FEB 13 1912

BOOK 2790 FIELD NOTES

OF THE SURVEY OF THE PART OF THE

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of the Stage Salf Typer (Same Sand	Meridian,
Origona	
AS SURVEYED BY	
Vace Comment, United	States Deputy Surveyor,
Under his Contract No. / 12 , dated,	, <u>19/0</u>
Survey commenced	
Survey completed	<u>, 19//</u>
6—151	

NAMES AND DUTIES OF ASSISTANTS.

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Jerke Beach	- Lagy or any

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81	32	33	34	8	35	5	36		
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- Notes in this book.

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PRELIMINARY OATHS OF ASSISTANTS.

- () ~ () ~ () -	1. Company of
WE, //set Johnson	and fill and and
	ally execute the duties of chainmen; that we will level the
	the tally pins, either by sticking or dropping the same; that
- · · · · · · · · · · · · · · · · · · ·	objects, and the true lengths of all lines that we assist in
-	
- Control of the cont	nd in accordance with instructions given us, in the survey of
Suldring 1/8X/	112 1 Hesency Ledy 116 NIME
•	PIT I
	Chainman.
	MI & Sahaan
	Thainman.
Subscribed and sworn to before me this	
$\langle f \rangle$	
day of	(Vineselettem
*******	1 Bleelestern
SEAL (*)	11. Del ula surren
1 000 / 1	
who the Landing	and
do colomnly eweer that we will well and tru	ly perform the duties of moundmen in the establishment
- A - A	us, to the best of our skill and ability, in the survey of
Sulchuncin	18/1/1/2/2
	Office Sanks
	Moundman.
	Marin Inc.
	, Moundman.
Subscribed and sworn to before me this	
	· · ·
day of	(Variable)
*****	1 seelle
(*) SEAL (*) *(東東東東	A Stelate Seway
On a la	
WE. Cell likery	and
	perform the duties of axmen in the establishment of corners
	en us, to the best of our skill and ability, in the survey of
	The day to the debt of year plant did dominy, in the but toy of
Juldumm	18/1/26
	Cliff W Isin, Axman.
V _m	Axman.
3	
Subscribed and sworn to before me this.	
day of Security 19//	
day of	Marchellens.
· (FEEEE)	11-6
N SEAL (N	US Delrey conga
I, Low / renels.	do solemnly swear that I will well and truly
perform the duties of flagman according to inst	ructions given me, to the best of my skill and ability, in the
survey of	mu 10 1 1 1 1 1
	Jester I pench, Flagman.
Subscribed and sworn to before me this	A
day of	(No realled)
ERFER	Villanden
M SEAL M	115 Dola la Sener
6—151	and the same of th
	& ∵ ₹

•	
Resur	vey of East Bdy of Township 18 North, Range 12 East.
Chains	
	for the cor. of Ts. 17 and 18 N., Rs. 12 and 12 E., I
	set off 22° 37' 30". S., on the decl. arc, 34° 54' 30"
	N., on the lat. arc., and determine the meridian with
,	the solar.
-	Thence I run N. bet., secs. 34 and 36, ascending
7 00	over rocky mountainous land.
1.06	The Transfer of the Transfer o
. 15.00	E., previously described.
. 25.00	Top of ascent, descend over, rolling land. After dili- sent search, I fail to find any trace of the old \(\frac{1}{4} \)
	sec. cor.
40.00	
	for \$\frac{1}{4}\$ sec. cor. of secs. 34 and 36, marked \$\frac{1}{4}\$ on W. face,
	and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high.
100	W. of cor. No trees near. Pits impracticable.
T C T T T T T T T T T T T T T T T T T T	Magnetic declination N. 14° 35' E.
40.00	Descending over rolling land.
42.00	the state of the s
45.00	The second secon
	After diligent search, I fail to find any trace of the old cor.
80.00	
	for cor. of secs. 25, 27, 34 and 36, marked with 1
	notch on S. edge, 5 notches on N. edge, dig pits 18 x
	18 x 12 ins. in each sec. 5 ft. dist., and raise a
	mound of earth, 4 ft. base, 2 ft. high, W. of cor.
	No trees near.
-	Magnetic declination N. 14. 35' E.
The state of the s	Land mountainous and rolling. Soil: sandy and rocky 2nd and 3rd rate. No timber.
	Undergrowth: White sage brush, and broom weed.
The state of the s	Land Mountainous, 15.00 chs.
Company of the Compan	Land rolling, 65.00 chs. Dec. 8, 1911.
The state of the s	
	Web
	February 26, 1913. At the above corner, I set off 8° 44' S. on the decl. arc, 34° 55' 30" N., on the lat. arc,
	and at 9:00 a.m., 1.m.t., determine a meridian with
	the solar.
	Thence I run N. bet. secs. 25 and 27.
	Ascending over rolling ground.
0.70	
6.00	
30.00	
40.00	Set a limestone 15 x 10 x 8 ins., 10 ins. in the ground for $\frac{1}{4}$ sec. cor. of secs. 25 and 27, marked $\frac{1}{4}$ on W.
	face; dig pits 18 x 18 x 12 ins., N. and S. of stone
	3 ft. dist., and raise a mound of earth 32 ft. base
	1½ ft. high W. of cor.
	After diligent search, I am unable to find any trace
	of the old corner.
00 '00	Magnetic declination N. 14° 30' E.
80.00	A limestone 15 x 12 x 8, set 10 ins. in the ground for
	cor. of secs. 22, 24, 25 and 27, marked 2 notches on the S. edge; 4 notches on the N. edge, 18 N on N.E.
AND COMMENT	face, 12 E on S.E. face, and raise a mound of stone
	2 ft. base, 1\frac{1}{2} ft. high, W. of cor. No trees near.
	Pits impracticable. On S. edge of Dog Valley.
	This corner was set Dec. 8. 1911.
•	Magnetic declination N. 14° 35' E.
	Land mountainous and rolling.
•	Soil sandy and rocky, 2nd and 3rd rate.
	No timber. Undergrowth: white sage brush, broom weed and grass
	Land rolling 80.00 chains. February 26, 1913.
•	

Dec. 8, 1911. At the above corner I set off 22° 39' S., on the decl. arc, and at 12:00 h. M. apparent time, I observe the sun on the meridian, and obtain on the lat.

