12 ins. in each sec. 5½ ft. dist., and raise a mound of earth 3½ ft. base, 1½ ft. high W. of cor.
 No bearings available.

Land, rolling. Soil, 2nd & 3rd rate, sandy, gravelly.

Cedar, palenegro, scrub oak, cacti. Good native grass.

At this cor. at noon, I set off 16° 56' S. on the decl. arc, and observe the sun on the meridian.

The resulting lat. is 35° 17½' N.

North, bet. secs. 13 & 18.

Over gently rolling land, slopes to E.

32.00 Wash, 60 lks. wide, course E.

40.00 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for ¼ sec. cor. marked on brass cap,
 ¼ S. 13 in W., and
 S. 18 in E. half,

dig pits 18x18x12 ins. N. & S. of cor. 3 ft. dist., and raise a mound of earth 3½ ft. base, 1½ ft. high W. of cor.

65.40 Old road, brs. NNE. & SSW.

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

T. 22 N., in N. half,
 R. 14 W. S. 12 in NW.,
 R. 13 W. S. 7 in NE.,
 S. 18 in SE., and
 S. 13 in SW. quadrants,

dig pits 18x18x12 ins. in each sec. 5½ ft. dist., and raise a mound of earth 3½ ft. base, 1½ ft. high W. of cor.

Land, rolling. Soil, 2nd & 3rd rate, sandy, gravelly.

Few cedar, palenegro, scrub oak, cacti. Good native grass.

Chains.

- North, bet. secs. 7 & 12.
Over gently rolling land, slopes to E., through scattering cedar, palonegro, clumps of dense scrub oak.
- 3.00 Wash, 50 lks. wide, course ENE.
9.77 Wash, 20 lks. wide, course ENE.
38.65 Wash, 30 lks. wide, course ENE.
40.00 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap,
 $\frac{1}{4}$ S. 12 in W., and
S. 7 in E. half,
dig pits 18x18x12 ins. N. & S. of cor. 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft., high W. of cor.
No bearings available.
- 55.35 Wash, 50 lks. wide, course ENE.
70.88 Wash, 20 lks. wide, course ENE.
80.00 Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of secs. 1, 6, 7 12, marked on brass cap,
T. 22 N. in N. half,
R. 14 W. S. 1 in NW.,
R. 13 W. S. 6 in NE.,
S. 7 in SE., and
S. 12 in SW. quadrants,
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.
No bearings available.
Land, rolling.
Soil, 3rd rate, gravelly, sandy.
Scattering cedar, palonegro, cacti, scrub oak. Good grass.
-
- North, bet. secs. 1 & 6.
Over heavily rolling land, somewhat broken, drains to NE.
- 4.55 Wash, 50 lks. wide, course ENE. asc.
10.00 Top of ridge, 60 ft. high, ends 20 chs. to ENE., brs. ENE. & WSW., desc.
17.70 Wash, 20 lks. wide, course ENE., asc.
23.00 Top of ridge, 50 ft. high, ends 20 chs. NE., brs. ENE. & WSW. desc.
27.55 Wash, 20 lks. wide, course ENE.
33.30 Wash, 20 lks. wide, course ENE.
40.00 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap,
 $\frac{1}{4}$ S. 1 in W., and
S. 6 in E. half; from which,
A cedar tree 10 ins. diam. brs. N. $32\frac{1}{4}$ ° E. 211 lks. dist., marked $\frac{1}{4}$ S. 6 B.T.
A cedar tree 6 ins. diam. brs. S. 20 ° W. 76 lks. dist., marked $\frac{1}{4}$ S. 1 B.T.
- 57.90 Wash, 50 lks. wide, course NE.,
75.70 Wash, 20 lks. wide, course ENE.
- 80.00 Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in the ground for the N.E. cor. of T. 22 N., R. 14 W., marked on brass cap,
T 22 N R 14 W, S 1 in SW. quadrant,
T 22 N R 13 W S 6 in E. half;
T 23 N R 14 W S 36 in NW. quadrant; build a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high, SW. of cor.
No bearings available.
Land, heavily rolling, broken.
Soil, 3rd rate, gravelly.
Scattering cedar, scrub oak, cacti.
Good native grass.

Feb. 2, 1911.

--- General Description. ---

The West Boundary of T. 22 N., R. 13 W., runs over a mountainous stony country in the south 2 miles, and over a gently rolling, or broken country the north 4 miles. The soil is in general gravelly, or loose and sandy, and stony in places.

There is no timber or water on or near the line. There is considerable cedar along a part of the line, which grows dense towards the Peacock mountains on the West, the main slope of which is about 2 or 3 miles to the West. The land to the West is good grazing land, and the East half of T. 22 N., R. 14 W. should be subdivided.

None of the land is valuable for agricultural purposes without plenty of water for irrigation, as the soil is too dry and loose for cultivation without irrigation.

Boundaries of T. 22 N., R. 13 W.

Latitudes, Departures and Closing errors.

Line designated	True Bearing.	Distance.	Latitudes.		Departures.	
			Chs.	S.	E.	W.
South Bdy.	N. 89° 57' W.	479.40	Chs.	Chs.	Chs.	Chs.
West Bdy.	North, -----	489.60	489.60	-----	-----	479.40
South Bdy.	West, -----	32.35	-----	-----	-----	32.35
North Bdy.	East, -----	512.98	-----	-----	512.98	-----
East Bdy.	South, -----	490.50	-----	490.50	-----	-----
Convergency,	-----	-----	-----	-----	0.51	-----
Totals, -----			490.01	490.50	513.49	511.75
			-----	490.01	511.75	-----
Error in Latitude, -----			-----	0.49	-----	-----
Error in Departure, -----			-----	-----	1.74	-----

Jesse B. Wright
U. S. Surveyor.

Chains

March 23, 1911.

A preliminary examination of the lines of parts of the original survey in this district, reveals the fact that practically all the corners of the original survey have been destroyed and obliterated, and that the original lines were greatly in error, both in measurement and alinement, therefore, before making any subdivision of any lands in this locality, it is necessary to re-survey the boundaries of the several townships embraced under the projected surveys.

At 8h a.m., l.m.t., at the cor. of Tps. 21 & 22 N., Rs. 14 & 15 W., as recently re-established by W. O. Secor, and by him described, in Book D.

I set off $0^{\circ}46'$ N. on the decl. arc, and $35^{\circ}15'$ N. on the lat. arc, and determine a true meridian with the solar. Thence I run, as per instructions, on range line, North, bet. secs. 31 & 36.

Var. $15^{\circ}25'$ E.

Over gently rolling valley, desc. slightly.

10.10 Wash, 20 lks. wide, course NW.

31.33 Wash, 50 lks. wide, course WNW.

40.00 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap,
 $\frac{1}{4}$ S. 31 in W., and
S. 36 in E. half,

dig pits $18 \times 18 \times 12$ ins., N. & S. of cor. 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high W. of cor.

74.00 Asc. SW. slope of butte.

80.00 Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of secs. 25, 30, 31 & 36, marked on brass cap,

T. 22 N. in N. half,
R. 15 W., S. 25 in NW.,
R. 14 W., S. 30 in NE.,
S. 31 in SE., and
S. 36 in SW. quadrants,

raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high W. of cor. No bearings available. Pits impracticable.

Land, rolling.

Soil, 3rd rate, gravelly, sandy.

Scattering cacti, sage brush, tesseta. Fair native grass.

North, bet. secs. 25 & 30.

Over broken, land, asc.

4.00 Top of W. side of W. end of hill, brs. E. & W., desc.

10.00 Foot of hill, brs. ENE. & SW.

11.00 Wash, 20 lks. wide, course WNW.

27.00 Wash, 30 lks. wide, course WNW.

31.72 Wash, 20 lks. wide, course W.

40.00 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap,
 $\frac{1}{4}$ S. 25 in W., and S. 30 in E. half,

dig pits $18 \times 18 \times 12$ ins. N. & S. of cor. 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high W. of cor.

49.30 Wash, 50 lks. wide, course WSW.

72.00 Wash, 50 lks. wide, course W.

80.00 Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of secs. 19, 24, 25 & 30, marked on brass cap, T. 22 N. in N. half,

R. 15 W. S. 24 in NW.,
R. 14 W. S. 19 in NE.,
S. 30 in SE., and
S. 25 in SW. quadrants,

dig pits $18 \times 18 \times 12$ 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, broken. Soil, 3rd rate, gravelly, sandy.

Sparse greasewood, cacti, tesseta, palonegro.

Good native grass.

Chains.

North, bet. secs. 19 & 24.
 Over broken, rolling land.
 5.90 Wash, 20 lks. wide, course W.
 28.50 Wash, 40 lks. wide, course WNW.
 As cor. point for $\frac{1}{4}$ sec. cor. will fall in wash, at
 38.00 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in
 the ground for witness cor., to $\frac{1}{4}$ sec. cor., marked on
 brass cap,
 WC $\frac{1}{4}$, N. of centre,
 S. 19 in SE., and
 S. 24 in SW. quadrants,
 dig pits 18x18x12 ins. N. & S. of cor. 3 ft. dist., and
 raise a mound of earth 3 $\frac{1}{2}$ ft. base, 1 $\frac{1}{2}$ ft. high W. of cor.
 40.00 Wash, 150 lks. wide, course W., main wash.
 54.96 Gulch, 20 lks. wide, 30 ft. deep, course WNW.
 59.25 Wash, 20 lks. wide, course W.
 78.00 Wash, 50 lks. wide, course WSW., asc.
 80.00 Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in
 the ground for cor. of secs. 13, 18, 19 & 24, marked on
 brass cap,
 T. 22 N., in N. half,
 R. 15 W. S. 13 in NW.,
 R. 14 W. S. 18 in NE.,
 S. 19 in SE., and
 S. 24 in SW. quadrants,
 raise a mound of stone 2 ft. base, 1 $\frac{1}{2}$ ft. high W. of cor.
 Land, rolling, broken.
 Soil, 3rd rate, gravelly, sandy.
 Sparse greasewood, cacti, sage brush, palonegro.
 No timber in this valley. Good native grass.
 At this cor. at noon, Sept. 11, I set off 0° 50' N. on the
 decl. arc, and observe the sun on the meridian.
 The resulting lat. is 35° 17 $\frac{1}{2}$ ' N.

North, bet. secs. 13 & 18.
 Over heavily rolling, broken land. asc.
 2.00 Top of E. end of low butte, brs. E. & W., desc.
 6.00 Foot, brs. E. & W.,
 14.90 Wash, 20 lks. wide, course W. asc. grad.
 26.00 Top of flat dividing ridge, brs. E. & W., desc.
 30.00 Gulch, 30 lks. wide, course WNW., foot of hill.
 40.00 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in
 the ground for $\frac{1}{4}$ sec. cor., marked on brass cap,
 $\frac{1}{4}$ S. 13 in W., and
 S. 18 in E. half,
 raise a mound of stone 2 ft. base, 1 $\frac{1}{2}$ ft. high W. of cor.
 65.00 Wash, 30 lks. wide, course WNW. asc.
 70.13 Top of low flat ridge, brs. W. & E., desc. grad.
 76.00 Wash, 20 lks. wide, course WSW.
 80.00 Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in
 the ground for cor. of secs. 7, 12, 13 & 18, marked on
 brass cap,
 T. 22 N., in N. half,
 R. 15 W., S. 12 in NW.,
 R. 14 W., S. 7 in NE.,
 S. 18 in SE., and
 S. 13 in SW. quadrants,
 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, broken, rolling.
 Soil, 3rd rate, gravelly.
 Scattering greasewood, cacti, palonegro.
 Good native grass in draws.

Resurvey of East boundary of Township 22 North, Range 15 W. 63.

Chains.

- North, bet. secs. 7 and 12.
Over heavily rolling, broken land.
- 17.50 Wash, 30 lks. wide, course NW.
- 33.00 Wash, 30 lks. wide, course WNW. runs N. of mountain range $\frac{3}{4}$ mile to west.
- 40.00 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 12 in W., and S 7 in E. half; dig pits 18x18x12 ins., N. and S. of cor. 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
- 47.30 Wash, 20 lks. wide, course WSW.
- 49.70 Wash, 30 lks. wide, course WSW.
- 68.20 Wash, 60 lks. wide, course WSW.
- 80.00 Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in the ground for cor. of secs. 1, 6, 7 and 12, marked on brass cap,
T 22 N in N. half;
R 15 W S 1 in NW.,
R 14 W S 6 in NE.;
S 7 in SE., and
S 12 in SW. quadrants; raise a mound of stone 2 ft. base. $1\frac{1}{2}$ ft. high, W. of cor.
- Land, rolling, broken.
Soil, 3rd rate, sandy, gravelly.
Scattering greasewood, cacti, palo negro; good grass in draws.

-
- North, bet. secs. 1 and 6.
Over rolling land.
- 5.90 Wash, 30 lks. wide, course W.
- 24.00 Wash, 80 lks. wide, course WNW.
- 28.20 Wash, 20 lks. wide, course W.
- 30.00 Sheep corral, plank fence 5 chs. square, bears W. 15 chs.; ascend steep stony SW. slope.
- 40.00 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 1 in W., and S 6 in E. half; raise a mound of stone 3 ft. base, 2 ft. high, W. of cor.
- 42.00 Top of S. rim of bluff, brs. NW. and SE., syenite stone. High peak on same 20 chs. NW.; descend NE. slope.
- 80.00 Set an iron post, 3 ft. long, 3 ins. in diam., on bed-rock in mound of stone for cor. of Tps. 22 and 23 N., Rs. 14 and 15 W., marked on brass cap,
T 23 N in N.,
R 14 W in E.,
T 22 N in S., and
R 15 W in W. half;
S 36 in NW.,
S 31 in NE.,
S 6 in SE., and
S 1 in SW. quadrants; raise a mound of stone 4 ft. base, 3 ft. high, on top of a syenite boulder 6 ft. high, 8 lks. S. of cor.
- This cor. is on NE. slope of lone small mountain, near foot, and can be readily located.
Hualpai Sta. brs. N. $69^{\circ}30'$ W., about $4\frac{1}{2}$ miles.
- Land, rolling, mountainous. Soil, 3rd rate, gravelly, stony.
Scattering greasewood, cacti, palo negro; fair grass.
- March 23, 1911.

