Book A.

BOOK 2118

Recepted, Sept. letter & Harro-og.

# FIELD NOTES

Boundaries Frac Ifs. 19 N R	12/2 E
Frac naul S. bodro Ip	
y of 3 rd Guide Mur. look?	<b>A</b>
76	ja ja
<u></u>	
2118	
	<u> </u>
	·
Of the Gilacus Salt Rive 130	2 1 Mari 1
Of the said wife wat 100	Meriaian,
aryona	
AS SURVEYED BY	
Jesse Birright, Un	ited States Deputy Sur
Under his Contract No. 15-2, dated Och 2.	w 1008
<b>~</b> .	
Survey commenced Nov. 28 12	•

2118

Praum A Bearn Chamines
Bew a Mclauley chamine

Phingilina a Martin Chamine

Claude Martin Chamin

Claude Martin Thomas

Claude Martin Thomas

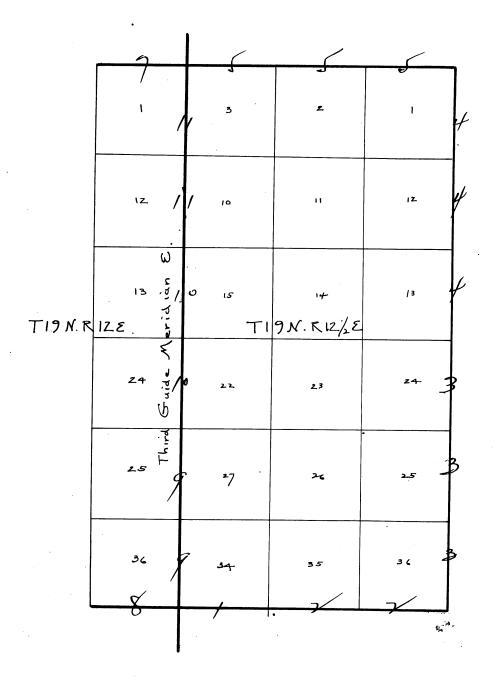
Alvy A Smitz Mannsman

R.\_\_151

182

BOOK 2118

# INDEX DIAGRAM



_		
3		•
118		
BOOK 2118	PRELIMINARY OF	ATHS OF ASSISTANTS.
W- / aul	of Promis	and Virgilius A. Morrie
		y execute the duties of chainmen; that we will level the
•		the tally pins, either by sticking or dropping the same; the
•		ojects, and the true lengths of all lines that we assist
measuring, to the best of	our skill and ability, and	in accordance with instructions given us, in the survey
By & 16 19.	NR121/E For	2 M me & fe 26 19 N 10 12 E.
enny of	1	I nous S. be. 7/9NR/2 E. Trans H. Devin Chainma
0	· <del>c</del>	Thaust H. Clevin, Chainma
		Tringilius of Marin Chainma
	20 7/	Ben a we Canly Chris
Subscribed and sworn to	before me this	John & - Martin chamme
day of MW	, 190 <b>8</b>	Tringility of ollassing Chainma  (Ben a we Candy Chainma  ) John & Martin Chain  (1)
	<b>€</b>	James o Wing NV
* SEAL		U. S. Seputy Survey
8	41 2 3	
	,	and
		perform the duties of moundmen in the establishme
		us, to the best of our skill and ability, in the survey
Bds 4/9	NR12/2F.	Inva 7185 ham 1191 812 E
·		along to Smith, Moundma
		J. Mountaina
		, Moundma
Subscribed and sworn to	before me this $287$	<u></u>
dev of Ann.	, 190 <i>8</i>	
day or	, 100	Jen BWrigh
XXXXX X SEAL		H. S. Deputy Surreyor
<b>表生生</b>	<b>:</b> &	M. J. Deputy Jusseyor
WE		and
		form the duties of axmen in the establishment of corne
•	· -	us, to the best of our skill and ability, in the survey
***************************************		
,	,	, Axma
		, Axma
		,
	before me this	}
day of	, 190	<b>)</b>
<b>E</b> FFEE	<b>F</b> \$44	
SEAL MERE		
$\mathcal{O}_{\mathcal{O}}$ .	600	
I, Claude	Morris	, do solemnly swear that I will well and tru

I, Claude, Morris, 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 Blos. J. INR 12/4 E. From 175. In 1/9NR 12 E

Claude Morris Flagman

Subscribed and sworn to before me this 25/2

day of \_\_\_\_\_\_, 1900

SEAL

A. J. Deforty Lerry

South Bdy. T. 19 N. R. 12 1/2 E. C hains Survey commenced Nov. 28,1908, and executed with a W. & L.E. Gurley light mountain transit, special make unnumbered. This instrument is provided with two double verniers each reading to 1' of arc, and with Burts' patent solar attachment, the verniers of the lat. and decl. arcs reading to 30" of arc. I begin as per instructions at the cor. of Tps.180 & 19 W:Rs. 12 & 12 1/2 E. which is a limestone 26x10x8 ins. marked and witnessed as described by the Surveyor General. I re-mark this stone with 6 notches on each edge, destroy the old md. of stone which is dilapidated, and raise a md. of stone 4 ft. base 3 ft. high S. of cor.