	2 Resu	rvey of East Bdy. of Township 18 North, Range 12 East.
7	Chains	are the reading 34° 56'. N., which agrees with other
	onarne	data.
	1	Thence I run, N. bet. secs. 22 and 24
	8.00	Descending across Dog Valley. Road, Winslow to O'Toole's dipping camp, brs. E. and W.
	21.00	N. edge of Dog Velley. ascend steep rocky, 150 ft. bluil
	24.00	Ton steen hluff, ascend steep 200 ft. rise.
		On diligent search, I fail to find any trace of the
	40.00	old $\frac{1}{4}$ sec. cor. S. slope steep ascent, set a limestone 14 x 12 x 10 ins.,
	20100	q ins. in the ground. for # sec. cor. of secs. 22 and
		24, marked 4 on W. face, dig pits 18 x 18 x 12 ins.,
		N. and S. of stone, 3 ft. dist., and raise a mound of earth 32 ft. base, 12 ft. high, W. of cor. No trees
	,	near.
		Magnetic declination N. 14° 35' E. December 8, 1911.
		Feb. 26, 1913. From the above corner I run N. bet. secs.
		23 and 24, continuing measurement.
	73.00	Top of ascent, descend over rolling mesa.
	80.00	Set a limestone 18 x 12 x 6 ins., 12 ins. in the ground
		for cor. of secs. 13, 15, 22 and 24, marked with 3 grooves on N. and S. edges, dig pits 18 x 18 x 12 ins.
		in each sec. 54 ft. dist., and raise a mound of earth
		4 ft. base. 2 ft. high W. of cor.
		Magnetic declination N. 14° 35' E. Land mountainous and rolling. Soil sandy and rocky,
	•	2nd and 3rd rate.
		No timber. Undergrowth: grass, white sage brush, and
	, i	broom weed.
		Mountainous land, or land covered with limestone boulders 52.00 chains.
		Rolling land, 28.00 chains.
	_	
		N. bet. secs. 13 and 15. Descending over rolling
		maga t
	40.00	Set a limestone 18 x 12 x 4 ins., 12 ins. in the ground for $\frac{1}{2}$ sec. cor. of secs. 13 and 15, marked $\frac{1}{2}$ on W.
		fore dig nits 18 x 18 x 12 ins. N. and S. Of Stone
		3 ft. from cor. and raise a mound of earth 32 it. base
	45.00	12 ft. high W. of cor. Road to O'Toole's homestead brs. N.E. and S.W.
	80.00	A limestone 10 v 10 v 8 ins. set 12 ins. in the ground
		for some of goog. 10, 12, 13, and 15, marked with &
		notches on the N. edge, and 4 notches on the S. edge, 18 N on N.E. face, 12 E on S.E. face, dig pits 18 x
		12 w 19 ing. in each gec. b夫 It. 018U., ZUU IZIST G
		, mound of earth 4 ft. hase. 2 ft. high. W. OI COI. NO
		trees near. Magnetic declination N. 14° 30' E.
		This corner was set December 8, 1911. Land rolling. Soil sandy. Undergrowth: broomweed.
		Rolling land, 80.00 chs. February 26, 1915.
	·	
		December 8, 1911:
		N. bet. secs. 10 and 12.
		Descending over rolling mesa.
	17.00	
	20.00	nearch I fail to find any trace of the old 4 860. Col
	40.00	cet a limestone 15 x 12 x 10 ins. 10 ins. in the ground
		for $\frac{1}{4}$ sec. cor. of secs. 10 and 12, marked $\frac{1}{4}$ on W. face; dig pits 18 x 18 x 12 ins., N. and S. of stone,
		a st dist and raise a mound of earth of two base,
		all of high W of core No trees near.
	70.00	man of ridge, hrs. B. and W. descend. Alver willsom
	90.00	search, I fail to find any trace of the old cor. Set a limestone 18 x 15 x 4 ins., 12 ins. in the ground
	80.00	Ann com of door] 3]() and 12. market with I hoven
		I am M edge and 5 not ches on 5. edge, uis pivo io a
		18 x 12 ins. in each sec. $5\frac{1}{2}$ ft. dist., and raise a
	1	