GENERAL DESCRIPTION.

The East boundary of T. 22 N R. 15 W. runs over a broken rolling country, near the W. foot of the W. slope of the Peacock Mountains on E. side of Hualpai Valley. There is no water or timber on or near the line. The land to the east is good grazing land.

Chains. March 24, 1911. Inasmuch as the East bdy. of T. 23 N., R. 14 W. is defective, both in measurement and alinement, At 8h a.m., l.m.t., at the cor. of Tps. 22 & 23 N., Rs. 14 & 15 W., as recently re-established by me, and heretofore described, I set off $1^{\circ}10'$ N. on the decl. arc, and $35^{\circ}20'$ N. on the lat. arc, and determine a true meridian with the solar. Thence I run, as per instructions, on Tp. line, East, bet. secs. 6 & 31, Var. $15^{\circ}25'$ E.
Over mts. land, desc.

4.50 Wash, 30 lks. wide, course NW.
Asc. grad. along W. slope.

25.00 Wash, 30 lks. wide, course WNW.

40.00 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S. 31 in N., and $\frac{1}{4}$ S. 6 in S. half, raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high N. of cor.

51.60 Wash, 30 lks. wide, course NW., thence W., and joins above wash.

71.40 Wash, 40 lks. wide, course SW., foot of main slope of Peacock Mountains, brs. N. & S., asc.

80.00 Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of secs. 5, 6, 31 & 32, marked on brass cap,
T. 23 N. in N.,
T. 22 N. in S., and
R. 14 W. in W. half,
S. 31 in NW.,
S. 32 in NE.,
S. 5 in SE., and
S. 6 in SW. quadrants,
raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high W. of cor.
Land, mts., rolling.
Soil, 3rd rate, sandy, gravelly, stony.
Scattering greasewood, sage brush, cacti, fair grass.

East, bet. secs. 5 & 32.
Over mts. land, asc. WSW. slope.

10.00 Small drains of water in gulch 2 chs. to S. Asc. prec.

21.05 Top of rocky spur, brs. SW. & NE., asc. along broken SW. slope, very rough.

33.20 Spur, brs. SSW. & NNE., desc.

40.00 Point for $\frac{1}{4}$ sec. cor. falls in gulch, 30 lks. wide, near head, course SSW., asc. prec.

43.00 Top of small spur, brs. SSW. & NNE.
Set an iron post 3 ft. long, 1 in. in diam. 10 ins. in ground to bed-rock, for witness cor. to $\frac{1}{4}$ sec. cor., in mound of stone, marked on brass cap,
W.C. $\frac{1}{4}$ E. of centre,
S. 32 in NE., and
S. 5 in SE. quadrants,
raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high N. of cor.

45.58 Desc. prec.

49.00 Canyon, 150 ft. deep, course SSW., near head, asc. prec.

58.58 Top of spur, brs. SW. & NE., desc. prec.

61.00 Canyon 50 lks. wide, course SW., asc. prec.

64.70 Spur, brs. SW. & NE., desc. pred.

74.00 Canyon, 180 lks. wide, course SSW.

79.00 Canyon, 80 lks. wide, course SW., asc. prec.

80.00 Set an iron post 3 ft. long, 3 ins. in diam., on bed-rock, in mound of stone for cor. of secs. 4, 5, 33 & 33, marked on brass cap,
T. 23 N. in N.,
T. 22 N. in S., and
R. 14 W. in W. half,
S. 32 in NW., S. 33 in NE., S. 4 in SE., and
S. 5 in SW. quadrants,
raise a mound of stone 3 ft. base, 2 ft. high, W. of cor.

Chains.

Land, mts., very rough and broken.
Soil, 3rd rate, stony, barren.
Scattering cedar and pinon, cacti, sparse grass. ✓
At this cor., at noon, I set off $1^{\circ}13'$ S. on the decl. arc, and observe the sun on the meridian.
The resulting lat. is $35^{\circ}20'$ N.

East, bet. secs. 4 & 33.

- Over very rough, stony mts. land, asc. prec. SW. slope.
20.00 Rocky spur, brs. SW. & NE., desc. through dense pinon.
24.00 Head of canyon, course SW., asc. prec.
31.58 Top of main divide of Peacock Mountains, brs. NNW. & SSE.
From this point, the NE. cor. of T. 22 N., R. 14 W., on which I have left a large flag is plainly visible, and brs. East. Therefore my line so far is correct, and I continue, East, setting true corners, desc. prec. NE. slope.
40.00 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap,
S. 33 in N., and S. 4 in S. half, and raise a mound of stone 3 ft. base, 2 ft. high N. of cor. No trees of sufficient size in limits.
45.00 Thence desc. along, very broken N. slope of spur, or long ridge.
60.00 Leave dense pinon, brs. NW. & SE., desc. grad., through scattering cedar and pinon, along broken N. slope.
80.00 Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of secs. 3, 4, 33 & 34, marked on brass cap, T. 23 N. in N.,
T. 22 N. in S., and
R. 14 W. in W. half,
S. 33 in NW.,
S. 34 in NE.,
S. 3 in SE., and
S. 4 in SW. quadrants,
raise a mound of stone 3 ft. base, 2 ft. high W. of cor. No bearings available. Pits impracticable.
Land, mts., rough. Soil, 3rd rate, stony.
Pinon, cedar, scrub oak, cacti, sparse grass in places.
March 24, 1911.

March 25, 1911.

At 9h a.m., l.m.t., at the cor. of secs. 3, 4, 33 & 34, I set off $1^{\circ}34'$ N. on the decl. arc, and $35^{\circ}20'$ N. on the lat. arc, and determine a true meridian with the solar. Thence I run,

East, bet. secs. 3 & 34.

- Over mts. land, desc. along broken N. slope of ridge, through dense scrub oak, scattering cedar & pinon.
4.00 Small spur, brs. N. & S., desc.
31.30 Wash, 50 lks. wide, course NE., asc.
40.00 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap,
 $\frac{1}{4}$ S. 34 in N., and
S. 3 in S. half, from which,
A cedar tree 6 ins. diam. brs. S. 20° E. 16 lks. dist., marked $\frac{1}{4}$ S. 3 B.T.
A pinon tree 4 ins. diam. brs. N. 69° E. 15 lks. dist., marked $\frac{1}{4}$ S. 34 B.T.
41.35 Top of spur, brs. N. & S., desc. grad. along N. slope.
45.00 Near foot of N. slope, main wash is 2 chs. to N., runs E., asc. grad., along NNW. slope. Top of ridge 10 chs. S.
78.00 Gulch, 30 lks. wide, course N., near head, asc. prec.
80.00 Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of secs. 2, 3, 34 & 35, marked on brass cap, T. 23 N. in N., T. 22 N. in S., and R. 14 W. in W. half; S. 34 in NW., S. 35 in NE., S. 2 in SE., & S. 3 in SW. quadrants, Raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high W. of cor. No bearings available.
Land, mts. Soil, 3rd rate, stony. Scattering cedar, pinon.

Resurvey of South boundary of Township 23 North, Range 14 W. 67.
Chains.

- East, bet. secs. 2 and 35.
Over mountainous land, along N. side of main ridge; ascend.
- 3.00 Top of spur, brs. N. and S.; descend.
- 25.00 Near foot of N. slope; main gulch is 3 chs. to N., runs E.; ascend.
- 40.00 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 35 in N., and S 2 in S. half; raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor.
- 45.86 Spur from main ridge, brs. NE. and SW.; descend.
- 50.00 Gulch, 50 lks. wide, course NE.; near head, low saddle in main ridge is 4 chs. to S.; ascend.
- 76.00 Top of spur, brs. NE. and SW.; descend.
- 80.00 Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in the ground for cor. of secs. 1, 2, 35 and 36, marked on brass cap,
T 23 N in N.,
T 22 N in S., and
R 14 W in W. half;
S 35 in NW.,
S 36 in NE.,
S 1 in SE., and
S 2 in SW. quadrants; raise a mound of stone 3 ft. base, 2 ft. high, W. of cor. No bearings available.
- Pits impracticable.
Land, mountainous, broken.
Soil, 3rd rate, stony, gravelly.
Scattering cedar, pinon, cacti, scrub oak, sparse grass.
At this cor. at noon, I set off $1^{\circ}37'N.$ on the decl. arc; and observe the sun on the meridian; the resulting lat. is $35^{\circ}20'N.$

-
- East, bet. secs. 1 and 36.
Over mountainous land; descend through scattering cedar.
- 2.25 Gulch, 50 lks. wide, course NE.; near head, ascend.
- 11.06 Lone cedar, top of main ridge, brs. NE. and SW.; descend SE. slope.
- 35.80 Foot of main slope, brs. NE. and SE.; enter valley, descend gradually.
- 40.00 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 36 in N., and S 1 in S. half; dig pits 18x18x12 ins. E. and W. of cor. 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, N. of cor.
- 46.58 Dim road, brs. SW. and NE.
- 56.00 Wash, 40 lks. wide, course NE.
- 59.00 Wash, 40 lks. wide, course NNE.; ascend gradually.
- 65.00 Low flat ridge, brs. NE. and SW.; descend gradually.
- 78.25 Intersect N.E. corner of T. 22 N., R. 14 W. heretofore described; whence I run, back,
West on my line, as per instructions.
- 32.35 To a point whence the original corner of Ts. 22 and 23 N., Rs. 13 and 14 W. brs. north, 9.60 chs. dist., which is a cedar tree 6 ins. in diam., marked and witnessed as described by the Surveyor General. I change the markings of this old corner to refer to Ts. 22 and 23 N., R. 13 W. only, as per instructions, and at the point 9.60 chs. south, I
Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of T. 22 N., R. 13 W., and of T. 23 N. R. 14 W., marked on brass cap, T 22 N, R 13 W, S 6 in NE., and T 23 N, R 14 W, S 31 in NW. quadrant; raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor. No bearings available. Pits impracticable.
- The true dist. on S. bdy. sec. 36, T. 23 N., R. 14 W. is 45.90 chs.
Land, mountainous, rolling. Soil, 3rd rate, stony, gravelly.
Scattering cedar, few pinon, cacti. Fair grazing.
March 25, 1911.
-

Chains.

Before completing the survey of the Boundaries and the subdivision of Tps. 21 to 24 N., R. 16 W., I examine the measurement and alinement of the East Bdrs. of Tps. 21 - 24 N., R. 17 W., in clusive, and finding that many of the old corners are practicalley obliterated, and also that the measurement and alinement is out of the allowable limits in many places; therefore it is necessary to retrace or re-survey this line before I can properly close my own lines thereon, and determine the true measurement and alinement, and also to re-establish the lost and obliterated corners.

Survey commenced Jan. 9, 1911, and executed with a W. & L.E. Gurley light mountain transit, special make, unnumbered, with Burt's patent solar attachment.

The horizontal limb of the instrument is provided with two double verniers placed opposite to each other, and each reading to 1' of arc, which is also the least reading of the verniers of the latitude and declination arcs.

Having recently tested and adjusted my instrument and the solar attachment on a true meridian determined by observation of Polaris, and knowing it to be correct, and since it was impracticable to make a Polaris observation on the night of Jan. 8, 1911, on account of the sky being overcast and cloudy, I proceed as follows:-

At 9h a.m., l.m.t., at the original Cor. of secs. 19, 24, 25 & 30, T. 21 N., R. 16 & 17 W., which is a granite 10x8x6 ins. above ground, marked and witnessed as described by the Surveyor General, in lat. $35^{\circ}12'20''$ N., Long. $114^{\circ}1'59''$ W., I set off $23^{\circ}10'$ S. on the decl. arc., and $35^{\circ}12'$ N. on the lat. arc, and determine a true meridian with the Solar. Thence I run, Var. $15^{\circ}25'$ E.,

South, on East Bdy. Sec. 25.

Over gently rolling, or broken land, desc. grad.

1.05 Centre of Atchison, Topeka & Santa Fe R.R., brs. S. 65° E. & N. 65° W.

2.00 Western Union Telegraph line, brs. S. 65° E. & N. 65° W.

39.05 Orig. $\frac{1}{4}$ sec. cor. brs. East, 68 lks. dist., which is a malapais stone 8x6x11 ins. above ground, marked and witnessed as described by the Surveyor Gen. I rebuild the mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high W. of cor.

The true course and dist. of this $\frac{1}{4}$ mile is S. 1° E.

39.06 chs.

From this cor., I run,

South, measuring from cor.,

Asc.

19.00 Top of low ridge, brs. E. & W., desc.

36.70 Wash, 50 lks. wide, course WSW., near head, asc.

40.24 Orig. cor. of secs. 25, 30, 31 & 36, on line, which is a malapais stone 16x10x10 ins. above ground, set in mound of stone, marked and witnessed as described by the Surveyor General.

I rebuild the mound of stone 3 ft. base, 2 ft. high W. of cor.

No bearings available.

Land, rolling, broken.

Soil, 3rd rate, gravelly, stony.

Scattering greasewood, mesquite, cacti. Sparse grass.

257

Chains.

South, on East Bdy. sec. 36.

Over rough, broken land, desc.