I test the levels and line of collimation of my instrument and finding same satisfactory, I also test the standards and find same exact; I examine the polar axis of the solar and test the adjustments of the solar, finding all parts of the instrument in satisfactory adjustment as to tests; to test the solar apparatus by comparing P.M. & A.M. obs. for mer. with a true mer. determined by polaris obs.I proceed as follows: At the cor. jabove described at 11h 48m a.m.l.m.t.I set off 21 20 5. . on the decl. arc and observe the sun on the mer. The resulting lat. is 35. 00' N. At 4h p.m., l.m.t. I set off 21° 19' 30" S. on the decl. arc and 35°0N' on the lat. arc and determine a mer. with the solar and mark a point in the mer. thus determined by a tack in a stake driven firmly in the ground 6 chs. N. of my sta. Nov.28,1908. Nov. 29,1908. At 2h 47m a.m., 1.m.t. I observe polaris at

W. elong. in accordance with instructions in the Manual and mark a point in the line thus determined by a tack in a stake 5 chs. N. of my. sta.

At 8h a.m., l.m.t. I set off the azimuth of polaris 1.2% to the East and mark the mer. thus determined by a tack in the stake 6 chs. N. of my sta., which point falls 1/4 in. E. of the mer. determined by solar obs. of preceding evening. Then I set off 21° 26' 30" S. on the decl. arc and 35°0N. on the lat. arc and determine a mer. with the solar, which mer. falls 1/8 in. E. of that determined by polaris obs. The solar apparatus by p.m. & a.m. obs. defines about 12" W. & 6" E. of the mer. established by polaris obs. Therefore I conclude that the adjustments of the inst. are satisfactory. The mag. bearing of the meridian at 8h a.m., is 14.30 T. the angle thus determined gives the mag. decl. 14° 30'E. From the Tp..cor. above described, I run As per instructions, East on S. bdy. sec. 34, T.19 N. R.12 1/2 E.

Over gently rolling land. 38.09 Alaowing 1.91 chs. for convergency as per instructions, I Set a limestone 24x8x8 ins. 18 ins. in the ground for 1/4 sec. cor. marked 1/4 on N. face and raise a md. of stone 2 ft. base 1 1/2 ft. high N. of cor. No bearings available.

78.09 Set a limestone 30x15x10 ins. 24 ins. in the ground for cor. of secs. 34,35,2 & 3, marked with 2 notches on E. & 4 notches on W. edges and raise a mound of stone 2 ft. base 1 1/2 ft. high W. of cor. No bearings available.

Land, rolling Soil, 2nd & 3rd rate, sandy, loamy. No timber or undergrowth. Rolling land 78.09 chs.

```
East on S. bdy. sec. 35.
        Over gently rolling mesa land, thro' dense sage brush.
10.00 Road, brs. N. & S.
20.00 Draw 2 chs. wide course N. asc. grad.
40.00 Set a limestone 24x12x8 ins. 18 ins. in the ground for
           1/4 sec. cor. marked 1/4 on N. face and raise a mound
           of stone 2 ft. base 1 1/2 ft. high N. of cor.
           No bearings available.
         Set a limestone 24x12x6 ins. 18 ins. in the ground for cor. of secs. 35,36,1 & 2, marked with 1 notch on E. & 5 notches on W. edges and raise a mound of stone 2 ft. base 1 1/2 ft. high W. of cor.
80.00
             No bearings available.
             Land, rolling.
             Soil, 2nd & 3rd rate, sandy loamy.
             No timber.
             Undergrowth, dense sage brush, scattering cedar.
        Rolling land covered with dense undergrowth 80.00 chs.
        East on S. bdy. sec. 36.
          Over rolling land through cedar timber.
65.00 Enter dense cedar.
40.00 Set a cedar post 3 ins. sq. 3 ft. long 2 ft. in ground for 1/4 sec. cor. marked 1/4 S.36 on N. & S. 1 on S.
        faces, from which, A cedar tree 6 ins. diam.brs. S. 63 lks. dist.
               marked 1/4 S. 1 B.T.
        A cedar tree 6 ins.diam.brs.N.38 1/2° E.150 lks.dist.
marked 1/4 S. 36 B.T.

80.00 A cedar tree 12 ins. diam. for. cor. of Tps.18 & 19 N.

Rs. 12 1/2 & 13 E. I blaze and mark,
           T.19 N. S. 31 'on N.B.
           R.13 E. S. 6 on S.E.
                           1 on S.W. and
           T.18 N. S.
           R.12 1/2 E.S.36 on N.W. faces, with 6 notches on N.,S.,
           E., & W. edges from which,
        A cedar tree 18 ins.diam.brs.N.47 E.115 lks.dist.
                   marked T.19 N. R.13 E. S.31 B.T.
         A cedar tree 15 ins.diam.brs.S.89 E.90 lks. dist.
         marked T.18 N.R. 13 E. S.6 B.T.

A cedar tree 16 ins.diam.brs.S.24 W.72 lks.dist.

marked T.18 N. R.12 1/2 E. S.1 B.T.

A cedar tree 12 ins.diam.brs.N.14 W.215 lks.dist.
                   marked T.19 N.R. 12 1/2 E. S.36 B.T.
           Land rolling
            Soil, 2nd & 3rd rate sandy loamy.
            Timber, cedar.
            Undergrowth, dense cedar.
         Rolling land covered with dense undergrowth and
                exceptionally difficult to survey, 80.00 chs.
         At this cor. at 11h 48 1/2m.1.m.t., I set off 20°36'30" S. on the decl. arc and observe the sun on the mer. The resulting lat. is 35° N.
```

This line passes over a rolling mesa covered with good native grass with some sage brush.

The last mile to the East is through good cedar timber.

The soil is a rich sandy loam under which lies the limestone strata which extends throughout this locality.

U.S. Deputy Surveyor.