Resi	rvey of East Bdy. of Township 18 North, Range 12 East.
Chains	mound of earth 4 ft. base, 2 ft. high, W. of cor. No trees near. Magnetic declination N. 15° E.
	Land rolling. Soil sandy, 2nd and 3rd rate. No timber. Undergrowth: White sage brush, and broom weed. Rolling land, 80.00 chains.
	N. bet. secs. 1 and 3. Descending over rolling land.
10.00	Bottom of descent, ascend.
23.00	Road O'Toole's homestead to Sunshine, brs. S.W. and N.E.
37.00	Top of ascent, descend. After diligent search, I fail to find any trace of the old 4 sec. cor.
40.00	Set a limestone 15 x 12 x 6 ins., 10 ins. in the ground for $\frac{1}{2}$ sec. cor. of secs. 1 and 3, marked $\frac{1}{2}$ on W. face; dig pits 18 x 18 x 12 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. No trees near.
79.81	Intersect S. bdy. of T. 19 N., R. 12 E., 3.53 chs. W. of cor. for Ts. 18 and 19 N., Rs. 12 and 12½ E., which is a limestone 24 x 10 x 8 ins.mkd. and witnessed as described by the Surveyor General. Set a limestone 18 x 12 x 6 ins., 12 ins. in the ground for closing cor. of T. 18 N., Rs. 12 and 12½ E., marked C C on S. face, 6 grooves on S. E. and W. faces, and raise a mound of stone 2 ft. base, 1½ ft. high, S. of cor. No trees near. Pits impracticable. Magnetic declination N. 15° E. Land rolling. Soil sandy and rocky. No timber. Undergrowth: white sage brush, and broom weed. Rolling land, 79.81 chs.
	December 8, 1912.

Voscoelessem.
U. S. Deputy Surveyor.

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Subdivision of Township 18 North. Range 12 East.
             Dec. 9, 1911, at the true meridian established by me at
Chains
                my camp, by observation on Polaris, I set off 22° 45'S., on the decl. arc, 34° 56'N., on the lat arc, and at 3:30 h., p.m., l.m.t., I determine a true meridian with the solar, and mark the meridian thus determined,
                5 chs. N. of my station, which falls 0.6 ins. E. of
                cross (X) established by observation on Polaris.
            Dec. 10, 1911, at my station, I set off 22° 49' S., on the decl. arc, 34° 56' N., on the lat. arc, and at 8:30 a.m., 1.m.t., determine a true meridian with the solar, and mark a point in same 5.00 chs. N. of my station,
                which point is 0.5 ins. W. of true meridian establish-
                ed by Polaris. I, therefore, judge the adjustments of
            my solar to be correct.

Dec. 10, 1911, at the cor. of secs. 1, 2, 35 and 36, I set off 22° 50' S. on the decl. arc, 34° 54' 30" N., on the lat. arc, and at 9:30 a.m., l.m.t., determine the
                true meridian with the solar.
             February 27, 1913. From the cor. of secs. 1, 2, 35 and 36 on the S. boundary, as described in book "L", I run N 0° 1' W., bet. secs. 35 and 36.

Descending over rolling land.
  15.00
            Enter dense cedars.
  40.00
            Set a limestone 20 x 10 x 8 ins., 16 ins. in the ground
                for 4 cor. of secs. 35 and 36, marked 4 on W. face,
                from which:
               A cedar 15 ins. in diam., brs. N. 82° E., 270 lks. dist., marked 2 S 36 B T.
                A cedar 10 ins. in diam., brs. S. 50° 15' W., 65 lks. dist. marked 2 S 35 B T.
                               Magnetic declination N. 14° 30' E.
                Leave dense cedars.
            A limestone 14 x 8 x 6 ins., set 9 ins. in the ground,
  80.00
                for cor. of secs. 25, 26, 35 and 36, marked with 1.
                notch on the S. edge, and 1 notch on the E. edge, dig
               pits 18 x 18 x 12 ins. in each sec. 5\frac{1}{2} ft. dist., and taise a mound of earth 4 ft. base, 2 ft. high, W. of cor. No trees near. Magnetic declination N. 14° 20' E.
                This corner was set December 10, 1911.
Land rolling. Soil sandy, 2nd and 3rd rate.
                No timber, 55.00 chs, Dense timber 25.00 chs.
                Undergrowth: Dense scrub cedar, white sage brush and
                   broom weed.
               Rolling land, covered with dense cedar brush, 25.00 chs. Rolling land, 55.00 chs. February 27, 1913.
            February 27, 1913:

From the cor. of secs. 25, 26, 35 and 36, I run
E. on a random line bet. secs. 25 and 36.
            Set temp. * sec. cor.
  40.00
 80.33
            Fall 35 lks. S. of cor. of secs. 25, 27, 34 and 36, as
                described in my original notes.

Thence I run S. 89° 45' W., on a true line bet.
                secs. 25 and 36.
 40.16 \pm Set a limestone 15 x 10 x 4 ins., 10 ins. in the ground
                for \(\frac{1}{4}\) cor. of secs. 25 and 36, marked \(\frac{1}{4}\) on N. face,
               dig pits 18 x 18 x 12 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.
                                             No trees near.
                high, N. of cor.
                            Magnetic Declination N. 14° 25' E.
*80.33 The cor. of secs. 25, 26, 35 and 36.

Land rolling. Soil sandy, 2nd rate. No timber.

Undergrowth: white sage brush.

Rolling land, 80.53 chs.
                                                                    February 27, 1913.
            December 10, 1911.
N. 0 1 W., bet. secs. 25 and 26.
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37.00

Ascending over rolling land.

Top of ascent, descend.

Subdivision of Township 18 North, Range 12 East. Chains Set a limestone 24 x 8 x 6 ins., 16 ins. in the ground, 40.00 for 4 sec. cor. of secs. 25 and 26, marked 4 on W. face and raise a mound of stone.2 ft..base, 12 ft. high, W. Magnetic declination N. 14° 20' E. Thence descending through draw, over rocky land. 55.00 Leave draw, ascend. Top W. bank of wash, marked a cross (X) on a limestone boulder 12 x 6 x 12 ins. above the ground for cor. of secs. 23, 24, 25 and 26, marked with 2 notches on the S. edge, and 1 notch on the E. edge., and raise a mound 80.00 of stone 2 ft. base, 12 ft. high, W. of cor. No trees near. Pits impracticable. Magnetic declination N., 14° 45' E. Land rolling and mountainous. Soil sandy and rocky, 2nd, 3rd and 4th rate. Timber none. Undergrowth: white sage brush and broom weed. Mountainous land, very steep slopes, and covered with loose limestone boulders, and exceptionally difficult to survey, 43.00 chains. Rolling land, 37.00 chains. At the cor. of secs., 23, 24, 25 and 26, I set off 22° 51 S., on the decl. arc, and at 12 h. M., 1.m.t., observe the sun on the meridian, and obtain on the lat. arc, the reading 34° 56' N., which agrees with other data.