- 3.40 Gulch, 50 lks. wide, course W., asc. prec.
- 10.00 Top of rim, brs. E. & W. thence on mesa.
- 19.00 N. rim of canyon, brs. NW. & SE., desc. prec.
- 21.00 Canyon, 4 chs. wide, 100 ft. deep, course WNW., asc. prec.
- 23.00 S. rim of canyon, brs. WNW. & ESE. asc. grad., on mesa.
- 28.80 Top of flat ridge, on mesa, brs. WNW. & ESE., desc. grad.
- 35.50 N. rim of canyon, brs. WNW. & ESE., desc. prec.
- 38.50 Canyon, 6 chs. wide, 100 ft. deep, course WNW., asc. prec.
- 40.53 Orig. $\frac{1}{4}$ sec. cor., brs. East, 25 lks. dist., which is a malapais stone 10x8x10 ins. above ground, marked and witnessed as described by the Surveyor General.
I rebuild and reset this cor. in original position.
The true course and distance of this $\frac{1}{2}$ mile is
S. $0^{\circ} 21'$ E., 40.53 chs.
From this $\frac{1}{4}$ sec. cor., I run,
South, measuring from cor.,
- 5.00 Top of mesa, brs. NW. & SE.
- 22.50 Desc.
- 26.00 Top of N. Rim of canyon, brs. E. & W., desc. abrupt 60 ft., thence desc. prec.
- 32.00 Canyon, 200 ft. deep, 5 chs. wide, course W., asc.
- 37.00 W. point of spur from mesa, brs. W. & E., desc.
- 39.92 Orig. Std. cor. of T. 21 N., Rs. 16 & 17 W., brs. E. 5 lks. dist., which is a granite stone 10x8x6 ins. above ground, marked and witnessed as described by the Surveyor General.
I re-mark and reset this cor. in original position, and rebuild the mound of stone 3 ft. base, 2 ft. high N. of cor.
The true course and distance of this $\frac{1}{2}$ mile is
S. $0^{\circ} 4'$ E., 39.92 chs.
Land, broken, mts.
Soil, 3rd. rate, stony. barren.
Scattering greasewood, cacti.

Jan. 9, 1911..

Retracement of East Boundary of T. 21 N., R. 17 W.

71.

Chains.

- April 3, 1911.
At 3h a.m., l.m.t., at the cor. of secs. 19, 24, 25 & 30,
as heretofore described,
I set off $5^{\circ}4'N$ on the decl. arc, and $35^{\circ}11'N$ on the
lat. arc, and determine a true meridian with the solar.
Thence I run,
North, on E. bdy. sec. 24.
Over rough, broken, mts. stony land.
- 3.65 Wash, 50 lks. wide, course SW., asc. SE. slope.
16.00 Top of SE. slope, thence along E. slope.
24.00 Desc. NE. slope.
28.60 Canyon, 150 lks. wide, 50 ft. deep, course SE., same as
above wash, asc. prec.
40.02 Remains of orig. $\frac{1}{4}$ sec. cor. on line, nearly obliterated.
I re-establish same in original position,
Set a malapais stone $24 \times 10 \times 10$ ins., on bed-rock, in mound
of stone for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face, and
raise a mound of stone 3 ft. base, 2 ft. high W. of cor.
Continue my measurement alinement North.
- 43.00 Asc. abrupt.
50.00 Top of bluff, brs. NW. & SE., asc.
59.00 Top of 2nd rim of mesa, brs. E. & W. 400 ft. above valley.
64.75 E. rim of mesa, brs. NW. & SE., desc. prec.
67.00 Gulch 50 lks. wide, course E., near head, asc.
72.00 E. rim of mesa, brs. NE. & SW., thence on mesa.
74.50 NE. rim of mesa, brs. NW. & SE., desc. prec.
79.00 Foot of main slope, brs. NW. & SE., desc. grad. in valley.
81.77 Remains of orig. cor. of sec. 13, 18, 19 & 24, brs. W. 35
lks. dist., which is a post 4×4 ins., 12 ins. above ground,
marked and witnessed as described by the Surveyor Gen.
This cor. being in a dilapidated condition, and the
marking almost obliterated, I destroy, and in orig. position,
Set a granite stone $24 \times 10 \times 8$ ins. ~~18~~ ins. in the ground
marked with 3 notches on N. & S. edges, & raise md. of stone 2 ft.
base, $1\frac{1}{2}$ ft. high W. of cor.
True course & dist. of this $\frac{1}{2}$ mile is $N. 0^{\circ} 29' W. 41.75$ chs.
Land, mts., broken.
Soil, 3rd rate, stony, gravelly. barren in places.
Sparse greasewood, cacti, native grass.

- From the cor. above described, I run,
North, on East Bdy. sec. 13 .
Over gently rolling valley, desc. grad.
- 10.77 Wash, 20 lks. wide, course NE.
20.82 Road, brs. NW. & SE.
40.00 Orig. $\frac{1}{4}$ sec. cor., brs. W. 18 lks. dist., which is a
malapais stone $8 \times 5 \times 6$ ins. above ground, marked and
witnessed as described by the Surveyor General.
The true course and distance of this $\frac{1}{2}$ mile is
 $N. 0^{\circ} 15' W., 40.00$ chs.
From this cor. I run, continuing measurement,
North,
73.45 Road, brs. NE. & SW.
80.02 Orig. cor. of secs. 7, 12, 13 & 18, brs. W. 20 lks. dist.,
which is a malapais stone $8 \times 6 \times 4$ ins. above ground,
marked & witnessed as described by the Surveyor General.
Here I build a mound of stone 3 ft. base, 2 ft. high W.
of cor., original pits nearly obliterated,
The SE. cor. of a small house owned by W.E. Metcalf,
brs. $N. 80^{\circ} W. 150$ lks. dist.
The true course and distance of this $\frac{1}{2}$ mile is .
 $N. 0^{\circ} 17' W., 40.02$ chs.
Land, gently rolling.
Soil, 3rd rate, gravelly, sandy.
Sparse greasewood, sage brush. Good native grass.
At this cor. at noon, I set off $5^{\circ}7'N$ on the
decl. arc, and observe the sun on the meridian.
The resulting lat. is $35^{\circ}13'N$.

Chains.

From the last described cor., I run,
North, on East bdy. sec. 12.

Over gently undulating plain, drains to ESE.

- 40.00 Orig. $\frac{1}{4}$ sec. cor., brs. West, 30 lks. dist., which is a malapais stone 10x8x6 ins. above ground, marked and witnessed as described by the Surveyor General. Since this cor. is in a dilapidated condition, I re-mark and re-set same in original position, and dig pits 18x18x12 ins. N. & S. of cor. 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high W. of cor. The true course and distance of this $\frac{1}{2}$ mile is N. $0^{\circ} 26'$ W. 40.00 chs.

From this cor. I run, continuing measurement,
North,

- 80.01 Find faint remains of orig. cor. of secs. 1, 6, 7 & 12, 3 lks. to W., which I destroy, and at the original position of cor., I set a granite stone 20x10x10 ins. 15 ins. in the ground for cor. of secs. 1, and 12, marked with 6 notches on S. & 1 notch on N. edges, and dig pits 24x18x12 ins., crosswise on each line; N. & S. 3 ft., and W. of cor. 7 ft. dist., and raise a mound of earth 4 ft. base, 2 ft. high W. of cor. Land, gently undulating. Soil, 3rd rate, sandy, gravelly. Sparse greasewood, sage brush, cacti. Good native grass. True course and dist. last $\frac{1}{2}$ mile is N. $0^{\circ} 2'$ W. 40.01 chs.

From the cor. above described, I run,
North, on East bdy. sec. 1.

Over gently undulating plain.

- 40.02 Remains of orig. $\frac{1}{4}$ sec. cor. brs. W. 40 lks. dist., which is a malapais stone 14x10x6 ins. above ground, marked and witnessed as described by the Surveyor Gen. This cor. being in a dilapidated condition, and the markins nearly obliterated, I remark same, $\frac{1}{4}$ on W. face, & dig pits 18x18x12 ins. N. & S. of cor. 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high W. of cor. The true course and distance of this $\frac{1}{2}$ mile is N. $0^{\circ} 36'$ W., 40.02 chs.

From this $\frac{1}{4}$ sec. cor. I run, continuing measurement,
North,

- 77.00 Wash, 50 lks. wide, course ESE.
81.15 Find remains of orig. cor. of Tps. 21 & 22 N., Rs. 16 & 17 W., 110 lks. to E., which is an old post, marked and witnessed as described by the Surveyor General. As this corner is in a very dilapidated condition, and the markings almost obliterated, and the cor. post badly decayed, I destroy same, and at orig. cor. point, set a granite stone 24x10x8 ins. 18 ins. on the ground for cor. of Tps. 21 & 22 N., R. 17 W., marked with 6 notches on N., S., & W. edges, and raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high W. of cor. No bearings available. Pits impracticable. The true course and distance of this last $\frac{1}{2}$ mile is N. $1^{\circ} 32'$ E., 41.14 chs.

Land, gently rolling.

Soil, 3rd rate, sandy, gravelly.

Sparse greasewood, cacti. Good native grass.

April 3, 1911.

General Description.

The East bdy. of T. 21 N., R. 17 W. runs over a rough broken, or rolling country. The land along near this line is of little value except for grazing purposes. There is no water or timber on or near the line.

Jesse B. Wright U.S. Surveyor.

Retracement of East Boundary of T. 22 N., R. 17 W.

73.

Chains

April 4, 1911.
 At 8h a.m., l.m.t., at the cor. of Tps. 21 & 22 N., R. 17 W.,
 as re-established by me, and just described.
 I set off 5° 27' N. on the decl. arc, and 35° 15' N. on the
 lat. arc, and determine a true meridian with the solar.
 Thence I run,
 North, on East bdy. sec. 36.
 Over gently undulating valley.
 13.40 Wash, 30 lks. wide, course ESE.
 16.20 Telephone line, brs. N. 10° E. & S. 10° W.
 19.00 Valley road, brs. NNE. & SSW.
 39.00 Wash, 20 lks. wide, course E.
 40.00 Faint remains of old $\frac{1}{4}$ sec. cor. on line, which I destroy,
 and in original position of $\frac{1}{4}$ sec. cor., I
 Set a granite stone 24x14x12 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 2 ft. base, $1\frac{1}{2}$ ft. high W. of cor.
 No bearings available. Pits impracticable.
 50.00 Asc. SE. slope.
 56.00 Top of rocky point, brs. E. & W., ends 5 chs. to E.
 62.00 Desc. NE. slope.
 67.00 Foot, brs. NW. & SE. desc. grad.
 69.30 Valley road, brs. NNW. & SSE.
 71.00 Telephone line, brs. NNW. & SSE.
 79.90 Find faint remains of orig. cor. of secs. 25, 30, 31 & 36,
 on line, which I destroy, and in orig. position of cor.,
 Set a malapais stone 24x14x10 ins. 18 ins. in the ground
 for cor. of secs. 25 & 36, T. 22 N., R. 17 W., marked
 with 5 notches on N., & 1 notch on S. edges, and
 raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high W. of cor.
 Land, rolling.
 Soil, 3rd rate, sandy, gravelly, stony.
 Sparse greasewood, cacti, sage brush. Fair grass.

North, on East bdy. sec. 25 .
 Over gently undulating valley.
 39.25 Road, brs. WNW. & ESE., Berry Station to Valley Ranch.
 40.05 Find faint remains of old $\frac{1}{4}$ sec. cor. on line, which I
 destroy, and in orig. position of old cor., I
 Set a granite stone 20x10x10 ins. 15 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.
 43.30 Wash, 50 lks. wide, course ESE.
 53.50 Valley Ranch, owned by Clark Brothers, brs. W., about 30
 chs. dist.
 79.98 Find faint remains of orig. cor. of secs. 19, 24, 25 & 30,
 $\frac{1}{2}$ lk. E. of line, which I destroy, and in orig. position
 of old cor., I
 Set a granite stone 24x15x10 ins. 18 ins. in the ground
 for cor. of secs. 24 & 25, T. 22 N., R. 17 W., marked
 with 4 notches on N., and 2 notches on S. edges, and
 raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high W. of cor.
 Land, gently rolling.
 Soil, 3rd rate, sandy.
 Sparse greasewood, few mesquite. Sparse grass.

Chains.

- North, on East bdy. sec. 24.
Over gently undulating plain.
- 34.00 Old road, brs. WNW. & ESE.
- 38.50 Find old $\frac{1}{4}$ sec. cor. on line, marked as described by the Surveyor General.
I re-mark the stone $\frac{1}{4}$ on W. face, and raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high W. of cor.
- 39.73 Wash, 20 lks. wide, course ESE.
- 54.00 Wash, 20 lks. wide, course ESE.
- 78.25 Find remains of old cor. of secs. 13, 18, 19 & 24, on line, a postmarked as described by the Surveyor General.
This cor. being in a very dilapidated condition, and the markings nearly obliterated, I destroy, and at the point of the orig. cor., I
Set a granite stone 20x10x10 ins. 15 ins. in the ground for cor. of secs. 13 & 24, marked with 3 notches on N. & S. edges,
dig pits 24x24x12 ins., in each sec. 6 ft. dist., and raise a mound of earth 4 ft. base, 2 ft. high W. of cor.
Land, level, gently rolling.
Soil, 3rd rate, sandy, gravelly.
Sparse greasewood, cacti. Good native grass.
At this cor. at noon, I set off $5^{\circ} 30'$ N. on the decl. arc, and observe the sun on the meridian.
The resulting lat. is $35^{\circ} 18'$ N.
-
- North, on East bdy. sec. 13 .
Over gently rolling plain.
- 39.98 Find remains of old $\frac{1}{4}$ sec. cor. 49 lks. to E. of line, which I destroy, and in orig. position of cor., I
Set a granite stone 24x14x12 ins. 18 ins. in the ground for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face, and dig pits 18x18x12 ins. N. & S. of cor. 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high W. of cor.
The true course and distance of this $\frac{1}{2}$ mile is N. $0^{\circ} 42'$ E., 39.98 chs.
From this cor. I run, measuring from cor.,
North,
- 6.35 Wash, 20 lks. wide, course E.
- 39.98 Find remains of orig. section cor. 49 lks. to E. of line, which I destroy, and in orig. position of cor., I
Set a granite stone 24x15x10 ins., 18 ins. in the ground for cor. of secs. 12 & 13, T. 22 N., R. 17 W., marked with 2 notches on N., and 1 notch on S. edges,
dig pits 24x24x12 ins. in each sec. 6 ft. dist., and raise a mound of earth 4 ft. base, 2 ft. high W. of cor.
The true course and dist. this $\frac{1}{2}$ mile is N. $0^{\circ} 42'$ E. 39.98 chs.
Land, gently rolling, level, drains to E.
Sparse greasewood, cacti, sage brush, few mesquite.
Good native grass.

Retracement of East Boundary of T. 22 N., R. 17 W.

75

Chains.