# East Boundary T. 19 N. R. 121/2 E.

```
Chains From the cor. of Tps. 18 & 19 N. Rs 12 1/2 & 13 E. as
            just established and described by me I run
        North, bet. secs. 31 & 36

Var. 14 1/2° E.

Over rolling land through dense cedar.
 40.00 Set a sandstone 20x18x6 ins. 15 ins. in the ground for 1/4 sec. cor marked 1/4 on W. face, from which, A cedar tree 18 ins. diam.brs.S.59 E.48 lks. dist.
            marked 1/4 S. 31 B.T.
A cedar tree 24 ins.diam.brs.S.64° W.52 lks.dist.
             marked 1/4 S.36 B.T.
 80.00 Set a sandstone 30x12x8 ins. 24 ins. in the ground for
         cor. of secs. 30,31,25 & 36 marked with 1 notch on S.
              & 5 notches on N. edges and raise a mound of stone 2 ft.
        base 1 1/2 ft. high W. of cor. from which, A cedar tree 6 ins. diam.brs.S.50 E.48 lks. dist.
            marked T.19 N. R. 13 E. S. 31 B.T.
        A cedar tree 8 ins. diam.brs.N.55 W.100 lks.dist.
            marked T.19 N.R.12 1/2 E. S.25 B.T.
          . No other bearings available.
        Land, rolling.
        Soil, 2nd & 3rd rate sandy, gravelly.
        Timber, cedar.
        Undergrowth, dense cedar.
        Rolling land covered with dense undergrowth and
            exceptionally difficult to survey 80.00 chs.
         North bet. secs. 25 & 30
        Over rolling land, through dense cedar. Old road, brs. N.W. & S.E.
 18.00
 40.00 Set a sandstone 30x15x6 ins. 24 ins. in the ground for 1/4 sec. cor. marked 1/4 on W. face and raise a md.
         of stone 2 ft. base 1 1/2 ft. high W. of Cor. from which A cedar tree 18 ins. diam.brs.S.65 E.83 lks.dist.
              marked 1/4 S.30 B.T.
         A cedar tree 6 ins. diam.brs.N.61 W.22 lks.dist.
              marked 1/4 S. 25 B.T.
 75.00 Leave cedar, and enter dense sage brush.
 80.00 Set a sandstone 36x18x6 ins. 27 ins. in the ground for
        cor. of secs. 19,30,24 & 25, marked with 2 notches on S.
         & 4 notches on N. edges and raise a mound of stone 2 ft
        base 1 1/2 ft. high W. of cor.
         No bearings available.
         Land, rolling.
         Soil, 2nd rate sandy , loamy.
         Timber, cedar.
         Undergrowth dense cedar and sage brush.
         Rolling land covered with dense undergrowth 80.00 chs.
        North, bet. secs 19 & 24.
        Over mts. land asc. along S.E. slope of crater mountain.
40.00 Set a limestone 30x24x8 ins. 24 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.
          No bearings available.
56.15 Cor. No.2 of Jupiter Placer, Mineral survey No.1806,
             brs. East 128 lks.
80.00 Set a limestone 24x12x8 ins. 18 ins. in the ground for cor. of secs.18,19,13 & 24, marked with 3 notches on S.
          & 3 notches on N. edges and raise a mound of stone
          2 ft. base 1 1/2 ft. high W. of cor.
         No bearings available.
        Land, mts.
         Soil, 3rd rate sandy.
         Timber, scattering cedar.
         Undergrowthe scattering cedar and sage brush.
        Mountainous land 80.00 chs.
                                              Nov.29,1908.
```

```
Chains
          Nov.30,1908.
          At this last described cor. at 8h a.m., l.m.t., I set off
21°36'S. on the decl. arc. and 35°02'30" N. on the lat. arc
and determine a true mer. with the solar.
          Thence I run
          North bet. secs. 13 & 18.
          Over mts. land asc. along E. slope of crater mountain.
        Cor.No 1 of Jupiter, and No.2 of Mars Placers, Mineral survey No. 1806, brs. East 124 lks.
 20.00
          Begin gradual desc.
 40.00 Set a limestone 30x15x6 ins. 24 ins. in the ground for
          1/4 sec. cor . marked 1/4 on W. face and raise a md.
          of stone 2 ft. base 1 1/2 ft. high W. of cor.from which,
A cedar tree 6 ins.diam.brs.N.82 W. 67 lks. dist.
               marked 1/4 S. 13 B.T.
         No other bearings available.
 56.90 Cor. No.1 of Mars Placer, Mineral Survey No.1806 brs.
           East 130 lks.
 78.00 Top of knoll, brs. E. & W. desc.
 80.00 Set a limestone 24x12x12 ins. 18 ins. in the ground for
         cor. of secs. 12,13,7, & 18, marked with 4 notches on S. & 2 notches on N. edges and raise a mound of stone 2 ft.
            base 1 1/2 ft. high W. of cor.
          No bearings available.
         Land Mts.
         Sqil, 3rd rate sandy.
         No timber, undergrowth, scattering cedar and sage brush. Mountainous land, 80.00 chs.
           North bat.sec. 7 & 12.
          Over rolling land desc.
 10.00 Foot of slope, asc. gradual Easterly slope.
 40.00 Set a limestone 48x24x8 ins. 36 ins. in the ground for
           1/4 sec. cor. marked 1/4 on W. face and raise a md. of stone 2 ft. base 1 1/2 ft. high W. of cor.