Thence I run, N. 89° 58' E., on a random line, bet. secs. 24 and 25. Set temp. 4 sec. cor. Intersect E. bdy. of Tp. 6 lks. N. of the cor. of secs. 22, 24, 25 and 27. 40.00 79.98 Thence I run, N. 89° 59' W., on a true line, bet. . secs. 24 and 25. Ascending over rolling and mountainous land. Top of ascent, descend.

Set a limestone 15 x 12 x 10 ins., 10 ins. in the ground for \(\frac{1}{2} \) sec. cor. of secs. 24 and 25, marked \(\frac{1}{2} \) on the N. face, raise a mound of stone 2 ft. base, \(\frac{1}{2} \) ft. high, N. of cor. No trees near. Pits impracticable. 25.00 39.99 Magnetic declination N. 14 Descend steep bank of wash. 77.00 Bottom of wash, 50 lks. wide, brs. N.E., ascend. 78.50 To cor. of secs. 23, 24, 25 and 26. 79.98 Land rolling and mountainous. Soil sandy and rocky. No timber. Undergrowth: scattered scrub cedar, white sage brush and broom weed. Mountainous land, or land.covered with limestone bould+ ers, 3.00 chs. Mountainous land, \$6.98 chs. N. 0° 1' W., bet. secs. 23 and 24. Descending over rolling land.

Road, O'Toole's dipping pen to Winslow, prs. E. and W.

Set a limestone 15 x 12 x 10 ins., 10 ins. in the ground.

for \$\frac{1}{4}\$ sec. cor., of secs. 23 and 24, marked \$\frac{1}{4}\$ on the

W. face, and raise a mound of stone 2 ft. base, 1\frac{1}{2}\$. ft. 24.00 40.00 high W. of cor. No trees near. Pits impracticable.

Magnetic declination N. 14 40 E. December 10, 1911. February 27, 1913. From the above 4 sec. cor., I run N. 0° 1' W., bet. secs. 23 and 24, continuing measurement. Descending over rolling land. N. end of Dog Valley; asc. steep, rocky 200 ft. rise. 60.0Q Top of rise; descend over rolling land. Set a lime tone 15 x 10 x 8 ins, 10 ins. in the ground for cor. of secs. 13, 14, 23 and 24, marked with 3 77.00 80.00

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Subdivision of Township 18 North, Range 12 East.
             notches on the S. edge, 1 notch on E. edge, and raise a mound of stone 2 ft. base, 1 ft. high W. of cor.

Magnetic declination N. 14 45 E.
Chains
             Land mountainous and rolling.
             Soil sandy and rocky, 2nd, 3rd and 4th rate.
             No timber.
             Undergrowth:
                               white sage brush, broom weed, and grass.
             Mountainous land, and land covered with limestone boulders, very steep slopes, and exceptionally difficult to survey, 18.00 chs.
             Rolling land, 62.00 chs.
                                                       February 27, 1913
              December 11,1911:
          At the cor. of secs. 13, 14, 23 and 24, I set off 22° 55' S., on the decl. arc, 34° 57' N., on the lat. arc, and at 9 h., a.m., 1.m.t., I determine a true meridian with
              the solar.
                Thence I run S. 89° 59' E., on a random line, bet.
             secs. 13 and 24.
                Descending over rocky, mountainous land.
           Set temp. 2.sec. cor.
 40.00
           Intersect E. bdy. of T., 20 lks. S. of the cor. of secs.
 80.08
             13, 15, 22 and 24.
Thence I run S. 89° 52' W., on a true line.
             Ascending over mountainous land 100 ft.
           Top of ridge brs. N. and S., descend.
 35.00
           Set a limestone 15 x 8 x 6 ins., 10 ins. in the ground
 40.04
              for 2 sec. cor. secs. 13 and 24, marked 2 on the N. face, raise a mound of stone 2 ft. base, 12 ft. high N. of cor. No trees near. Pits impracticable.
                                                                       1 ft. high
           Magnetic declination N. 15 E. Bottom of descent, ascend steep, rocky; 200 ft. rise.
 56.00
           Top of steep slope, ascend over rocky land, through
 65.00
              dense cedars.
           The cor. of secs. 13, 14, 24 and 25.
Land mountainous, steep rocky slopes.
 80.08
              Soil sandy and rocky, 2nd, 3rd and 4th rate.
                                                 dense scrub cedar, white
              No timber. Undergrowth:
                 sage brush, and broom weed.
              Mountainous land, broken steep rocky slopes, or covered
                with dense underbrush, and exceptionally difficult
                 to survey, 80.08 chs.
                                                        December 11, 1911.
                        _____
          · February 27, 1913:
N. 0° 1' W., bet. secs. 13 and 14.
           Descending over rolling land.