North, on East bdy. sec. 12.
Over gently rolling land, drains to E.
14.50 Wash, 50 lks. wide, course ENE.
40.02 Find remains of old $\frac{1}{4}$ sec. cor. 11 lks. to E. of line,
which I destroy, and in the orig. position of cor., I
Set a granite stone 20x10x10 ins. 15 ins. in the ground
for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face, and
dig pits 18x18x12 ins. N. & S. of cor. 3 ft. dist., and
raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high W. of cor.
The true course and distance of this $\frac{1}{2}$ mile is
N. $0^{\circ} 9'$ E., 40.02 chs.
From the above described $\frac{1}{4}$ sec. cor., I run,
North, measuring from $\frac{1}{4}$ sec. cor.
9.67 Wash, 30 lks. wide, course E.
39.98 Find faint remains of orig. sec. corner 11 lks. to E. of
line, which I destroy, and in orig. position of cor., I
Set a malapais stone 24x14x10 ins. 18 ins. in the ground
for cor. of secs. 1 & 12, T. 22 N., R. 17 W., marked
with 1 notch on N., and 5 notches on S. edges, and
raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high W. of cor.
The true course and distance of this last $\frac{1}{2}$ mile is
N. $0^{\circ} 9'$ E.; 39.98 chs.
Land, gently rolling.
Soil, 3rd rate, sandy, gravelly.
Sparse greasewood, cacti, sage brush, tesselata.
Good native grass.

North, on East bdy. sec. 1.
2.00 Gulch 50 lks. wide, course SE., near head, asc. steep.
12.00 Top of rim, brs. SE. & NW., asc.
16.00 Top of spur, brs. SE. & NW., ends 10 chs. SE.
18.00 Desc.
35.00 Low flat saddle, brs. NE. & SW., butte 60 ft. high, 10 chs.
to NE., desc. grad.
40.00 Find faint remains of orig. $\frac{1}{4}$ sec. cor. 2 lks. to E. of
line, which I destroy, and at the orig. cor. point, I
Set a granite stone 24x10x10 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 2 ft. base, $1\frac{1}{2}$ ft. high W. of cor.
True course of this $\frac{1}{2}$ mile is N. $0^{\circ} 2'$ E.
From this cor. I run
North, continuing measurement.
42.00 Wash, 120 lks. wide, course ENE.
56.50 Wash, 40 lks. wide, course ESE., asc. grad.
80.03 Find evident remains of orig. cor. of Tps. 22 & 23 N.,
Rs. 16 & 17 W., 3 lks. to E. of line, which I destroy,
and at the original cor. point, I
Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in
the ground for cor. of Tps. 22 & 23 N., R. 17 W.,
marked on brass cap,
T. 23 N., S. 31; S. 6, T. 22 N.; R. 16 W.,
in E., and
R. 17 W. in W. half,
T. 23 N., S. 36 in NW., and
S. 1, T. 22 N. in SW. quadrants,
raise a mound of stone 3 ft. base, 2 ft. high W. of cor.
No bearings available. Pits impracticable.
The true course and distance of this last $\frac{1}{2}$ mile is
N. $0^{\circ} 2'$ E., 40.03 chs.
Land, rolling, mts.
Soil, 3rd rate, gravelly, sandy, stony.
Sparse greasewood, mesquite, cacti. Good grass in places.
April 4, 1911.

General Description.

The East boundary of T. T. 22 N., R. 17 W., runs over a
gently rolling or undulating valley, near the East foot-
hills of the Cerbat Mountains. There is no water or
timber on the line.

Jesse B. Wright U.S. Surveyor.

Boundaries of T. 21 N., R. 16 W.
 Latitudes, Departures, and closing errors.

Line Designated.	True bearing.	Distance.	Latitudes.		Departures.	
			N.	S.	E.	W.
		Chs.	Chs.	Chs.	Chs.	Chs.
5th Std. Par. N.	West, -----	528.65	-----	-----	-----	528.65
W. bdy.	North, -----	23.80	23.80	-----	-----	-----
E. Bdy. T. 21 N. R. 17 W.	N. 0° 4' W. ---	39.92	39.92	-----	-----	.04
	N. 0° 21' W. ---	40.53	40.53	-----	-----	.25
	North, -----	40.24	40.24	-----	-----	-----
	N. 1° 0' E. ---	39.06	39.06	-----	.68	-----
	North, -----	40.02	40.02	-----	-----	-----
	N. 0° 29' W., -	41.75	41.75	-----	-----	.35
	N. 0° 15' W. ---	40.00	40.00	-----	-----	.18
	N. 0° 17' W., -	40.02	40.02	-----	-----	.20
	N. 0° 26' W. ---	40.00	40.00	-----	-----	.30
	N. 0° 2' W. ---	40.01	40.01	-----	-----	.02
	N. 0° 36' W. ---	40.02	40.02	-----	-----	.42
	N. 1° 32' E. ---	14.61	14.60	-----	.39	-----
North, Bdy. ---	East, -----	529.95	-----	-----	529.95	-----
East Bdy. ---	South, -----	480.00	-----	480.00	-----	-----
	Convergency, -----	-----	-----	-----	.57	-----
			479.97	480.00	531.59	530.41
			479.97		530.41	
	Error in lat. -----			.03		
	Error in dep. -----				1.18	

Chains.

April 17, 1911.

Inasmuch as there are no subdivisional lines E. or W. of the range line bet. Tps. 23 & 24 N., Rs. 16 & 17 W., and it is evident that many of the corners thereon have been destroyed or obliterated, in order to properly close the subdivisional lines of T. 23 N., R. 16 W. on this line, I find it is necessary to re-survey same.

Therefore, at 9h a.m., l.m.t., at the cor. of Tps. 22 & 23 N., R. 17 W., as recently re-established by me, and heretofore described,

I set off $10^{\circ}15'$ N. on the decl. arc, and $35^{\circ}20'$ N. on the lat. arc, and determine a true meridian with the solar. Thence I run, as per instructions,

North, on East bdy. sec. 36.

Over gently rolling land.

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

Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S. 36 in W. half,

dig pits 18x18x12 ins. N. & S. of cor. 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high W. of cor.

50.96 Wash, 20 lks. wide, course E.

57.80 Wash, 50 lks. wide, course E.

73.00 Wash, 40 lks. wide, course ESE.

80.00 Cor. point falls in wash 3 chs. wide, course SE.

No trace of orig. cor. found after diligent search.

82.00 Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for witness cor. to cor. of secs. 25 & 36, marked on brass cap, W.C., N. of centre

T. 23 N. in N., and

R. 16 W., S. 30, S. 31 in E. half,

R. 17 W., S. 36 in SW., and

S. 25 in NW. quadrants,

dig pits 24x24x12 ins., in each sec. 6 ft. dist.,

., and

raise a mound of earth 4 ft. base, 2 ft. high W. of cor.

Land, rolling.

Soil, 3rd rate, sandy, gravelly.

Scattering greasewood, sage brush. Good grass.

From true cor. point, North on E. bdy. of sec. 25.

Over rolling land.

2.00 Witness corner.

40.00 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap,

$\frac{1}{4}$ S. 25 in W. half,

dig pits 18x18x12 ins. N. & S. of cor. 3 ft. dist., and

raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high W. of cor.

40.78 Find faint remains of old cor. 64 lks. E. of line, which I destroy.

45.00 Wash, 20 lks. wide, course E.

50.00 Old road, brs. E. & W.

59.10 Wash, 50 lks. wide, course ESE., asc. SW. slope.

79.50 Top of W. point of spur, brs. W. & E., desc.

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

Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of secs. 24 & 25, marked on brass cap,

T. 23 N. in N., and

R. 16 W., S. 19, S. 30 in E. half,

R. 17 W., S. 25 in SW., and

S. 24 in NW. quadrants,

dig pits 24x24x12 ins., in each sec. 6 ft. dist., and

raise a mound of earth 4 ft. base, 2 ft. high W. of cor.

Land, rolling.

Soil, 3rd rate, sandy, gravelly, stony.

Good native grass. scattering tesselata, greasewood.

Chains.

North, on East bdy. sec. 24. *Descending*

10.00 Asc. grad. along W. slope of granite ridge, near foot.

20.00 Asc. steeper.

27.00 Top of spur, brs. NW. & SE., desc.

30.00 Foot, brs. NW. & SE.

40.00 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S. 24 in W. half, raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high W. of cor.

41.00 Faint remains of old cor. 80 lks. to W. of line, which I destroy. asc. grad.

42.00 Top of knoll, brs. E. & W., desc. grad.

48.00 Wash, 150 lks. wide, course ENE.

51.00 Asc.

60.00 Top of W. end of hill, brs. WSW. & ENE., desc.

70.00 Foot, brs. NE. & SW., desc. grad.

76.00 Wash, 40 lks. wide, course NE., asc. grad.

80.00 Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of secs. 13 & 24, marked on brass cap,

T. 23 N. in N., and
R. 16 W. S. 18, S. 19 in E. half,
R. 17 W. S. 24 in SW., and
S. 13 in NW. quadrants,

dig pits 24x24x12 ins. in each sec. SW. & NW., of cor. 6 ft. dist., and
raise a mound of earth 4 ft. base, 2 ft. high W. of cor.

No bearings available.
Land, rolling, mts.,
Soil, 3rd rate, sandy, gravelly, stony.
Scattering greasewood, tesseta, good native grass.

North, on East bdy. sec. 13.

Over rolling land.

2.30 Find faint remains of old cor. 130 lks. to E., which I destroy.

12.12 Old road, brs. NNE. & SSW.

20.00 Foot of butte, brs. E. & W., asc.

30.38 Top of rocky butte, brs. E. & W., desc. prec.

39.00 Foot, brs. E. & W., desc. grad.

40.00 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S. 13 in W. half, dig pits 18x18x12 ins. N. & S. of cor. 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high W. of cor.

58.90 Wash, 30 lks. wide, course NE.

80.00 Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of secs. 12 & 13, marked on brass cap,

T. 23 N. in N., and
R. 16 W. S. 7, S. 13, in E. half,
R. 17 W., S. 13 in SW., and
S. 12 in NW. quadrants,

dig pits 24x24x12 ins., in each sec. SW. & NW. of cor. 6 ft. dist., and
raise a mound of earth 4 ft. base, 2 ft. high W. of cor.

Land, rolling, mts.
Soil, 3rd rate, sandy, gravelly, stony.
Scattering greasewood, tesseta, good native grass.
At this cor. at noon, clouds obscure the sun.
Impracticable to observe the lat.

Chains.

- North, on East bdy. sec. 12.
Over rolling or mts. land,
- 2.00 Find faint remains of old cor. 55 lks. to W. of line,
which I destroy.
- 4.00 Asc.
- 10.00 Knoll, brs. E. & W., desc.
- 15.00 Wash, 150 lks. wide, course E., turns N. at 15 chs. E.,
- 20.00 Asc. steep.
- 35.00 Top of E. end of rough, rocky ridge, brs. E. & W.
E. end of same is about 12 chs. to E. desc. grad.
- 40.00 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in
the ground for $\frac{1}{4}$ sec. cor., marked on brass cap,
 $\frac{1}{4}$ S. 12 in W. half,
raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high W. of cor.
- 46.00 Foot of slope, brs. NNW. & SE., thence along near foot of
E. slope.
- 80.00 Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in
the ground for cor. of secs. 1 & 12, marked on
brass cap,
T. 23 N., in N. and
R. 16 W., S. 6, S. 7 in E. half,
R. 17 W. S. 12 in SW., and
S. 1 in NW. quadrants,
raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high W. of cor.
- Land, rolling, mts.
Soil, 3rd rate, gravelly, stony.
Scattering greasewood, cacti. Fair grass in draws.

- North, on East bdy. sec. 1.
Over mts. land, along near foot of E. slope.
- 3.10 Find remains of orig. cor. 160 lks. to W. of line,
which I destroy.
- 14.00 Head of wash, course ESE. asc.
- 28.00 Top of ridge, brs. E. & W., low saddle is 5 chs. E. over
which road crosses., desc. NE. slope.
- 40.00 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in
the ground for $\frac{1}{4}$ sec. cor., marked on brass cap,
 $\frac{1}{4}$ S. 1 in W. half,
raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high W. of cor.
- 48.00 Foot of main slope, brs. NW. & SE., enter flat.
- 49.50 Dim road, brs. NNW. & SSE.
- 62.84 Same road, brs. NNE. & SSW.
- 75.55 Wash, 80 lks. wide, course NE. for 3 chs., thence N. $\frac{1}{4}$ mile,
thence NE.
- 80.00 Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in
the ground for cor. of Tps. 23 & 24 N., R. 17 W.,
marked on brass cap,
R. 17 W., in W., and
R. 16 W., T. 24 N., S. 31; S. 6, T. 23 N., in
E. half,
T. 23 N., S. 1 in SW., and
T. 24 N., S. 36 in NW. quadrants,
dig pits 30x24x12 ins. N. & S. of cor. 4 ft., and W. of
cor. 8 ft. dist., and
raise a mound of earth 5 ft. base, $2\frac{1}{2}$ ft. high W. of cor.
- No trace of the old Tp. cor. found after diligent search.
- Land, rolling, mts.
Soil, 3rd rate, stony, gravelly.
Sparse greasewood, tesseta, fair grass in valley or draws.
- April 17, 1911.

General Description.

The East Boundary of T. 23 N., R. 17 W., runs over a smooth or rolling country near the East foot of the E. slope of the Cerbat Mountains. The land is in general, sandy, or gravelly, and covered with a good growth of native grass. There is no water or timber on the line.

Joseph B. Wright U.S. Surveyor.

Chains

April 18, 1911.

At 8h a.m., l.m.t., at the cor. of Tps. 23 & 24 N., R. 17 W., I set off 10°36' N. on the decl. arc, and 35°25' N. on the lat. arc, and determine a true meridian with the solar. Thence I run, as per instructions.

North, on East bdy. sec. 36, T. 24 N., R. 17 W.

Over broken, rolling land, along near foot of main slope of Cerbat Mountains, through scattering greasewood, cacti, good native grass in draws and in valley to E.

15.00 Wash, 40 lks. wide, course NE.

40.00 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for 1/4 sec. cor., marked on brass cap, 1/4 S. 36 in W. half,

dig pits 18x18x12 ins. N. & S. of cor. 3 ft. dist., and raise a mound of earth 3 1/2 ft. base, 1 1/2 ft. high W. of cor.