         No bearings available.
            Thence over rolling land.
 80.00 Set a limestone 24x12x8 ins. 18 ins. in the ground for
          cor. of secs. 1,6,7, & 12, marked with 1 notch on & N & 5 notches on SN. edges and raise a md. of stone 2 ft.
            base 1 1/2 ft. high W. of cor.
           No bearings available.
           Land, rolling.
          Soil, 2nd & 3rd rate sandy, loamy.
          No timber. Undergrowth scattering sage brush.
          Rolling land 80.00 chs.
          North bet. secs. 1 & 6.
             Over rolling land.
  40.00 St a limestone 36x15x6 ins. 12 ins. in ground to bedrock with mound of stone around it, 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.
           No bearings available.
  Set a limestone 36x18x6 ins. 27 ins. in the ground for cor. of Tps. 19 & 20 N. RS. 12 1/2 & 13 E., marked with 6 notches on N.,S.,E.,& W. edges, and raise a mound of stone 4 ft. base 3 ft. high S. of cor.

No bearings available.
          Land, rolling.
          Soil 2nd & 3rd rate, sandy, loamy.
No timber or undergrowth. Good native grass.
          Rolling land, 80.00 chs.
          At this cor at 11h 49m,1.m.t., I set off 21°40°S.on the
          decl. arc and observe the sun on the mer. The resulting lat. is 35° 04'30" N., which agrees closely with the calculated lat.
```

```
Chai ns
          From the cor. of Tps. 19 & 20 N. Rs. 12 1/2 & 13 E. as
          just established and described by me I run,
          West on a random line on N. bdy. of Tp., setting temp.
           sec. & 1/4 sec. cors. on line.
          At 2 miles 77.75 chs. I find evident remains of the old
          cor. of Tps.19 & 20 N. Rs. 12 & 12/2 603 G.M. E. 22 lks. S. which is
         a limestone 18 x 10 x 6 ins. faintly marked with 6 notches
           on each edge, in dilapidated mound of stone.
         This cor. being in a dilapidated condition and almost
         obliterated I destroy and re-establish in its original
         position by setting a limestone 48x24x18 ins.,36 ins. in
         the ground marked with 6 notches on N., S., E., & W. edges
          and raise a mound of stone 4 ft. base 3 ft. high S. of cdr.
          No bearings available.
          This cor. is on S. bank of Canyon Diable, 30 lks. from
          edge of canyon which runs West at this point, turning
          N. at 4 chs. W.
          From this last described cor. I run
         N. 89. 57 E. on a true line on N.bdy of Tp. bet. secs. 3 & 34.
         Over broken land, intermediate rate.
  7.75 | Mouth of Canyon from S.W., enters Canyon Diablo.
 Thence along S. bank of Canyon Diablo., which runs West.

Stane in md. of stone 4 ft. high, which I mark W.P. for witness point. A dam and water hole is in Canyon 2 chs.N
          Cross Canyon Diablo, runs N. at this point, & turns W.
 21.00
         at 2.50 chs. N., 5 chs.wide. Asc. over very rocky land.
          Set a limestone 24x12 x12 ins. 18 ins. in the ground for
 37.75
           1/4 sec. cor. marked 1/4 on N. face and raise a mound of stone 2 ft. base 1 1/2 ft. high N. of cor.
          No bearings available. Thence over rolling land.
          Set a limestone 24x8x6 ins. 18 ins. in the ground for
 77.75
           cor. of secs. 2,3, 34, & 35, marked with 2 notches on E. & 4 notches on W. edges and raise a mound of stone 2 ft.
           base 1 1/2 ft. high W. of cor.
          No bearings available.
          Land relling & broken.
         Soil, 2nd & 3rd rate, sandy stong.
         Timber, scattering walnut & willow in Canyon. Broken land intermediate, 37.75 chs.
         Rolling land 40.00 chs.
         N.89°57'E. bet. secs. 2 & 35.
        Over rolling land, asc. grad.
Road, brs. N. & S., from Crater mountain and S. to Sunshine station, on the North.
 9.75
 40.00 Set a limestone 24x12x8 ins. 18 ins. in the ground for
          1/4 sec. cor. marked 1/4 on N. face and raise a mound of stone covered with earth 3 1/2 ft. base 1/2 ft. high
         N. of cor., dig pits 18x18x12 ins. E.& W. of cor. 3 ft.
          dist.
        No bearings available.
         Top of rise, desc. grad.
 62.00
 80.00 Set a limestone 30x15x8 ins. 24 ins. in the ground for
        cor. of secs. 1,2, 35, & 36, marked with 1 notch on E. and 5 notches on W. edges and raise a mound of stone 2 ft. base 1 1/2 ft. high W. of cor.
        Land, rolling.
        Soil, 2nd rate, sandy, loamy.
        No timber. Undergrowth, scattering sage brush.
        Rolling land, 80.00 chs.
        N.89°57'E. bet. secs. 1 & 36.
 Over rolling land. desc. grad.

16.25 Foot of slope. Telephone line from Sunshine Station to camp of Standard Iron Co.on Crater mtn. brs. N. & S.
```