A limestone 18 x 10 x 6 ins., set 12 ins. in the ground, for 4 sec. cor. of secs. 13 and 14, marked 4 on W. face,
 40.00
              and raise a mound of stone 2 ft. base, 12 ft. high, W.
                         No trees near, Pits impracticable.
              of cor.
                            Magnetic declination N. 15° E.
                 This corner was set December 11, 1911.
                                                          February 27, 1913.
          December 11, 1911.
I run N. 0° 1' W.
                                       From the above quarter-section cor.
          Road, Pat O'Toole's homestead, Canyon Diablo station brs.
39.60
             E. and W.
          Set a limestone 18 x 10 x 8 ins., 12 ins. in the ground,
 40.00
             for cor. of secs. 11, 12, 13 and 14, marked with 4 notches on S. edge, 1 notch on E. edge, 18 N on N.E. face, 12 E on S.E. face, and raise a mound of stone 2 ft. base, 12 ft. high W. of cor. No trees near.
             Pits impracticable.
                           Magnetic declination N. 15° E.
             Land rolling. . Soil sandy. . No timber.
          Undergrowth: white sage brush, and broom weed.
Rolling land, 80.00 chs.
At this cor. I set off 22° 56' 30" S., on the decl. arc, and at 12 h. M. apparent time, observe the sun on the
             meridian, and obtain on the lat. arc the reading 34°
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58' N., which agrees with other data.

December 11, 1911_

35.09

	8	Subdivision of Township 18 North, Range 12 East.
=	Chains	February 27; 1913. From the cor. of secs. 11, 12, 13
	Chains	and 14, I run N. 89° 52' E., on a random line bet. secs. 12 and 13.
	40.00	Set temp. 4 sec. cor.
	80.48	Fall 16 lks. S. of cor. of secs. 10, 12, 13, and 15, as
	33120	described in notes of the resurvey of the E. boundary
	•	of T. 18 N., R. 12 E.
		Thence I run S. 89° 45' W., on a true line bet.
		secs. 12 and 13.
		Descending over rolling land.
	40.24	Set a limestone 15 x 8 x 6 ins., 10 ins. in the ground
		for \$\frac{1}{4}\$ sec. cor. of secs. 12 and 13, marked \$\frac{1}{4}\$ on N.
	1	face, dig pits 18 x 18 x 12 ins. E. and W. of stone 3 ft. dist., and raise a mound of earth 32 ft. base 12
	1	ft. high N. of cor. Magnetic declination N. 15 E.
	80.48	The cor. of secs. 11, 12, 13 and 14. Land rolling. Soil
	00.40	sandy, 2nd and 3rd rate No timber. Rolling land 80.48
		chains.
	No.	From the cor. of secs. 2, 3, 34 and 35 on the S. bdy. of
		the township garages established by me and described
		in notes of the N. bdy. of T. 17 N., R. 12 E., I run
		N. 0° 1' W., bet. secs. 34 and 35.
	75 00	Descending over rolling, rocky land. Top of gulch, brs. E., descend steep rocky slope, 100 ft.
	15.00 16.50	Bottom of gulch, 20 lks. wide, ascend.
	20.00	
	23.93	Top of S. bank of Canvon Diablo, brs. W., impossible to
		chain, steep rocky, 200 ft. descent, and to determine
	, No.	the dist. across the canyon. I set a flag on line on
	106/	Mr Dank Or Carthant and medicate accept the contract of the co
	35/ 5	5.00 chs. to point from which the flag brs. N. 37° 30' E., therefore, tan. of 52° 30' x the base = 6.52 chs.,
	5.00 Z	which added to 23.93 chs.; makes 30.45 chs. to the N.
	389°59W	bank of the canyon.
	30.45	Top of N. bank of Canvon Diablo.
	40.00	Set a limestone 14 x 8 x 6 ins. 9 ins. in the ground,
		for + cor. of secs. 34 and 35. marked ± on W. 180e,
		raise a mound of stone 2 ft. base, 12 ft. high W. of
		Magnetic declination N. 14° 35' E.
	42.00	T
	50.00	N. hank of Canyon Diablo, descend.
	67.00	
		rocky slope of canyon.
	76.00	Bottom of descent, bottom N. bank of Canyon, brs. E.,
		ascend 50 ft.
	77.00	
	80.00	for cor. of secs. 26; 27, 34 and 35, marked with I
	- ,	notche con the S. edge. and 2 notches on E. edge, raise
		a mound of stone 2 ft. base. 15 ft. high W. OI Cor.
		Magnetic declination N. 14 45. E.
		Land mountainous and rolling.
		Soil sandy and rocky, 2nd, 3rd and 4th rate.
		No timber. Undergrowth: scattered scrub cedar, white
	•	sage brush, and broom weed. Land mountainous and rolling, with steep rocky slope,
		and covered with loose limestone boulders, and ex-
		ceptionally difficult to survey, 80.00 chains.
	• •	
		96 97 34 and 35 T min Re on 8
	,	From the cor. of secs. 26, 27, 34 and 35, I run E. on a random line, bet. secs. 26 and 35.
	40.00	
	40.00	Intersect N. & S. line, 10 lks. S. of cor. of secs. 25,
	20.10	26, 35 and 36.
		Thence I run S. 89° 56' W., on a true line bet.
	•	secs 26 and 35.
	77 00	Descending over mountainous and rolling land.
	35.00	
	: 35.09	Set a limestone 15 x 8 x 6 ins., 10 ins. in the ground,