41.70 Wash, 40 lks. wide, course ESE.

77.00 Wash, 50 lks. wide, course NE.

80.00 Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of secs. 25 & 36, marked on brass cap,

T. 24 N. in N., and
R. 16 W., S. 30, S. 31, in E. half,
R. 17 W. S. 36 in SW., and
S. 25 in NW. quadrants,

dig pits 24x24x12 ins. in each sec. 6 ft. dist., and raise a mound of earth 4 ft. base, 2 ft. high W. of cor.

Land, rolling.

Soil, 3rd rate, gravelly, sandy.

Scattering greasewood, tesseta, cacti. Good grass.

No trace of any old corners found at this cor., or at any of the corners on this line North of this point.

North, on East bdy. sec. 25.

Over broken, mts. land.

8.00 Wash, 200 lks. wide, course NE. asc.

18.28 Top of spur, brs. E. & W., ends 5 chs. to E., desc.

24.00 Draw 2 chs. wide, course E., asc.

28.00 Top of rocky spur, brs. E. & W., ends 6 chs. E., desc. prec.

33.00 Foot, brs. E. & W.

40.00 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for 1/4 sec. cor., marked on brass cap, 1/4 S. 25 in W. half,

dig pits 18x18x12 ins. N. & S. of cor. 3 ft. dist., and raise a mound of earth 3 1/2 ft. base, 1 1/2 ft. high W. of cor.

42.00 Asc.

46.90 Top of spur, brs. E. & W., ends 10 chs. E., desc.

58.00 Foot, brs. E. & W. thence along near foot of E. slope.

64.00 Asc.

72.00 Top of spur, brs. E. & W., ends 20 chs. to E., desc.

79.00 Foot, brs. E. & W., desc. grad.

80.00 Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of secs. 24 & 25, marked on brass cap,

T. 24 N. in N., and
R. 16 W., S. 19, S. 30, in E. half,
R. 17 W. S. 25 in SW., and
S. 24 in NW. quadrants,

dig pits 24x24x12 ins. in each sec. 6 ft. dist., and raise a mound of earth 4 ft. base, 2 ft. high W. of cor.

Land, rolling, broken, mts.

Soil, 3rd rate, gravelly, stony.

Scattering greasewood, tesseta, cacti. Good grass in draws.

Chains	
	North, on East bdy. Sec. 24. Over rolling, broken land, desc. grad.
18.00	Wash, 150 lks. wide, course ENE., asc. prec.
25.50	Top of high rocky spur, brs. E. & W., ends 15 chs. to E., desc. prec.
40.00	Foot of steep slope, brs. ESE. & WNW. Set an iron post 5 ft. long, 1 in. in diam. 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S. 24 in W. half, raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high W. of cor.
68.43	Dim road, brs. NW. & SE., Thompson's ranch to Kingman.
74.73	Wash, 50 lks. wide, course NE.
80.00	Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of secs. 13 & 24, marked on brass cap, T. 24 N. in N., and R. 16 W., S. 18, S. 19 in E. half, R. 17 W., S. 24 in SW., and S. 13 in NW. quadrants, dig pits 24x24x12 ins. in each sec. 6 ft. dist., and raise a mound of earth 4 ft. base, 2 ft. high W. of cor.
	Land, rolling, mts., broken. Soil, 3rd rate, gravelly, stony. Sparse greasewood, cacti, tesseta. Good grass in draws.
	North, on East bdy. sec. 13. Over heavily rolling, broken land., asc. grad.
12.00	Rocky knoll, brs. E. & W., desc. grad.
20.50	Road, brs. NW. & SE., thence over smooth rolling land, drains to NE.
39.75	Wash, 40 lks. wide, course NE.
40.00	Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S. 13 in W. half, dig pits 18x18x12 ins. N. & S. of cor. 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high W. of cor.
68.00	Wash, 40 lks. wide, course ENE.
80.00	Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of secs. 12 & 13, marked on brass cap, T. 24 N., in N., and R. 16 W., S. 7, S. 18, in E. half, R. 17 W., S. 13 in SW., and S. 12 in NW. quadrants, dig pits 24x24x12 ins. in each sec. 6 ft. dist., and raise a mound of earth 4 ft. base, 2 ft. high W. of cor.
	Land, rolling. Soil, 3rd rate, gravelly, sandy. Sparse greasewood, good native grass. At this cor. at noon, I set off $10^{\circ}39'$ N. on the decl. arc, and observe the sun on the meridian. The resulting lat. is $35^{\circ}29'N$.

Chains.

- North, on East bdy. sec. 12.
Over gently rolling land, drains to NE.
- 40.00 Point for $\frac{1}{4}$ sec. cor. falls in wash 80 lks. wide, course ENE.
- 41.00 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for witness cor. to $\frac{1}{4}$ sec. cor., marked on brass cap,
W.C. $\frac{1}{4}$, N. of centre, and
S. 12 in NW. quadrants,
dig pits 18x18x12 ins. N. & S. of cor. 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high W. of cor.
- 43.00 Wash, 40 lks. wide, course E.
- 50.00 NW. end of long malapais ridge, brs. E. about 20 chs.
- 80.00 Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of secs. 1 & 12, marked on brass cap,
T. 24 N., in N., and
R. 16 W., S. 6, S. 7 in E. half,
R. 17 W., S. 12 in SW., and
S. 1 in NW. quadrants,
dig pits 24x24x12 ins. in each sec. 6 ft. dist., and raise a mound of earth 4 ft. base, 2 ft. high W. of cor.
- Land, gently rolling.
Soil, 3rd rate, sandy, gravelly.
Sparse greasewood, sage brush, dense coarse bunch grass.

- North, on East bdy. Sec. 1.
Over gently undulating plain.
- 40.00 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap,
 $\frac{1}{4}$ S. 1 in W. half,
dig pits 18x18x12 ins. N. & S. of cor. 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high W. of cor.
- 65.40 Intersect 6th Standard Parallel North, at a point, whence Std. cor. of Tps. 25 N., Rs. 16 & 17 W., as heretofore re-established and described by me, in Book B.
brs. West, 14.89 chs. dist.
At the point of intersection, I
Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for closing cor. of Tps. 24 N., Rs. 16 & 17 W., marked on brass cap,
C.C., S. of centre,
T. 25 N., R. 16 W., S. 31, R. 17 W., S. 36, in N.,
and T. 24 N. in S. half,
S. 6, R. 16 W. in SE., and
S. 1, R. 17 W. in SW. quadrants,
dig pits 30x24x12 ins., crosswise on each line, E. & W., 4 ft., and S. of cor. 8 ft. dist., and raise a mound of earth 5 ft. base, $2\frac{1}{2}$ ft. high S. of cor.
- Land, gently rolling. Soil, 3rd rate, sandy.
Sparse greasewood, sage brush. Good native grass.
April 18, 1911.

- General Description. -

The East Boundary of T. 24 N., R. 17 W., runs over a broken or rolling country, cutting across the East points of the ridges and spurs from the E. slope of the Cerbat Mountains. The land is in general, sandy, or gravelly, and stony in places.

There is no water or timber on or near the line. The soil is covered with a good growth of native grass and is valuable for grazing purposes only, especially to the west of the line.

The NE. portion of T. 24 N., R. 17 W., should be subdivided.

Jesse B. Wright
U. S. Surveyor.

84. Resurvey of East Boundary of Township 23 North, Range 15 West.

Chains.

April 19, 1911.

At 8h.a.m., l.m.t., at cor. of Tps. 22 and 23 N., Rs. 14 and 15 W., heretofore described, I set off 10°57' N. on the decl. arc; and 35°20' N. on the lat. arc, and determine a true meridian with the solar. Thence I run as per instructions, on range line North, bet. secs. 31 and 36.

Var. 15°20' E.

Over mountainous, rolling land, descend.

- 3.00 Foot of NE. slope, brs. NW. and SE,
- 4.00 Wash, 80 lks. wide, course WNW.
- 9.62 Wash, 50 lks. wide, course W.
- 19.27 Wash, 40 lks. wide, course WSW.
- 24.00 Wash, 20 lks. wide, course W.
- 34.00 Wash, 20 lks. wide, course WSW.
- 40.00 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 36 in W., and S 31 in E. half; raise a mound of stone 2 ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor.
- 46.40 Wash, 10 lks. wide, course WNW.
- 49.00 Wash, 50 lks. wide, course W.
- 62.00 Wash, 20 lks. wide, course WSW.
- 73.10 Wash, 15 lks. wide, course WSW.
- 80.00 Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in the ground for cor. of secs. 25, 30, 31 and 36, marked on brass cap, T 23 N in N. half, R 15 W S 25 in NW., R 14 W S 30 in NE., S 31 in SE., and S 36 in SW. quadrants; 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, broken, rolling.

Soil, 3rd rate, sandy, stony, gravelly.

Scattering greasewood, tesseta, cacti. Good native grass.

North, bet. secs. 25 and 30.

Over rolling land.

- 12.25 Wash, 30 lks. wide, course WNW.
- 30.00 Wash, 30 lks. wide, course W.
- 36.00 Wash, 50 lks. wide, course WSW.
- 40.00 Wash, 80 lks. wide, course W,
- 41.00 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for witness cor. to $\frac{1}{4}$ sec. cor., marked on brass cap, W C $\frac{1}{4}$ N of centre, S 25 in NW., and S 30 in NE. quadrants; raise a mound of stone 2 ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor.
- 43.45 Wash, 30 lks. wide, course WSW.
- 51.75 Wash, 20 lks. wide, course W.
- 80.00 Wash, 50 lks. wide, course W.
- 81.00 Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in the ground for witness cor. to cor. of secs. 19, 24, 25 and 30, marked on brass cap, W C N. of centre, T 23 N in N. half, and S 25 S 30 in S. half; R 15 W, S 24 in NW., and R 14 W S 19 in NE. quadrants; raise a mound of stone 2 ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor.

Land, rolling, broken.

Soil, 3rd rate, sandy, gravelly.

Scattering greasewood, cacti, tesseta; good grazing.

Chains	
	North, bet. secs. 19 & 24., from cor. point in wash.
1.00	Wit. corner. Over rolling broken land.
20.30	Wash, 80 lks. wide, course WNW.
31.00	Wash, 80 lks. wide, course W.
37.76	Wash, 50 lks. wide, course WSW.
40.00	Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S. 24 in W., and S. 19 in E. half, raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high W. of cor.
41.25	Wash, 20 lks. wide, course W.
44.54	Wash, 20 lks. wide, course WSW.
80.00	Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of secs. 13, 18, 19 & 24, marked on brass cap, T. 23 N. in N. half, R. 15 W. S. 13 in NW., R. 14 W. S. 13 in NE., S. 19 in SE., and S. 24 in SW. quadrants, raise a mound of white quartz stones 3 ft. base, 2 ft. high W. of cor. No bearings available.
	Land, rolling, broken. Soil, 3rd rate, gravelly. Scattering cacti, tesseta. Good native grass in places. At this cor. at noon, I set off $11^{\circ} 0'$ N on the decl. arc, and observe the sun on the meridian. The resulting lat. is $35^{\circ} 22\frac{1}{2}'$ N.
	North, bet. secs. 13 & 18. Over rolling land.
31.00	Wash, 20 lks. wide, course WNW.
40.00	Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S. 13 in W., and S. 18 in E. half, dig pits $18 \times 18 \times 12$ ins. N. & S. of cor. 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high W. of cor.
66.60	Dim road, brs. NE. & SW.
71.00	Wash, 30 lks. wide, course W.
80.00	Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of secs. 7, 12, 13 & 18, marked on brass cap, T. 23 N. in N. half, R. 15 W. S. 12 in NW., R. 14 W. S. 7 in NE., S. 18 in SE., and S. 13 in SW. quadrants, dig pits $18 \times 18 \times 12$ 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, 3rd rate, sandy, gravelly. Scattering greasewood, tesseta, cacti. Good grazing.

Chains.

North, bet. secs. 7 & 12.
 Over rolling, broken land, along W. foothills.
 3.00 Wash, 50 lks. wide, course WNW.
 8.80 W. point of low spur, brs. W. & E., desc.
 10.15 Gulch, 50 lks. wide, course W.
 15.00 Gulch, 50 lks. wide, course W.
 18.90 Dim road, brs. E. & W.
 29.80 Wash, 40 lks. wide, course WSW. asc.
 36.00 Flat ridge, brs. WNW. & ESE., small butte on same 20 chs. to NW., desc. grad.
 40.00 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S. 12 in W., and S. 7 in E. half, dig pits 18x18x12 ins. N. & S. of cor. 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high W. of cor.
 40.40 Wash, 20 lks. wide, course WNW.
 69.00 Dim road, brs. NW. & SE.
 76.00 Wash, 20 lks. wide, course NW., thence along foot of SW. slope.
 80.00 On W. point of spur, brs. W. & E.
 Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in the ground for cor. of secs. 1, 6, 7 & 12, marked on brass cap, T. 23 N. in N. half, R. 15 W. S. 1 in NW., R. 14 W. S. 6 in NE., S. 7 in SE., and S. 12 in SW. quadrants, raise a mound of stone 3 ft. base, 2 ft. high, W. of cor.
 Land, broken, rolling. Soil, 3rd rate, gravelly. Scattering tesseta, cacti. Fair grass in places.

North, bet. secs. 1 & 6.
 Over mts., broken land, desc.
 6.00 Wash, 10 lks. wide, course NW.
 14.00 Asc. prec. SW. slope, over huge granite boulders.
 18.00 Top, and along W. slope. foot is 6 chs. to W.
 23.70 Desc. NW. slope.
 30.00 foot, brs. E. & W., desc. grad.
 40.00 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S. 1 in W., and S. 6 in E. half, raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high W. of cor.
 66.35 Old road, brs. NNE. & SSW.
 80.00 Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of Tps. 23 & 24 N., Rs. 14 & 15 W., marked on brass cap,
 T. 24 N. in N., S 36 in NW.,
 R. 14 W. in E., S 31 in NE.,
 T. 23 N. in S., and S 6 in SE. and
 R. 15 W. in W. half, S 1 in SW. quadrants;
 raise a mound of stone 3 ft. base, 2 ft. high, S. of cor.
 Land, rolling, broken, mts. Soil, 3rd rate, gravelly, stony. Scattering greasewood, cacti. Good grass in places.
 April 19, 1911.