North Boundary T. 19 N. R. 12 1/2 E.

Chains
40.00

Set a limestone 30x24x8 ins. 24 ins. in the ground for 1/4 sec. cor. marked 1/4 on N. face and raise a md. 6f stone 2 ft. base 1 1/2 ft. high N. of cor.

No bearings available.

To cor. of Tps. 19 & 20 N. Rs. 12 1/2 & 13 E. as already established and described.

Land, rolling.

Soil, 2nd & 3rd rate, sandy, loamy.

No timber. Undergrowth, scattering sage brush.

Rolling land,80.00 chs.

Nov. 30,1908.

#### GENERAL DESCRIPTION.

The East bdy. of this Tp. runs over a rolling mesa through dense cedar for 2 miles entering a rich sandy flat on S.E. of Crater mountain.

Thence it ascends along Crater mountain over sandy rolling ridges emenating from crater mountain.

The north part is over a limestone formation partly covered with a sandy loam, which is the remains of the decomposition of the red sandstone, which once covered the entire country, and appears now only in isolated knolls of red sandstone.

The North bdy.is over rolling mesa land sparsely covered with native grass, the western 1/2 mile being over barren limestone bed rock.

Jess B Wright

J.S. Deputy Surveyor.

**(6)** 

BOOK 2118

Frac. North Boundary of T.19 N. R. 12 E.

Chains

Dec.1,1908, at the cor. of Tps. 19 & 20 N. Rs. 12 & 12 1/2

E. as recently re-established by me, Tat 8h a.m., 1.m.t. I

set off 21° 46'S on the decl. arc. and 35°05'90"N. on the
lat. arc and determine a true mer. with the solar.

Thence I run, as per instructions,

West on N. bdy sec. 1,

Var. 14 1/2° IE.

Over rolling land asc. grad.

Set a limestone 24x12x8 ins. 18 ins. in the ground for
1/4 sec. cor. marked 1/4 on N. face and raise a mound
of earth, 2 ft. base 1 1/2 ft. high N. of cor.

Dig pits 18x18x12 ins E. & W. of cor. 3 ft. dist.

No bearings available.

Set a limestone 24x10x9 ins. 18 ins. in the ground for

No bearings available.
Set a limestone 24x10x9 ins. 18 ins. in the ground for cor. of secs. 1,2,35 & 36, marked with 1 notch on E. & 5 notches on W. edges and raise a mound of stone 2 ft. base 1 1/2 ft. high W. of cor.covered with earth.
Dig pits 18x18x12 ins. in each sec. 5 1/2 ft. dist.
No bearings available.

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

No timber. Undergrowth, dense sage brush.

Rolling land covered with dense undergrowth 80.00 chs.

I return to the cor. of Tps. 19 & 20 N. Rs. 12 & 12 1/2 E and run thence,

South on a random line, for the purpose of examining the corners and testing the alinement of the 3rd Guide Meridian East.

At 40.08 chs., I find the old 1/4 sec. cor.4 lks. E. of my line, measuring from this cor. and continuing my line, at 40.00 chs. I search for old cor. as described in the field notes furnished by the Surveyor General. No sign of cor. found after diligent search.

I cintinue my measurement and line to the south using on this line 2 sets of chainmen and leaving temp. cors. at the mean of each measurement of 40 & 80 chs.

I find the old cors. in a dilapidated condition, several of them destroyed and the alinement out of limits in several cases.

At 5 Mi.79.85 chs., the original cor. of Tps.18 & 19 N. Rs. 12 & 12 1/2 E. as recently re-established by me is East, 30 lks. dist.

There being no subdivision as yet on either side of this line, from its condition as found by me I find it necessary to re-survey the line, and In the survey of same I throw the fractional measurement of 79.85 chs. in the last 1/2 mile to the North.

So I run the line from Tp.cor. to Tp. cor., the true bearing bet.cors. being N. 0° 02' W. & S. 0° 02' E.

8

C hains From the cor. of Tps. 18 & 19 N.RS. 12 & 12 1/2 E. as recently re-established by me, I run West, as per instructions on S. bdy sec. 36. Over rolling land. 66.00 Enter dense cedar, mostly dead. 40.00 Set a limestone 36x15x10 ins. 12 ins. in ground to bedrosk, with md. of stone around it, marked 1/4 on N. face and raise a mound of stone 2 ft. base 1 1/2 ft. high N. of cor. Trees in limits dead. No bearings available. 52.00 E. bank of Canyon Diablo, desc. abrupt 150 ft.
57.00 Middle of Canyon Diable 12 chs. wide course N.E. asc. abrupt. 64.00 Top of W. bank of Canyon Diablo, thence over rolling land 80.00 Set a limestone 30x12x6 ins. 24 ins. in the ground for Cor. of secs. 1,2,35,& 36, marked with 1 notch on E. & 5 notches on W. edges and raise a mound of stone 2 ft. base 1 1/2 ft. high W. of cor. form which, A cedar tree 12 ins. diam.brs N. 7/1/4. E. 147 lks.dist. marked T. 19 N.R. 1/12 E. S. 36 B.T. A cedar tree 12 ins. diam.brs.S.75 W.224 lks.dist. marked T.18 N. R. 12 E. S. 2 B.T. No other bearings available. Land, rolling.
Soil, stony, 3rd rate. Timber, cedar. Indergrowth, dense cedar.
Rolling land covered with dense undergrowth and care exceptionally difficult to survey, 80.00 chs. Dec. 1,1908.

The frac. N. bdy of this Tp. as run by me is over a rolling mesa, partly covered with sage brush. with good native grass in places.

No timber or water on the line.

The frac. S. bdy. of the Tp. as run by me is over a rolling mesa, covered with dense cedar., crossing Canyon Diablo, in which water is found at most seasons of the year in places. The cedar timber extends only about 1/4 mile to the west of the surveyed line.

J.S. Deputy Surveyor.