Set a limestone 15 x 8 x 6 ins., 10 ins. in the ground,

	Subdivision of Township 18 North, Range 12 East. 9
Chains	for a witness cor. to $\frac{1}{4}$ sec. cor. of secs. 26 and 35, marked W C $\frac{1}{4}$ on N. face, and raise a mound of stone,
	2 ft. base, l ¹ / ₂ ft. high, N. of cor. No trees near. Pits impracticable. Magnetic declination N. 14° 45' E.
40.09	Point for \(\frac{1}{4} \) sec. cor. falls in Canyon Diablo, course N., impracticable to set cor.
55.00 60.15 80.18	Bottom W. bank of canyon, ascend 200 ft. Top W. bank of Canyon Diablo, ascend. The cor. of secs. 26, 27, 34 and 35. Land mountainous and rolling.
	Soil sandy and rocky, 2nd, 3rd and 4th rate. No timber. Undergrowth: scrub cedar, white sage brush, and broom weed.
	Land mountainous, and steep slopes, covered with loose rock, and exceptionally difficult to survey, 80.18 chs.
13.00	Thence I run N. 0° 1' W., on a true line, bet. secs. 26 and 27, over mountainous rocky land. Draw 1.00 ch. wide, brs. E., ascend.
40.00	Top of ascent, a limestone, 15 x 8 x 6 ins., set 10 ins. in the ground. for $\frac{1}{2}$ sec. cor. of secs. 26 and 27, mark-
	ed $\frac{1}{2}$ on W. face, dig pits $18 \times 18 \times 12$ ins., N. and S. of stone, 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high W. of cor. No trees near. This corner was set December 12, 1911.
	December 12, 1911. From the above quarter-section cor.
13.00	I run N. 0° 1' W. Top of W. bank of Canyon Diablo, line runs W. along perpendicular slope of Canyon Diablo, impossible to chain
: •	same. Thence I run S. 89° 58' W., 10.00 chs., thence N. 0° 1' W
40.00	
	cross (X) on a limestone boulder 24 x 12 x 18 ins. above the ground, for witness cor. to cor. of secs. 22, 23, 26 and 27, marked with 2 notches on S. edge.
	W.C on N.E. face, and raise a mound of stone 2 ft. base 12 ft. high W. of cor. No trees near. Pits impracticable.
	Land mountainous and rolling. Soil sandy and rocky, 2nd, 3rd and 4th rate. No timber. Undergrowth: scrub cedar, white sage brush,
	and broom weed. Land mountainous, steep rocky slopes, covered with loose rock, and exceptionally difficult to survey
	80.00 chs.
	At the true point for the cor. of secs. 22, 23, 26 and 27, I set off 23° 1' 30" S., on the decl. arc, and at
	12 h. M. apparent time, I observe the sun on the meridian, and obtain on the lat. arc the reading 34° 56 N. which agrees with other data.
	secs. 23 and 26.
40.00 80.05	Intersect N. and S. line, 4 lks. S. of cor. of secs. 23,
15.00	Thence I run, S. 89° 58' W., on a true line bet. secs. 23 and 26. 4.00 chs. N. to O'Toole,'s pasture fence cor., fence brs
20.00	N.and W. Top of rise, descend over rolling land.
40.02	In small draw, brs. N. set a limestone 15 x 10 x 8 ins.,

	Subdivision of Township 18 North, Range 12 East.
Chain	10 ins. in the ground for 4 sec. cor. of secs. 23 and
;	26, marked 2 on N. face, dig pits 18 x 18 x 12 ins. E.
	and W. of stone, 3 ft. dist., and raise a mound of earth
	$3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high N. of cor. No trees near. Magnetic declination N. 14° 35' E.
45.0	
48.0	
51.5	
71.0	
1100	pen, steam pump, and water tank, top of E. bank of Can-
	von Diablo, steep perpendicular slope, impossible to
	chain. to determine the dist. across the canyon, I set
. •	a flag on line on the W. bank of the canyon, and measure
	a base line N. O 2' W., 5.00 chs., to a point from
68°28W	which the flag brs. S. 68° 28' W., therefore, tan. 68°
89.58 W	30' x the base = 12.69 chs., the dist. across the can-
2 12.69	yon which added to 71.00 makes 83.69, top of W. bank
90	of canyon. The witness corner to cor. of secs. 22, 23, 26 and 27.
82.0	Land mountainous and rolling.
	Soil sandy and rocky, 2nd, 3rd, and 4th rate.
•	No timber. Undergrowth: scrub pine, white sage brush
	and broom weed.
	Tand mountainous, steep rocky slope, loose limestone
-	boulders, and exceptionally difficult to survey 80.05
•	chs.
•	
	T 70 5mg 30 70 00 0 T
	From true point for cor. of secs. 22, 23, 26 and 27, I
	run 5.00 chs. W. Thence I run, N. 0° 1' W., on an off-set line 5.00
	chs. W. of true line, bet. secs. 22 and 23, it being im-
-	possible to chain or triangulate. Desc. over rolling land
40.	
40.	9 ins. in the ground for 4 sec. cor. of secs. 22 and
C OR	23. marked $\frac{1}{2}$ on W. face. dig pits 18 x 18 x 12 ins.,
ne projection	N and S. of cor. 3 ft. dist. raise a mound of earth
- samp make one	지 ft. hage. 1분 ft. high W. of cor. No trees near.
	Magnetic declination N. 14 35' E.
58.	Enter side canyon, descending along side of canyon.
60.	Bottom of descent along canyon, ascend steep 100 It. Slope
62.	Top of ascent, descend.
71.	
80.	Top of ridge, set a limestone 15 x 8 x 6 ins., 10 ins. in the ground, for cor. of secs. 14, 15. 22 and 23,
	marked with 3 notches on the S. edge, 2 notches on the
al control of the con	E. edge, raise a mound of stone 2 ft. base, 12 ft. high
a	W. of cor. No trees near. Pits impracticable.
	Magnetic declination N. 15° E.
	Tend mountainous and rolling.
	Soil sendy and rocky. 2nd. 3rd and 4th rate.
	No timber. Undergrowth: scrub cedar, white sage brush,
a according	and broom weed.
Caracana de Caraca	Land mountainous and rolling, steep rocky slopes, and
	covered with loose rock, and exceptionally difficult
Will no management	to survey, 80.00 chs. December 12, 1911.
	December It' Istr.
Programme and the second	
	February 27, 1913. From the cor. of secs. 13, 14, 23
•	and 24 Trun S. 89° 49' W. on a true line, bet. secs
	14 and 23, descending steep 200 ft. into Dog Valley
. S TOUR AND S	Weeh
25.	Bottom of descent. Dog Valley Wash, 3. chs. wide, brs. N.
200	w escend steen rocky 200 ft. ascent.
39.	of the N.E. globe, A. limestone 18 X 8 X 9 118.
300	19 ing. in the pround. for # sec. cor. of secs. 14 and
Ì	2% marked - on N. face. With mound of Blone & Ive
B control of the cont	base, 12 ft. high N. of cor. No trees near. Fits im-
	nracticable.
: •	Magnetic declination N. 15° E.
1	