General Description.

The East Boundary of T. 23 N., R. 15 W., runs over a broken, or mts. country, near the foot of the W. slope of the Peacock Mountains. The land is in general a loose, gravelly, or stony soil, and that to the East is of value only for grazing purposes. There is no water or timber on or near the line.

James B. Wright
 U.S. Surveyor.

Chains.

- April 20, 1911.
At 8h a.m., l.m.t., at the cor. of Tps. 23 & 24 N., Rs. 14 & 15 W., just described,
I set off $11^{\circ}17'$ N. on the decl. arc, and $35^{\circ}25'$ N. on the lat. arc, and determine a true meridian with the solar. Thence I run, as per instructions, on range line,
North, bet. secs. 31 & 36.
Over rolling land, desc. grad.
- 2.52 Telegraph line, NE. & SW.
3.52 Side track of R.R., brs. NE. & SW.
3.61 Centre of main track of Atchison, Topeka & Santa Fe R.R., on 4° curve, brs. NE. & SW. Antares Sta., about 20 chs. NE.
4.54 Telegraph line, brs. NE. & SW., parallel to R.R.
9.25 Road, brs. NE. & SW., follows along R.R.
19.09 Road, brs. E. & W.
30.26 Road, brs. NNW. & SSE.
40.00 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap,
 $\frac{1}{4}$ S. 36 in W., and
S. 31 in E. half,
dig pits $18 \times 18 \times 12$ ins. N. & S. of cor. 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high W. of cor. Chimney of Station house at Antares Sta., on R.R., brs. S. $26^{\circ}29'$ E.
80.00 Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of secs. 25, 30, 31 & 36, marked on brass cap,
T. 24 N. in N. half,
R. 15 W. S. 25 in NW.,
R. 14 W. S. 30 in NE.,
S. 31 in SE., and
S. 36 in SW. quadrants,
dig pits $18 \times 18 \times 12$ 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, 3rd rate, gravelly, sandy.
Sparse greasewood, cacti. Good native grass in places.
-
- North, bet. secs. 25 & 30.
Over rolling land, desc. grad.
- 36.00 Bottom of descent, asc. slightly.
40.00 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap,
 $\frac{1}{4}$ S. 25 in W., and
S. 30 in E. half,
dig pits $18 \times 18 \times 12$ ins. N. & S. of cor. 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 an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of secs. 19, 24, 25 & 30, marked on brass cap,
T. 24 N. in N. half,
R. 15 W. S. 24 in NW.,
R. 14 W. S. 19 in NE.,
S. 30 in SE., and
S. 25 in SW. quadrants,
dig pits $18 \times 18 \times 12$ 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, 3rd rate, sandy, gravelly.
Sparse greasewood, sage brush, cacti. Good grass.

Chains.	
	North, bet. secs. 19 & 24. Over rolling land, asc. grad.
4.00	Top of spur from butte, brs. E. & W., thence along E. slope, near foot.
15.50	Desc. NE. slope. Top of butte is 10 chs. to W.
40.00	Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S. 24 in W., and $\frac{1}{4}$ S. 19 in E. half, dig pits 18x18x12 ins. N. & S. of cor. 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high W. of cor. Thence over gently undulating plain, desc. grad.
80.00	Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of secs. 13, 18, 19 & 24, marked on brass cap, T. 24 N. in N. half, R. 15 W. S. 13 in NW., R. 14 W. S. 18 in NE., S. 19 in SE., and S. 24 in SW. quadrants, 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, 3rd rate, sandy, gravelly. Sparse greasewood, cacti. Good native grass.
	North, bet. secs. 13 & 18. Over rolling plain, desc. grad.
10.00	Foot of slope, enter valley, brs. NW. & SE.
40.00	Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S. 13 in W., and $\frac{1}{4}$ S. 18 in E. half, dig pits 18x18x12 ins. N. & S. of cor. 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high W. of cor. At this cor., at noon, l.m.t., I set off $11^{\circ}20'$ N. on the decl. arc, and observe the sun on the meridian. The resulting lat. is $35^{\circ}23'$ N. ✓
80.00	Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of secs. 7, 12, 13 & 18, marked on brass cap, T. 24 N., in N. half, R. 15 W. S. 12 in NW., R. 14 W. S. 7 in NE., S. 18 in SE., and S. 13 in SW. quadrants, dig pits 18x18x12 ins. in each sec. $5\frac{1}{2}$ ft. dist., and raise a mound of earth $4\frac{1}{2}$ ft. base, 2 ft. high W. of cor. Land, rolling, level. Soil, 3rd rate, sandy, loose, dry, fertile. Sparse greasewood, cacti. Good native grass.

Chains.

North, bet. secs. 7 & 12.
Over level plain, drains to NE.

40.00 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap,
 $\frac{1}{4}$ S. 12 in W., and
S. 7 in E. half,
dig pits 18x18x12 ins. N. & S. of cor. 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high W. of cor.

59.03 Road, Hackberry to Music Mountain, brs. NW. & SE.

80.00 Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of secs. 1, 6, 7 & 12, marked on brass cap,
T. 24 N. in N. half,
R. 15 W. S. 1 in NW.,
R. 14 W. S. 6 in NE.,
S. 7 in SE., and
S. 12 in SW. quadrants,
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, level.
Soil, 3rd rate, sandy, loose, fertile.
Sparse cacti, sage brush. Coarse dense bunch grass.

North, bet. secs. 1 & 6.
Over level plain, drains to N.

40.00 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap,
 $\frac{1}{4}$ S. 1 in W., and
S. 6 in E. half,
dig pits 18x18x12 ins. N. & S. of cor. 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high W. of cor.

69.55 Truxton wash, 4 chs. wide, course NW.

89.14 Intersect 6th Standard Parallel North, at a point, whence Std. cor. of secs. 31 & 32, on S. bdy. T. 25 N., R. 15 W., brs. East, 20.45 chs. dist., as re-established by me, and heretofore described, in Book B.
At the point of intersection, I
Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for closing cor. of Tps. 24 N., Rs. 14 & 15 W., marked on brass cap,
C.C., S. of centre,
T. 25 N., R. 15 W., S. 31, S. 32, in N. and
T. 24 N. in S. half,
S. 6, R. 14 W. in SE., and
S. 1, R. 15 W. in SW. quadrants,
dig pits 30x24x12 ins, crosswise on each line, E. & W., 4 ft., and S. of cor. 8 ft. dist., and raise a mound of earth 5 ft. base, $2\frac{1}{2}$ ft. high S. of cor.

Land, rolling, level.
Soil, 3rd rate, sandy, loose.
Sparse cacti, sage brush, fair grass.

April 20, 1911.

General Description.

The East Boundary of T. 24 N., R. 15 W., runs over a gently rolling valley, generally smooth and open. There is no water or timber on the line. The soil is in general a loose, sandy or gravelly texture fertile in the Northern 2 miles of land.

Jesse B. Wright
U. S. Surveyor.

Chains.

April 21, 1911.

At 8h a.m., l.m.t., at the cor. of Tps. 23 & 24 N., Rs. 14 & 15 W., as recently re-established by me, and heretofore described,

I set off $11^{\circ}38'N.$ on the decl. arc, and $35^{\circ}25'N.$ on the lat. arc, and determine a true meridian with the solar. Thence I run,

West, on a random line, on S. bdy. of Tp. 24 N., R. 15 W.

At 5 miles, 77.52 chs., I intersect the West Boundary of T. 24 N., R. 15 W., at a point 41 lks. N. of cor. of Tps. 23 & 24 N., Rs. 15 & 16 W.,

whence I run, as per instructions,

N. $89^{\circ}57' E.$, on a true line bet. secs. 6 & 31.

bet. Tps. 23 & 24 N., R. 15 W.,

Var. $15^{\circ}25' E.$

Over mts. land, asc.

5.50 Spur, brs. N. & S., desc.

17.50 Foot of main slope, brs. NW. & SE., desc. grad.

37.52 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S. 31 in N., and

S. 6 in E. half,

dig pits $18 \times 18 \times 12$ ins. E. & W. of cor. 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high N. of cor.

77.52 Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of secs. 5, 6, 31 & 32, marked on brass cap,

T. 24 N. in N.,

T. 23 N. in S., and

R. 15 W. in W. half,

S. 31 in NW.,

S. 32 in NE.,

S. 5 in SE., and

S. 6 in SW. quadrants,

dig pits $18 \times 18 \times 12$ 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, 3rd rate, sandy, gravelly.

Sparse greasewood, cacti. Good grass in valley.

N. $89^{\circ}57' E.$, bet. secs. 5 & 32.

Over gently rolling land, desc. gently.

7.45 Road, brs. N. & S.

40.00 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S. 32 in N., and

S. 5 in S. half,

dig pits $18 \times 18 \times 12$ ins. E. & W. of cor. 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high W. of cor.

Thence over level open valley, brs. N. & S.

80.00 Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of secs. 4, 5, 32 & 33, marked on brass cap,

T. 24 N. in N.,

T. 23 N. in S., and

R. 15 W. in W. half,

S. 32 in NW.,

S. 33 in NE.,

S. 4 in SE., and

S. 5 in SW. quadrants,

dig pits $18 \times 18 \times 12$ 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, level.

Soil, 3rd rate, sandy, heavy, some clay, dry, fertile.

Sparse cacti, sage brush, native grass.

Chains.

- N. $89^{\circ}57'$ E., bet. secs. 4 & 33.
 Over level valley, through dense cholla and pear cacti.
 40.00 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in
 the ground for $\frac{1}{4}$ sec. cor., marked on brass cap,
 $\frac{1}{4}$ S. 33 in N., and
 S. 4 in S. half,
 dig pits 18x18x12 ins. E. & W. of cor. 3 ft. dist., and
 raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high N. of cor.
 80.00 Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in
 the ground for cor. of secs. 3, 4, 33 & 34, marked on
 brass cap,
 T. 24 N. in N. half,
 T. 23 N. in S. half, and
 R. 15 W. in W. half,
 S. 33 in NW.,
 S. 34 in NE.,
 S. 3 in SE., and
 S. 4 in SW. quadrants,
 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, gently undulating, level.
 Soil, 3rd rate, sandy, gravelly, loose, heavy in places,
 dry, fertile, with some clay in places.
 Sparse grass, dense cacti.
 At this cor. at noon, I set off $11^{\circ}41'$ N. on the
 decl. arc, and observe the sun on the meridian.
 The resulting lat. is $35^{\circ}25'$ N.

- N. $89^{\circ}57'$ E., bet. secs. 3 & 34.
 Over level valley, through dense cholla & pear cacti.
 40.00 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in
 the ground for $\frac{1}{4}$ sec. cor., marked on brass cap,
 $\frac{1}{4}$ S. 34 in N., and
 S. 3 in S. half,
 dig pits 18x18x12 ins. E. & W. of cor. 3 ft. dist., and
 raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high N. of cor.
 69.63 Wash, 50 lks. wide, course NW., asc. slightly.
 leave dense cacti, grass fair.
 80.00 Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in
 the ground for cor. of secs. 2, 3, 34 & 35, marked on
 brass cap,
 T. 24 N. in N.,
 T. 23 N. in S., and
 R. 15 W. in W. half,
 S. 34 in NW.,
 S. 35 in NE.,
 S. 2 in SE., and
 S. 3 in SW. quadrants,
 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, level.
 Soil, 3rd rate, sandy, some clay, heavy in places, fertile.
 Sparse greasewood, cacti, good grass in places.

Chains.

N. 89°57' E., bet. secs. 2 & 35.
 Over gently rolling land, asc. grad.
 25.70 Wash, 20 lks. wide, course NW.
 40.00 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S. 35 in N., and $\frac{1}{4}$ S. 2 in S. half, dig pits 18x18x12 ins. E. & W. of cor. 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high N. of cor.
 65.50 Wash, 20 lks. wide, course WNW.
 80.00 Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of secs. 1, 2, 35 & 36, marked on brass cap,
 T. 24 N. in N.,
 T. 23 N. in S., and
 R. 15 W. in W. half,
 S. 35 in NW.,
 S. 36 in NE.,
 S. 1 in SE., and
 S. 2 in SW. quadrants,
 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, 3rd rate, sandy, gravelly, loose, dry.
 Sparse greasewood, cacti, sage brush. Good native grass.

N. 89°57' E., bet. secs. 1 & 36.
 Over gently rolling land, asc. grad.
 13.85 Old road, brs. NNE. & SSW.
 27.33 Old road, brs. NNE. & SSW.
 40.00 Set an iron post 3 ft. long, 1 ins. in diam. 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S. 36 in N., and $\frac{1}{4}$ S. 1 in S. half, dig pits 18x18x12 ins. E. & W. of cor. 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high N. of cor.
 47.32 Remains of old cor. of Tps. 23 & 24 N., Rs. 14 & 15 W., brs. N. 9.10 chs. dist., which I destroy. This old cor. being the only trace of any corners on the Tp. lines, of the orig. survey, found bet. 5th & 6th Std. parallels N., Rs. 14 & 15 W., in this valley.
 58.00 Main road, Hackberry To Kingman, brs. NE. & SW.
 73.56 Postal Telegraph line, brs. NE. & SW., parallel to R.R.
 75.00 Centre of Atchison, Topeka & Sante Fe R.R., on curve, of 4°, brs. N. 56° E. & S. 56° W., tangent.
 76.62 Western Union Telegraph line, brs. NE. & SW., parallel to R.R.
 80.00 To cor. of Tps. 23 & 24 N., Rs. 14 & 15 W.
 Land, rolling. Soil, 3rd rate, gravelly, loose, dry.
 Sparse greasewood, cacti. Good native grass in places.
 April 21, 1911.

General Description.

The South Boundary of T. 24 N., R. 15 W., runs over a smooth rolling, or open valley. There is no water or timber on or near the line.

Jesse Burright
 U. S. Surveyor.

Chains.

April 22, 1911.

At 8h a.m., l.m.t., At the cor. of Tps. 23 & 24 N., Rs. 15 & 16 W., as re-established by W. J. Secor, and by him described, in Book D.