Re-survey 3rd Guide Meridian E. thro: Tps. 19 N.

```
Dec.2,1908
 Chains
          At the cor. of Tps. 18 & 19 N. Rs. 12 & 12 1/2 E. as as re-established by me on Nov.28,1908, I again examine
         and test carefully the adjustments of the transit and
         solar attachment, and finding same satisfactory at 8h Om. a.m., 1.m.t., I set off 21 55 S. on the decl. arc and
          35°0'N on the lat. arc and determine a true mer. with the
           solar. This mer. agrees with the mer. as established
         by polaris obs. by me on Nov.29, and by comparison also with the mer. of my random line of yesterday.
         From this last described cor. I run, N.0° 02° W. on a true line on 3rd Guide Meridian E.
              as determined by me on preceding day,
            bet. secs. 34 & 35.
          Over rolling land, through cedar timber.
          Difference bet. measurements of 40 chs. by 2 sets of chainmen is 6 lks., position of middle point, By 1st set 40.03 chs.
By 2nd set 39.97 chs., the mean on which is 40.00 Set a limestone 30x15x8 ins. on bed-rock in mound of
          stone 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.
                from which,
        A cedar tree 8 ins.diam.brs.S.80°E. 118 lks.dist.,
             marked 1/4 S. 34 B.T.
        A cedar tree 8 ind. diam.brs.S.40° W. 40 lks.dist.,
marked 1/4 S. 36 B.T.

40.30 Old 1/4 sec.cor. brs. E. 70 lks.dist., which I destroy.
         Desc. abrupt into canyon.
       Canyon Diablo 10 chs. wide, 150 ft. deep, course N.E. asc.
50.00 Top of mesa.
70.00 Leave cedar , enter dense sage brush.
        Difference bet. measurements of 80.00 chs.by 2 sets of
            chainmen is 8 lks., position of middle point,
By 1st set 80.04 chs.
By 2nd set 79.96 chs., the mean of which is 80.00 Set a limestone 24x12x8 ins. 18 ins. in the ground for
         cor. of secs. 27,34,25 & 36, marked with 1 notch on S. &
         5 notches on N. edges and raise a mound of stone 2 ft. base 1 1/2 ft. high W. of cor.
         No bearings available.
         Land, rolling, broken.
         Soil, 2nd & 3rd rate, gravelly, stony.
         Timber, cedar, scattering walnut & willow in canyon. Undergrowth, dense cedar & sage brush.
         Rolling land covered with dense undergrowth and
                 exceptionally difficult to survey, 80.00 chs.
        N. 0° 02' W. bet. secs. 25 & 27.
         Over rolling land, through dense sage brush.
 0.30 Old cor. brs. E. 65 lks.dist., which I destroy.
         Difference bet. measurements of 40 chs. by 2 sets of
         chainmen is 4 lks., position of middle point,
By 1st set 39.98 chs.
By 2nd set 40.02 chs., the mean of which is 40.00 Set a limestone 24x15x8 ins. 18 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.
          No bearings available.
No trace of old cor. found after diligent search.
          Difference bet measurements of 80.00 chs. by 2 sets of
          chainmen is 6 lks., position of middle point,
                                80.03 chs.
                 By 1st set
By 2nd set 79.97 chs., the mean of which is 80.00 Set a limestone 24x12x8 ins. 18 ins. in the ground for
         cor. of secs. 22,24,25 & 27 marked with 2 notches on S.&
         4 notches on N. edges and raise a mound of stone 2 ft.
         base 1 1/2 ft. high W.of cor. No bearings available.
         Land, rolling mesa. Soil, 2nd rate, gravelly, sandy.
         No timber, undergrowth, dense sage brush.
Rolling land, covered with dense undergrowth 80.00 che.
```

```
Chains
          N. 0° 02' W. bet, secs. 22 & 24.
          Over rolling mesa, through dense sage brush.
          Canyon, 80 lks. wide course N.E.
 3.50
         Difference bet. measurements of 40 chs. by 2 sets of
              chainmen is 4 lks., position of middle point,
                 By 1st set 40.02 chs.
                 By 2nd set 39.98 chs., the mean of which, is
40.00 Set a limestone 30x15x6 ins. 24 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.
           No bearings available.
No trace of old cor. found after diligent search.

70.00 Desc. abrupt into canyon, 150 ft. deep.

74.40 Canyon Diable 12 chs. wide, course N.N.W. asc. abrupt.

75.00 Windmill and tank of Standard Iron Co. brs. E. 1 ch. dist.
78.00 Top of mesa.
         Difference bet. measurements of 80.00 chs. by 2 sets. of
           chainmen is 10 lks., position of middle point,
           By 1st set, 80.05 chs.

By 2nd set, 79.95 chs., the mean of which is

Set a limestone 24x10x8 ins. 18 ins. in the ground for
80.00
             cor. of secs. 15,22,13 & 24, marked with 3 notches on
             S. & 3 notches on M. edges and raise a mound of stone 2 ft. base 1 1/2 ft. high W. of cor.
             No bearings available.
No trace of old cor. found after diligent search.
             Land, rolling.
             Soil, 2nd & 3rd rate, sandy, gravelly, stony. Timber, scattering walnut & willow in canyon.
             Undergrowth, dense sage brush.
Rolling land covered with dense undergrowth, 80.00 chs.
          N.0° 02'W. bet. secs. 13 & 15.
 Over level and open land.

2.00 Road, brs. R. & W.

19.60 Draw, 50 lks. wide, course W.
            Difference bet. measurements of 40 chs. by 2 sets of
               chainmen is 2 lks., position of middle point,
By 1st set, 39.99 chs.
By 2nd set, 40.01 chs., the mean of whice
                                                          the mean of which is
 40.00 Set a limestone 28x10x8 ins. 21 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.
 No bearings available.

No trace of old cor. found after diligent search.

62.00 Road, brs. N.E. & S.W.
           Difference bet. measurements of 80.00 chs. by 2 sets of
 chainmen is 8 lks., position of middle point,

By 1st set, 80.04 chs.,

By 2nd set, 79.96 chs., the mean of which is

80.00 Set a limestone 30x12x8 ins. 24 ins. in the ground for
                 cor. of secs. 10,12,13 & 15, marked with 4 notches on
              S. & 2 notches on N. edges and raise a mound of stone 2 ft. base 1 1/2 ft. high W. of cor.
              No bearings available.
              Evident remains of old cor. N.10° E. 55 lks.dist'.
                            which I destroy.
              Land, rolling gently, smooth and open.
              Soil, 2nd rate, sandy, gravelly, stony.
No timber or undergrowth. Good native grass.
             Smooth and open land 80.00 chs.
At this cor. at 11h,49m,30s. a.m.,1.m.t., I set off 21°
58.30" S. on the decl. arc and observe the sum on the mer.
The resulting lat..is 35°03'30" N.
```