Chains	This corner was set December 13, 1911. February 27, 1913.
52.00 61.00	The state of the s
65.00	200 ft. descent. Bottom of canyon, 2.00 chs. wide, ascend steep W. slope.
70.80	
	Soil sandy and rocky, 2nd, 3rd and 4th rate. No timber. Undergrowth: scrub cedar, white sage brush, and broom weed
_	Mountainous land, steep slopes, and loose rocks, and exceptionally difficult to survey, 79.90 chs.
	From the cor. of secs. 14, 15, 22 and 23, I run N. O l' W., on a true line bet. secs. 14 and 15. Descending through dense cedars.
20.00	Leave dense cedars.
40.00	
	A cedar 6 ins. in diam., brs. S. 85° W., 15 lks. marked 4 S 15 B T. No other tree available. Pits im-
	practicable. Magnetic declination N. 15° E.
44.00 49.00 75.00	Top of cliff, ascend.
80.00	Set a limestone 18 x 8 x 6 ins., 12 ins. in the ground for cor. of secs. 10, 11, 14 and 15, marked with 4 notches on the S. edge; and 2 notches on the E. edge, raise a mound of stone 2 ft. base, 1½ ft. high, W. of
	cor. No trees near. Pits impracticable. Magnetic declination N. 15° E. Land mountainous.
	Soil sandy and rocky, 2nd, 3rd and 4th rate. No timber. Undergrowth: dense scrub cedar, white
	sage brush and broom weed. Land mountainous, with steep slopes covered with loose rocks, or dense cedar brush, and exceptionally difficult to survey 80.00 chs.
	At the cor. of secs. 10, 11, 14 and 15, I set off 23° 06' S., on the decl. arc, and at 12 h. M. apparent time, I observe the sun on the meridian, and obtain on the lat. arc. a reading 34° 58' N.
10.00	lat. arc, a reading 34° 58' N. Thence I run N. 89° 49' E., on a random line bet. secs. 11 and 14.
40.00 80.12	Intersect N. and S. line, 11 lks. S. of cor. of secs. 11. 12. 13 and 14.
23.00	Thence I run S. 89° 44' W., on a true line, descending towards Canyon Diablo. S. 10.00 chs. to homestead of Pat O'Toole's, frame house,
30.00	and sheep corral. Top E. bank, Canyon Diablo, steep, rocky 200 ft. descent,
3000	impossible to chain, to determine the dist. across the Canyon, I set a flag on line on W. bank, then measure a base line S. 0° 16' E., 8.00 chs. to a point from which the flag brs. N. 56° 32' W., therefore, tan. 56°
39000	16' x the base, or 1.497 x 8 = 11.98 chs., the distactors the Canyon, which added to 30.00 chs., makes
^ 48. 06	41.98 chs., the top of W. bank of Canyon. Set a limestone 15 x 8 x 6 ins., 10 ins. in the ground,

Subdivision of Township 18 North, Range 12 East.

Chains

12

for witness corner to $\frac{1}{4}$ sec. cor. of secs. ll and 14, marked W. C $\frac{1}{4}$ on N. face, raise a mound of stone $2\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high N. of cor. No trees near. Pits impracticable.

80.12

practicable. Cor. of secs. 10, 11, 14 and 15.

Land mountainous.

Soil sandy and rocky, 2nd, 3rd and 4th rate.

No timber. Undergrowth: scattered scrub cedar, white sage brush and broom weed.

Land mountainous, steep rocky slope, covered with loose rock, and exceptionally difficult to survey, 15.00

Rolling land 65.12 chs.

Dec. 13, 1911.

GENERAL DESCRIPTION.

Township 18 N., R. 12 E., is cut from N. to S. by Canyon Diablo, a winding precipitous canyon, from 200 to 300 ft. deep, and 7.00 to 27.00 chs. wide at the top; 1 to 3.00 chs. wide at the bottom, impossible to cross with a wagon.

Ridges in south half of the township are covered with cedars, N. half barren, except for white sage brush and broom weed. White sage brush and broom weed covers entire township. No water in the township, except in Canyon Diablo, 2 or 3 tanks, which will dry during a dry season.

Patrick O'Toole, settler, is located in sec. 14, frame house, sheep corral, and water tank.