I set off $11^{\circ}58\frac{1}{2}'$ N. on the decl. arc, and $35^{\circ}25'$ N. on the lat. arc, and determine a true meridian with the solar.

Thence I run, as per instruction,

West, bet. secs. 1 & 36.

Over heavily rolling, or mts. land, desc. grad.

18.00 Wash, 150 lks. wide, course ENE.

24.00 Wash, 50 lks. wide, course NE., asc. steep.

32.00 Spur, brs. SE. & NW., desc.

36.00 Head of gulch, course SE., asc. prec.

40.00 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap,

$\frac{1}{4}$ S. 36 in N., and
S. 1 in S. half,

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

48.00 Top of high divide, brs. N. & SW., top of high peak on same is 2 chs. to N.

50.00 desc. SW. slope. on divide.

53.00 Cross divide, brs. NE. & SW., turns to S. thence along N. slope.

62.00 Spur, brs. NW. & SE., desc. prec. W. slope.

70.00 Foot of prec. descent, desc. grad.

79.60 Wash, 20 lks. wide, course WSW.

80.00 Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of secs. 1, 2, 35 & 36, marked on brass cap,

T. 24 N. in N.,
T. 23 N. in S., and
R. 16 W. in W. half,
S. 35 in NW.,
S. 36 in NE.,
S. 1 in SE., and
S. 2 in SW. quadrants,

raise a mound of stone 3 ft. base, 2 ft. high W. of cor.

Land, mts., rough.

Soil, 3rd rate, stony.

Sparse vegetation, few cacti, and other brush. Sparse grass.

West, bet. secs. 2 & 35.

Over mts. land, along S. slope of spur, near foot.

18.50 Wash, 30 lks. wide, course WNW., runs between buttes to NW.

A hill br. N. 8 chs. dist. to top.

A hill brs. NNW. about 30 chs. dist. to top.

40.00 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap,

$\frac{1}{4}$ S. 35 in N. half, and
S. 2 in S. half,

dig pits 18x18x12 ins. E. & W. of cor. 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high N. of cor.

80.00 Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of secs. 2, 3, 34 & 35, marked on brass cap, T. 24 N. in N.,

T. 23 N. in S., and
R. 16 W. in W. half,
S. 34 in NW.,
S. 35 in NE.,
S. 2 in SE., and
S. 3 in SW. quadrants,

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, mts. Soil, 3rd rate, sandy, gravelly, stony.

Sparse greasewood, sage brush, few tesseta. Good grass.

At this cor. at noon,, I set off $12^{\circ}1'$ N. on the decl. arc, and observe the sun on the meridian.

The resulting lat. is $35^{\circ}25'$ N.

Chains

- West, bet. secs. 3 & 34.
Over gently undulating valley.
- 3.29 Road, middle of valley, brs. N. & S.
- 40.00 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap,
 $\frac{1}{4}$ S. 34 in N., and
S. 3 in S. half,
dig pits 18x18x12 ins. E. & W. of cor. 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high N. of cor.
- 80.00 Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of secs. 3, 4, 33 & 34, marked on brass cap,
T. 24 N. in N.,
T. 23 N. in S., and
R. 16 W. in W. half,
S. 33 in NW.,
S. 34 in NE.,
S. 3 in SE., and
S. 4 in SW. quadrants,
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, level.
Soil, 3rd rate, sandy, gravelly.
Sparse sage brush, cacti. Good native bunch grass.
-
- West, bet. secs. 4 & 33.
Over gently rolling land, asc. slightly, in valley.
- 22.82 Road, brs. NNW. & SSE.
- 40.00 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap,
 $\frac{1}{4}$ S. 33 in N., and
S. 4 in S. half,
dig pits 18x18x12 ins. E. & W. of cor. 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high N. of cor.
- 80.00 Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of secs. 4, 5, 32 & 33, marked on brass cap,
T. 24 N. in N.,
T. 23 N. in S., and
R. 16 W. in W. half,
S. 32 in NW.,
S. 33 in NE.,
S. 4 in SE., and
S. 5 in SW. quadrants,
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, gently rolling.
Soil, 3rd rate, sandy, gravelly, loose, dry.
Sparse sage brush, cacti. Coarse, dense native grass.

Chains.

West, bet. secs. 5 & 32.
 Over gently rolling land, asc. grad., through dense sage brush, cacti, dense, coarse native grass.

40.00 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap,
 $\frac{1}{4}$ S. 32 in N., and
 S. 5 in S. half,
 dig pits 18x18x12 ins. E. & W. of cor. 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high N. of cor.

76.00 Wash, 50 lks. wide, course NE.

80.00 Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of secs. 5, 6, 31 & 32, marked on brass cap,
 T. 24 N. in N.,
 T. 23 N. in S., and
 R. 16 W. in W. half,
 S. 31 in NW.,
 S. 32 in NE.,
 S. 5 in SE., and
 S. 6 in SW. quadrants,
 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, 3rd rate, sandy, gravelly.
 Dense cacti, and sage brush, and coarse heavy native grass.

West, bet. secs. 6 & 31.
 Over heavily rolling, or mts. land, asc. grad.

6.00 Asc. E. point of stony ridge.

30.00 Top of ridge, cross spur, thence along N. slope.

40.00 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap,
 $\frac{1}{4}$ S. 31 in N., and
 S. 6 in S. half,
 raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high N. of cor.

45.00 Desc. prec.

55.00 Low pass between buttes, brs. E. & W., asc. steep, stony SE. slope.

70.00 Top, and asc. along N. slope gradually.

100.00 Top of high rocky butte brs S. 4 chs. dist.
 sharp spur, or bluff, brs. N. & S.,
 Desc. prec. W. slope.

127.35 Intersect East Boundary of T. 23 N., R. 17 W., at point whence the $\frac{1}{4}$ sec. cor. on East bdy. sec. 1,
 brs. South, 14.75 chs. dist., as re-established by me, and heretofore described.
 At the point of intersection, I
 Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for closing cor. of Tps. 23 & 24 N., R. 16 W., marked on brass cap,
 C.C., E. of centre,
 R. 16 W. in E. half, and
 T. 24 N., S. 36, R. 17 W., S. 1 T. 23 N., in W. half,
 T. 24 N., S. 31 in NE., and
 S. 6, T. 23 N. in SE. quadrants,
 raise a mound of stone 3 ft. base, 2 ft. high E. of cor.

Land, mts., rough. Soil, 3rd rate, stony, gravelly.
 Sparse sage brush, cacti. Good native grass in places.
 April 22, 1911.

General Description.

The South Boundary of T. 24 N., R. 16 W., runs over a rough, granite lone range of mountains in the two miles to the East, these mountains being barren and worthless. The West part of the line is good grazing land, covered with a fair growth of native grass, dense in places. There is no timber or water on or near the line.

Jesse B. Wright U.S. Surveyor.

Boundaries of T. 24 N., R. 16 W.
 Latitudes, departures, and closing errors.

Line designated.	True bearing.	Distance,	Latitudes...		Departures.	
			N.	S.	E.	W.
		Chs.	Chs.	Chs.	Chs.	Chs.
South Boundary West, ---		527.35 ✓	-----	-----	-----	527.35
W. Boundary North, ---		25.25 ✓	25.25	-----	-----	-----
E. bdy. T. 24 N. R. 16 W. North, ---		465.40 ✓	465.40	-----	-----	-----
6th Std. Par. N. East, ---		527.21	-----	-----	527.21	-----
East Boundary South, ---		489.52	-----	489.52	-----	-----
Convergency, -----					.56	-----
			490.65	489.52	527.77	527.35
			489.52	-----	527.35	-----
Error in lat., -----			1.13 ✓			
Error in dep., -----					.42	

Jesse B. Wright
 U. S. Surveyor.

Chains.

April 30, 1911.

At 8h a.m., l.m.t., at the cor. of Tps. 23 & 24 N., Rs. 15 & 16 W., as re-established by W. O. Secor, and by him described, in Book D.

I set off $14^{\circ}34'$ N. on the decl. arc, and $35^{\circ}25'$ N. on the lat. arc, and determine a true meridian with the solar.

Thence I run, as per instructions, on range line,

North, bet. secs. 31 & 36.

Over heavily rolling land.

10.00 Wash, 50 lks. wide, course E.

16.00 Foot of steep slope, brs. NE. & WSW., asc. steep.

29.00 Top of spur, brs. E. & W., desc. steep.

35.50 Foot of steep slope, brs. E. & W., desc. grad.

40.00 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap,
 $\frac{1}{4}$ S. 36 in W., and
 S. 35 in E. half,

48.00 Wash course E. raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high W. of cor.
 55.00 Spur, brs. E. & W., desc.

80.00 Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of secs. 25, 30, 31 & 36, marked on brass cap,

T. 24 N. in N. half,
 R. 16 W. S. 25 in NW.,
 R. 15 W. S. 30 in NE.,
 S. 31 in SE., and
 S. 36 in SW. quadrants,

raise a mound of stone 3 ft. base, 2 ft. high W. of cor.

Land, rolling, mts.

Soil, 3rd rate, gravelly, stony.

Sparse greasewood, cacti. Good grass in draws.

North, bet. secs. 25 & 30.

Over broken, land, desc.

.60 Wash, 60 lks. wide, course SE.

5.00 Asc. abrupt.

12.50 Top of rocky spur, brs. SE. & NW., desc. NE. slope over very rough huge boulders.

40.00 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for $\frac{1}{4}$ Sec. cor., marked on brass cap,
 $\frac{1}{4}$ S. 25 in W., and
 S. 30 in E. half,

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

Thence desc. grad. along E. slope.

80.00 Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of secs. 19, 24, 25 & 30, marked on brass cap,

T. 24 N. in N. half,
 R. 16 W. S. 24 in NW.,
 R. 15 W. S. 19 in NE.,
 S. 30 in SE., and
 S. 25 in SW. quadrants,

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, mts.

Soil, 3rd rate, sandy, gravelly, stony.

Sparse cacti, native grass.

At this cor. at noon, I set off $14^{\circ}37'$ N. on the decl. arc, and observe the sun on the meridian.

The resulting lat. is $35^{\circ}27'$ N.

Chains.

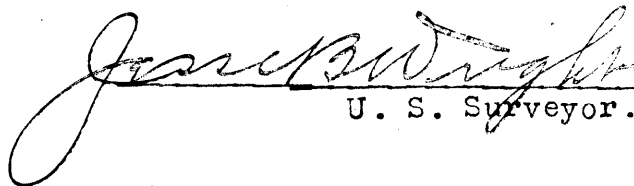
North, bet. secs. 19 & 24,
 Over mts. land, desc. grad. along E. slope, near foot.
 19.00 Top of spur, brs. NE. & SW., desc. steep.
 22.00 Foot of main slope, brs. NE. & SW., thence desc. grad.,
 over smoother land, in valley.
 34.50 Road, brs. SE. & NW.
 40.00 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in
 the ground for $\frac{1}{4}$ sec. cor., marked on brass cap,
 $\frac{1}{4}$ S. 24 in W., and
 S. 19 in E. half,
 dig pits 18x18x12 ins. N. & S. of cor. 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 an iron post 3 ft. long, 3 ins. in diam. 24 ins. in
 the ground for cor. of secs. 13, 18, 19 & 24, marked on
 brass cap,
 T. 24 N. in N. half,
 R. 16 W. S. 13 in NW.,
 R. 15 W. S. 18 in NE.,
 S. 19 in SE., and
 S. 24 in SW. quadrants,
 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, mts.
 Soil, 3rd rate, sandy, gravelly.
 Sparse cacti, sage brush, fair grass in valley, and draws.

North, bet. secs. 13 & 18.
 Over gently undulating valley.
 40.00 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in
 the ground for $\frac{1}{4}$ sec. cor., marked on brass cap,
 $\frac{1}{4}$ S. 13 in W., and
 S. 18 in E. half,
 dig pits 18x18x12 ins. N. & S. of cor. 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 an iron post 3 ft. long, 3 ins. in diam. 24 ins. in
 the ground for cor. of secs. 7, 12, 13 & 18, marked on
 brass cap,
 T. 24 N. in N. half,
 E. 16 W. S. 12 in NW.,
 R. 15 W. S. 7 in NE.,
 S. 18 in SE., and
 S. 13 in SW. quadrants,
 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, gently rolling.
 Soil, 3rd rate, sandy, gravelly, loose, dry.
 Sparse sage brush, cacti. Good native grass.

Chains	
40.00	<p>North, bet. secs. 7 & 12. Over gently undulating valley or plain, asc. slightly. Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S. 12 in W., and S. 7 in E. half, dig pits 18x18x12 ins. N. & S. of cor. 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high W. of cor.</p>
80.00	<p>Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of secs. 1, 6, 7 & 12, marked on brass cap, T. 24 N. in N. half, R. 16 W. S. 1 in NW., R. 15 W. S. 6 in NE., S. 7 in SE., and S. 12 in SW. quadrants, 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, gently rolling. Soil, 3rd rate, sandy, loose, dry. Sparse sage brush, cacti. Good native grass.</p>
40.00	<p>North, bet. secs. 1 & 6. Over gently undulating plain. Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S. 1 in W., and S. 6 in E. half, dig pits 18x18x12 ins. N. & S. of cor. 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high W. of cor.</p> <p>89.52 Intersect 6th Std. Parallel North, at a point, whence Std. cor. of secs. 31 & 32, on S. bdy. T. 25 N., R. 15 W., brs. East, 17.90 chs. dist., as re-established by me, and heretofore described, in Book B. At the point of intersection, I Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for closing cor. of Tps. 24 N., Rs. 15 & 16 W., marked on brass cap, C.C., S. of centre. T. 25 N., R. 15 W., S. 31, S. 32, in N., and T. 24 N. in S. half, S. 6, R. 15 W. in SE., and S. 1, R. 16 W. in SW. quadrants, dig pits 30x24x12 ins., crosswise on each line, E. & W. 4 ft., and S. of cor. 8 ft. dist., and raise a mound of earth 5 ft. base, $2\frac{1}{2}$ ft. high S. of cor. Land, rolling gently. Soil, 3rd rate, sandy, gravelly, loose, dry. Sparse greasewood, sage brush, cacti. Good native grass.</p>

General Description.