Re-survey 3rd Guide Meridian E. thro! Tps. 19 N.

Chains N.0° 02' W. bet. Secs. 10 & 12. Over gently rolling mesa. Difference bet. measurements of 40 chs. by 2 sets of chainmen is 4 lks., position of middle point,
By 1st set, 39.98 chs. By 2nd set, 40.02 chs., the mean of which is

40.00 Set a limestone 30x10x10 ins. 24 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. No bearings available. No sign of old cor. found after diligent search. From this cor. desc.abrupt into canyon 150 ft. deep. 45.00 Canyon Diable, 9 chs. wide, course N.E., asc. steep. 49.00 Top of mesa. Difference bet. measurements of 80.00 chs. by 2 sets of chainmen is 14 lks., position of middle point, By 1st set, 80.07 chs.

By 2nd set, 79.93 chs., the mean of which is

80.00 Set a limestone 24x15x10 ins. 18 ins. in the ground for cor. of secs. 3,10 1 & 12, marked with 5 notches on S. & 1 notch on N. edges and raise a mound of stone 2 ft. base 1 1/2 ft. high W. of cor. No bearings available. No trace of old cor. found after diligent search. Land , rolling. Soil, 2nd & 3rd rate, sandy, gravelly, stony. No timber or undergrowth. Rolling land 80.00 chs. 00° 02° W. bet. secs. 1 & 3.
Over level land, through dense sage brush.
Find old 1/4 sec.cor. on line marked and witnessed as described by the Surveyor General. This old cor. I destroy. Difference bet. measurements of 40 chs. by 2 sets of chainmen is 6 lks. position of middle point, By 1st set, 40.03 chs.,

By 2nd set, 39.97 chs., the mean of which is

40.00 Set a limestone 24x12x8 ins. 18 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. No bearings available. 72.00 Canyon, 80 lks. wide, 30 ft. deep, course N.E. 79.85 To cor. of Tps.19 & 20 N., Rs. 12 & 12 1/2 E. as already established and described. Land, rolling. Soil, 2nd & 3rd rate, sandy, gravelly. No timber. Undergrowth, dense sage brush. Rolling land covered with dense undergrowth, 79.85 chs. --- Dec.2,1908. - GENERAL DESCRIPTION . This line runs over a rolling mesa, broken in the vicinity of this line by Canyon Diablo and its branches. The soil is in general a sandy loam, there being several small. tracts in the main canyon, very rich, and which could be irrigated by water from the canyon doring the greater part of the year.

Several dams for storing the water have been constructed, but are too small to be of much use except for cattle, being constructed of stone, and earth. There is some walnut timber in the main canyon, and some cedar timber along the S. portion of the line. The mesa over which this line runs extends about six to miles to the west, and is mostly covered with good native grass. J.S. Deputy Surveyor.

For authority for sed with corrections we Deputyo letters of May 2-1959.

.37

BOOK 2118

Re-eurvey 3rd Guide Meridian E. thro' Tps.19 N.

Boundaries of T. 19 N. R. 12 1/2 E. Latitudes, departures and closing errors.

	1					
Line Designated	True Bearing	Distance.	Latit	ude <b>s.</b>	Depart E.	ures.
S. Bdy.  3rd Gd.Mer.E.  N. Bdy. E. Bdy. Convergency	West	chs. 238.09 479.85 237.75 480.00	chs. 479.85 .22	chs.	chs. 237.75	chs 238.09 .28
	Totals,	Error in lat	- 480.07, 480.00	480.00,	238.26,	238.37 238. <del>26</del>

In surveying this township, I was compelled to administer the preliminary and final oaths to my assistants, as there was no notery or other officer available and great delay and expense would have been incurred to appear before such officer.

U.S.Deputy Surveyor.