The West Boundary of T. 24 N., R. 15 W., runs across the East point of spurs from a small mountain range for two miles, then across a gently rolling or undulating valley, covered with a good growth of native grass. There is no water or timber on or near the line.


U. S. Surveyor.

April 30, 1911.

Boundaries of T. 24 N., R. 15 W.
Latitudes, departures, and closing errors.

Line designated.	True bearing.	Distance	Latitudes.		Departures.	
			N.	S.	E.	W.
		Chs.	Chs.	Chs.	Chs.	Chs.
South Bdy.--	S. 39° 57' W.	477.52	-----	.41	-----	477.52
West Bdy.--	North,---	489.52	489.52	-----	-----	-----
on 6th Std. Par. N. East,---		477.45	-----	-----	477.45	-----
East Bdy.--	South,---	489.14	-----	489.14	-----	-----
Convergency, -		-----	-----	-----	.52	-----
			489.52	489.55	477.97	477.52
				489.52	477.52	-----
Error in lat.,	---	---		.03		
Error in dep.,	---	---			.45	

Jesse B. Wright
U. S. Surveyor.

<p>1</p> <p>2</p> <p>3</p> <p>4</p> <p>5</p> <p>6</p> <p>7</p> <p>8</p> <p>9</p> <p>10</p> <p>11</p> <p>12</p> <p>13</p> <p>14</p> <p>15</p> <p>16</p> <p>17</p> <p>18</p> <p>19</p> <p>20</p> <p>21</p> <p>22</p> <p>23</p> <p>24</p> <p>25</p> <p>26</p> <p>27</p> <p>28</p> <p>29</p> <p>30</p> <p>31</p> <p>32</p> <p>33</p> <p>34</p> <p>35</p> <p>36</p> <p>37</p> <p>38</p> <p>39</p> <p>40</p> <p>41</p> <p>42</p> <p>43</p> <p>44</p> <p>45</p> <p>46</p> <p>47</p> <p>48</p> <p>49</p> <p>50</p> <p>51</p> <p>52</p> <p>53</p> <p>54</p> <p>55</p> <p>56</p> <p>57</p> <p>58</p> <p>59</p> <p>60</p> <p>61</p> <p>62</p> <p>63</p> <p>64</p> <p>65</p> <p>66</p> <p>67</p> <p>68</p> <p>69</p> <p>70</p> <p>71</p> <p>72</p> <p>73</p> <p>74</p> <p>75</p> <p>76</p> <p>77</p> <p>78</p> <p>79</p> <p>80</p> <p>81</p> <p>82</p> <p>83</p> <p>84</p> <p>85</p> <p>86</p> <p>87</p> <p>88</p> <p>89</p> <p>90</p> <p>91</p> <p>92</p> <p>93</p> <p>94</p> <p>95</p> <p>96</p> <p>97</p> <p>98</p> <p>99</p> <p>100</p>			
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102 Resurvey of North boundary of Township 23 North, Range 14 W.

Chains.

- May 8, 1911.
At 8h.a.m., l.m.t., at cor. of Tps. 23 and 24 N., Rs. 14 and 15 W., recently reestablished by me, and heretofore described, I set off $16^{\circ}55'N.$ on the decl. arc; and $35^{\circ}25'N.$ on the lat. arc, and determine a true meridian with the solar.
- Thence I run, as per instructions on township line, East, between secs. 6 and 31.
Over broken, rolling land; ascend gradually.
- 11.09 Road, brs, SSW. and NNE.
25.00 Top of rise, N. end of Peacock Mountains, brs. N. and S.; descend gradually.
- 40.00 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap,
 $\frac{1}{4}$ S 31 in N., and
S 6 in S. half; dig pits 18x18x12 ins., E. and W. of cor. 3 ft. dist. and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, N. of cor.
- 80.00 Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in the ground for cor. of secs. 31, 32, 5 and 6, marked on brass cap,
T 24 N in N.,
T 23 N in S., and
R 14 W in W. half;
S 31 in NW.,
S 32 in NE.,
S 5 in SE., and
S 6 in SW. quadrants; 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, 3rd rate, gravelly.
Scattering greasewood, tesseta, palo negro, mesquite, cacti; fair grass.

-
- East, bet, secs. 5 and 32.
Over rolling land, descend gradually.
- 7.40 Road, Hackberry to Kingman, brs. ESE. and WNW.
40.00 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap,
 $\frac{1}{4}$ S 32 in N., and
S 5 in S. half; dig pits 18x18x12 ins., E. and W. of cor. 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, N. of cor.
- 53 02 Telegraph line, brs. SE. and NW.
55.00 Center of Atchison, Topeka & Santa FE. R.R. brs. S. $64^{\circ}58'E.$, and N. $64^{\circ}58'W.$
- 56.60 Telegraph line, parallel to RR.
61.46 Wash, 15 lks. wide, course NNE.
80.00 Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in the ground for cor. of secs. 4, 5, 32 and 33, marked on brass cap,
T 24 N in N.,
T 23 N in S., and
R 14 W in W. half;
S 32 in NW.,
S 33 in NE.,
S 4 in SE.,
S 5 in SW. quadrants; 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, 3rd rate, gravelly.
Scattering greasewood, cacti, mesquite, tesseta; fair grass.
-

Chains

East, bet. secs. 4 & 33.

Over gently rolling land, desc. grad.

40.00 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap,
 $\frac{1}{4}$ S. 33 in N., and
 S. 4 in S. half,

dig pits 18x18x12 ins. E. & W. of cor. 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high N. of cor.

56.56 Wash, 55 lks. wide, course NNE.

75.40 Wash, 20 lks. wide, course NNE.

80.00 Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of secs. 3, 4, 33 & 34, marked on brass cap,

T. 24 N. in N.,
 T. 23 N. in S., and
 R. 14 W. in W. half,
 S. 33 in NW.,
 S. 34 in NE.,
 S. 3 in SE., and
 S. 4 in SW. quadrants,

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, 3rd rate, sandy, gravelly.

Scattering greasewood, cacti, mesquite. Fair grass.

At this cor. at noon, l.m.t., clouds obscure the sun.
 Impracticable to observe the latitude.

East, bet. secs. 3 & 34.

Over rolling land, desc. grad.

38.43 Road, brs. NNW. & SSE., Enter flat,

40.00 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap,
 $\frac{1}{4}$ S. 34 in N., and
 S. 3 in S. half,

dig pits 18x18x12 ins. E. & W. of cor. 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high N. of cor.

49.00 Enter Truxton wash, course NNW.

58.00 Leave wash, course NNW., asc. grad.

60.66 Old road, brs. NNW. & SSE.

80.00 Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of secs. 2, 3, 34 & 35, marked on brass cap,

T. 24 N. in N., S 34 in NW.,
 T. 23 N. in S., and S 35 in NE.,
 R. 14 W. in W. half, S 2 in SE. S 3 in SW. quadrants

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, gently rolling, level.

Soil, 3rd rate, sandy, loose, gravelly, dry, fertile.

Scattering greasewood, cacti, few mesquite, tesselata.

Good grazing in places.

Chains East, bet. secs. 2 & 35.
 Over gently rolling land, asc. grad.
 11.40 Wash, 50 lks. wide, course WSW.
 40.00 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in
 the ground for $\frac{1}{4}$ sec. cor., marked on brass cap,
 $\frac{1}{4}$ S. 35 in N., and
 S. 2 in S. half,
 raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high N. of cor.
 49.34 Wash, 50 lks. wide, course WSW.
 60.00 Asc. SW. slope.
 70.00 Top of S. point, and along S. slope of flat point.
 Foot of same is 5 chs. to S.
 78.00 Desc.
 80.00 Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in
 the ground for cor. of secs. 1, 2, 35 & 36, marked on
 brass cap,
 T. 24 N. in N., S. 35 in NW,
 T. 23 N. in S., and S. 36 in NE.,
 R. 14 W. in W. half, S. 1 in SE. S. 2 in SW. quad.,
 dig pits 18x18x12 ins. in each sec. $5\frac{1}{2}$ ft. dist., and
 raise a mound of earth 4 ft. base, $1\frac{1}{2}$ ft. high W. of cor.
 Land, rolling. Soil, 3rd rate, sandy, gravelly.
 Sparse greasewood, cacti. Good native grass.

East, bet. secs. 1 & 36.
 Desc. grad., over rolling land.
 14.00 Enter wash, 150 lks. wide, course WSW.
 21.00 Leave wash, from NE., runs WSW.
 40.00 Set an iron post 3 ft. long, 1 in. in diam. 26 ins. in
 the ground for $\frac{1}{4}$ sec. cor., marked on brass cap,
 $\frac{1}{4}$ S. 36 in N., and
 S. 1 in S. half,
 dig pits 18x18x12 ins. E. & W. of cor. 3 ft. dist., and
 raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high N. of cor.
 45.60 Intersect West Boundary of T. 23 N., R. 13 W., at point
 whence the cor. of Tps. 23 & 24 N., Rs. 13 & 14 W., as
 heretofore re-established and described by me,
 hrs. N. 2° 13' E., 9.06 chs. dist.
 I change the markings of said cor. to refer to Tps. 23
 & 24 N., R. 13 W., only, and at my point of intersection,
 Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in
 the ground for closing cor. of Tps. 23 & 24 N., R. 14 W.,
 marked on brass cap,
 C.C., W. of centre,
 T. 24 N. S. 31, R. 13 W., S. 6, T. 23 N. in E., and,
 R. 14 W. in W. half,
 T. 24 N., S. 36 in NW., and
 S. 1, T. 23 N. in SW. quadrants,
 raise a mound of stone 3 ft. base, 2 ft. high W. of cor.
 Land, rolling. Soil, 3rd rate, sandy, gravelly, stony.
 Sparse greasewood, mesquite, tesseta, cacti. Fair grass.
 I now change the markings of the corners on East
 Boundary of T. 23 N., R. 13 W., so as to refer to
 T. 23 N., R. 13 W., only, as per instructions, and
 destroy the traces of the old corners on the N. & S. bdrs.
 of T. 23 N., R. 14 W., as found by me.

May 8, 1911.

Latitudes, departures, and closing errors.

Line designated.	True Bearing.	Dist.	Latitudes.		Departures.	
			N.	S.	E.	W.
South Bdy.	West,	445.60				445.60
West, "	North,	489.14	489.14			
6th.St.Par.	East,	444.92			444.92	
N.						
East Bdy.	South,	480.40		480.40		
" "	S.2°13'W.	9.06		9.05		.35
Convergency,					.56	
Totals,			489.14	489.45	445.48	445.95
				489.14		445.48
Error in lat.				.31		.47
					Error in dep.	

GENERAL DESCRIPTION.

The North boundary of Township 23 North, Range 14 West runs across a rolling valley, covered with scattering cactus and greasewood. No water along the line. Soil in the narrow valley of the Truxton Wash is a rich sandy loam.

Jesse B. Wright
N.P. Puryear

LIST OF NAMES.

BOOK 2317

A list of the names of the individuals employed by Jesse B Wright, 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

Township exterior surveyed under Group 10

showing the respective capacities in which they acted:

Herbert W. Worcester,	Chairman,	Sept. 29, 1910,	to	May 19, 1911.
Frank L. Crofoot,	"	"	"	Nov. 27, 1910.
James Morrow,	Flagman,	"	"	Oct. 15, 1910.
Walter J. Thompson,	Chairman,	Nov. 10, 1910,	to	Feb. 20, 1911.
Edgar M. Darnall,	Chairman,	Feb. 1, 1911,	to	May, 19, 1911.
James R. Smith,	Moundman,	Sept. 29, 1910,	to	Feb. 20, 1911.
Bart Tyson,	"	Feb. 22, 1911,	to	May 19, 1911.
Rex Haskins,	"	Feb. 22, 1911,	to	Apr. 21, 1911.
Edgar Morris,	Axman,	Sept. 29, 1910,	to	Feb. 20, 1911.
Gus Wuetig,	Axman,	Feb. 22, 1911,	to	Apr. 1, 1911.
Louie Van Warter,	Flagman,	Oct. 15, 1910,	to	May 19, 1911.
Tom Noonan,	Moundman,	Apr. 22, 1911,	to	May 19, 1911.

Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Jesse B Wright, United States Deputy Surveyor, in surveying all

those parts or portions of the

Township exterior resurveyed under Group 10

of the San

Salt River Meridian, Territory 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

Frank L. Crofoot Herbert W. Worcester Chairman.

Edgar M. Darnall Walter J. Thompson Chairman.

James R. Smith Moundman.

Rex Haskins Moundman.

Axman.

Gus Wuetig Axman.

Louie Van Warter Flagman.

Subscribed and sworn to before me this 19th day of May, 1911

Jesse B Wright
U. S. Surveyor.



109 92
BOOK 2317

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, Jesse B. Wright, United States Deputy Surveyor do solemnly swear that, in pursuance of ^{instructions} a contract received from Frank S. Ingalls United States Surveyor General for Arizona, bearing date of the 16th day of September, 1910, 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 ^{re} all those parts or portions of the Extension lines embraced under Group 10

of the Group 10 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.

Jesse B. Wright
United States Deputy Surveyor.

Subscribed by said Jesse B. Wright and sworn to before me }
this 7th day of August, 1911



Frank S. Ingalls
U.S. Surveyor General for Arizona

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Phoenix, Ariz. March 25, 1912

The foregoing field notes of the survey of ^{re} The East Boundaries of Tps 21, 22, 23, 24, 25, 26, 27 T. R 17 W; Tps 24, 25, 26 T. R 16 W; Tps 22, 23, 24, 25 T. R 15 W; Tps 21, 22, 23 T. R 14 W; Tps 20, 21 T. R 13 W; and the North Boundaries Tps 21 T. R 13 W; Tps 22 T. R 14 W; Tps 23 T. R 13, 14, 15, 16 W; Tps 24 T. R 15, 16 W; Tps 26 T. R 16 W; all of the 5th & 6th Meridian, Arizona

executed by Jesse B. Wright, U.S. Deputy Surveyor, under his ^{Group} contract No. 10, dated Sept. 16, 1910, 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