# (13)

## FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

BOOK 2118

A list of the names of the individuals employed by July 19 Wright.  United States Deputy Surveyor, to assist in running.	4
	g, measuring, and
narking the lines and corners described in the foregoing field notes of the survey of	-
Bun 26. 19N R 12/2 F From 718 Star J. 19.	
showing the respective capacities in which they acted:	Z
$\mathcal{A}_{-}$	
Trans H. Devin	
Virgilius a. marris	
Bu a M Couley	$\frac{1}{n}$
John & Martin	, Marina
ally I, Smutz	, <del>Xlamlin</del> .
	,
Claude Morris	Flaaman
,	, Flagman.
FINAL OATH OF ASSISTANTS.	, Flagman.
We hereby certify that we assisted	r, in surveying all
FINAL OATH OF ASSISTANTS.  We hereby certify that we assisted Cool Maring Marin	r, in surveying all
FINAL OATH OF ASSISTANTS.  We hereby certify that we assisted Cool Burning Management of the Harmonian Cool Burning Man	r, in surveying all
FINAL OATH OF ASSISTANTS.  We hereby certify that we assisted Consultation of Management of Control	r, in surveying all
We hereby certify that we assisted Conditions of the Bloom of Control of Control of Control of the foregoing field notes as having been surveyed by him and under his direction; and the foregoing field notes as having been surveyed by him and under his direction; and the foregoing field notes as having been surveyed by him and under his direction; and the foregoing field notes as having been surveyed by him and under his direction; and the foregoing field notes as having been surveyed by him and under his direction; and the foregoing field notes as having been surveyed by him and under his direction; and the foregoing field notes as having been surveyed by him and under his direction; and the foregoing field notes as having been surveyed by him and under his direction; and the foregoing field notes as having been surveyed by him and under his direction; and the foregoing field notes as having been surveyed by him and under his direction; and the foregoing field notes as having been surveyed by him and under his direction; and the foregoing field notes as having been surveyed by him and under his direction; and the foregoing field notes as having been surveyed by him and under his direction; and the foregoing field notes as having been surveyed by him and under his direction; and the foregoing field notes as having the field	r, in surveying all
We hereby certify that we assisted	r, in surveying all  / 2 E  the Lucas  ch are represented  d that said survey  surveyed, and the
We hereby certify that we assisted	r, in surveying all  / 2 E  the Lucas  ch are represented  d that said survey  surveyed, and the
We hereby certify that we assisted	r, in surveying all  / 2 E  the Lucas  ch are represented  d that said survey  surveyed, and the
We hereby certify that we assisted	the Law ch are represented d that said survey surveyed, and the last Surveyor, Chainman.
We hereby certify that we assisted Control of Control of Control of the Control of Contr	the Law ch are represented d that said survey surveyed, and the d States Surveyor, Chainman.
We hereby certify that we assisted Consumer Manager Surveyor those parts or portions of the Assistance of Assistan	the Law ch are represented d that said survey surveyed, and the last Surveyor, Chainman.
We hereby certify that we assisted Constitution Management of the States Deputy Surveyor those parts or portions of the States Deputy Surveyor those parts or portions of the States Deputy Surveyor those parts or portions of the States Deputy Surveyor those parts or portions of the States Deputy Surveyor those parts or portions of the States Deputy Surveyor of States Deputy Survey	the Law ch are represented d that said survey surveyed, and the d States Surveyor, Chainman.
We hereby certify that we assisted Control Management of the Bolton of Management of the Bolton of Management of the Management of the Management of Managem	the Law ch are represented d that said survey surveyed, and the d States Surveyor, Chainman.
We hereby certify that we assisted Cook Maria Ma	the Law to the Law

BOOK 2118

## FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

• 1	
I, Jesse B Wright	, United States Deputy Surveyor, do
solemnly swear that, in pursuance of a contract received f	rom Frank & Digall
United States Surveyor General for	hearing date of the
Q 47th day of October 100.8	, I have well, faithfully, and truly, in my own
•	
proper person, and in strict conformity with the instruct	
General for, the Manual United States, surveyed all those parts or portions of	of Surveying Instructions, and the laws of the
United States, surveyed all those parts or portions of	In boundaries of
7/19NR 121/2 E, and	Franc M. + S. Han of
TIGNR 12 E.	
	0.1.1.0.1
	of the kela and Lat
Cery Base T meridian, in the Livetag of	which are represented in the
foregoing field notes as having been surveyed by me, and	
swear that all the corners of said survey have been establ	
·	— · · · · ·
the Manual of Surveying Instructions, and the special wri	·
General for and in the speci	fic manner described in the field notes, and that
the foregoing are the original field notes of such survey.	•
	$a \cdot b \cdot b$
<u>ICA</u>	ne BW right
	United States Deputy Surveyor.
Subscribed by said Assel Mrnght, and s	worn to before me)
16th June Dieembon 1	ma 8
this day of 70 300 70 , 13	No. 1
	Muchy
000000	
© SÉAL © 0000000	Manning
	<del></del>
APPROVA	<b>4L.</b>
OFFICE OF THE UNITED STATES	SURVEYOR GENERAL,
	Ph. I I I I I
	Morning Many Sept 3, 1909
$\mathcal{A}_{-}$	the Hell of the
The foregoing field notes of the survey of The Nor	it Paul a East found ones
S fractional St. 1971 Rg 12/1. E.	a faction of the routh
Med Outh Sandanie of	12.1971 Pa 12 & and the
0 4 2 7	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Mounty of the Just Suite	neudisa arough of 1/1.
executed by fisse Wught. // k	Seputy Surveyor
under his contract No. 152, dated Octob	in / 1908, having been
critically examined, and the necessary corrections and e	
•	apradations made, the said note notes, and the
surveys they describe, are hereby approved.	af I Ingall
Ma	
	United States Surveyor General.
I certify that the foregoing transcript of the field no	otes of the above-described surveys in
, has been correctly copie	ed from the original notes on file in this office.