U. S., Deputy Surveyor.

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES	1
A list of the names of the individuals employed by	Som
, United States Deputy Surveyor, to assist in run	ning, measuring, and
marking the lines and corners described in the foregoing field notes of the survey of	
Suldumen 1 18 N/1/2 EX LOdy	18/1/2Z
showing the respective capacities in which they acted:	
Hell Jamen	, Chainman.
Wil Schooners.	
Umlanten.	
Aff When	, Axmon.
Lerles French.	$\dots,$ $Flagman,$
FINAL QATH OF ASSISTANTS.	
We hereby certify that we assisted	u
, United States Deputy Surve	vor. in surveying all
· · · · · · · · · · · · · · · · · · ·	• • • •
hose parts or portions of the Sultannange 15	
$O: A \longrightarrow A$	of the
9. 4 meridian, [10] of Anyma v	
n the foregoing field notes as having been surveyed by him and under his direction; has been in all respects, to the best of our knowledge and belief, well and faithfull	•
corner monuments established, according to the instructions furnished by the Uni	• • •
General for Augustua	
MV-De Stepernouer	Chainman
Reft Julyoung	
Min Jaskem	
bliff Wilson	
Leder French	Axman.
gearer join on	\dots , $Flagman$.
Subscribed and sworn to before me this	
day of	Does
OCCOCCC C SEAL C CCCCCCCC	110
6–151	- my Juny

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, United States Deputy Surveyor, do
solemnly swear that, in pursuance of a contract received from Incult Sandala
United States Surveyor General for, bearing date of the
day of, 19/0, 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, the Manual of Surveying Instructions, and the laws of the
United States, surveyed all those parts or portions of
Housey Leely 18 N/17125.
of the STSN ST
meridian, in the of amount, 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 and in the specific manner described in the field notes, and that
the foregoing are the original field notes of such survey.
/facelestem_
United States Deputy Surveyor.
Subscribed by said Ascor C. Jan, and sworn to before me)
this 3/ day of January, 19/2
Ballonia Ballonia
000000
United States Commissions
Moter division of Motemadistries
APPROVAL.
OFFICE OF THE UNITED STATES SURVEYOR GENERAL,
The foregoing field notes of the survey of
The foregoing field notes of the survey of
Phoenix arigna Nov. 24, 1948
The foregoing field notes of the survey of
The foregoing field notes of the survey of
The foregoing field notes of the survey of the Subdivision Lines in Jp. 18 MR. 12 G and the Resurvey of the Each Boundary of Jp. 18 MR. 126. of the
The foregoing field notes of the survey of
The foregoing field notes of the survey of the Subdivision Lines in Ip. 18 MR. 12 E. and the Resurvey of the Each Boundary of Ip. 18 MR. 12 E. of the Sila and Selt River Base and Mericlian, Arigona
The foregoing field notes of the survey of the Indivision Lines in 1/2 18 M-R. 12 E and the Resurvey of the East Boundary of 1/2 1/8 M-R. 12 E of the Sila and Salt River Base and Meridian Arigona executed by Roscoe E. Ham, U.S. Defutty Surveyor
The foregoing field notes of the survey of the Subdivision Lines in Jp. 18 MR. 12 G and the Resurvey of the Each Boundary of Jp. 18 MR. 126. of the
The foregoing field notes of the survey of the Indivision Lines in 1/2 18 M-R. 12 E and the Resurvey of the East Boundary of 1/2 1/8 M-R. 12 E of the Sila and Salt River Base and Meridian Arigona executed by Roscoe E. Ham, U.S. Defutty Surveyor
The foregoing field notes of the survey of the Subdivision Lines in Yo. 18 MR. 12 E and the Resurvey of the East Boundary of Jp. 18 MR. 12 E of the Sila and Selt River Base and Meridian Angona executed by Roscoe 6. Ham, U.S. Defeutty Surveyor under his contract No. 162, dated Jan. 5 (19/8, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the
The foregoing field notes of the survey of the Subdivision Lines in Jp. 18 MR. 12 E and the Resurvey of the East Boundary of Jp. 18 MR. 126 of the Sila and Selt River Base and Merician Origina executed by Roscoc 6. Ham, U.S. Deputy Surveyor under his contract No. 162, dated Jan. 5, 19/0, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved. An and I Ingalle
The foregoing field notes of the survey of the Subdivision Lines in Ip. 18 MR. 12 E and the Resurvey of the East Boundary of Ip. 18 MR. 12 E of the Sila and Selt River Base and Meridian Angeria executed by Roscoe C. Ham, U.S. Defetty Surveyor under his contract No. 162, dated Jan. 5 19/0, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved. The Anal Lagalle Unifed States Surveyor General.
The foregoing field notes of the survey of The Indivision Lines in Ip. 18 MR. 12 E and the Resurvey of the Each Boundary of Ip. 18 MR. 12 E and the Sila and Salt River Base and Menilian Angona executed by Roscoe C. Ham, U.S. Defeutly Surveyor under his contract No. 16 2, dated Jan. 5 , 19/1, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved. Shaul I Ligall Unifel States Surveyor General. OF ARIZONA.
The foregoing field notes of the survey of the Subdivision Lines in Ip. 18 MR. 12 E and the Resurvey of the East Boundary of Ip. 18 MR. 12 E of the Sila and Salt River Base and Meridian Angona executed by Roscoe E. Ham, U.S. Defulty Surveyor under his contract No. 162, dated Jan. 5 190, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved. The March States Surveyor General.
The foregoing field notes of the survey of The Subdivision Lines in Ip. 18 MR. 12 E and the Resurvey of the Earl Boundary of Ip. 18 MR. 12 E of the Gila and Selt River Base and Meridian Angona executed by Roccoe G. Ham, U.S. Defectly Surveyor under his contract No. 16 2, dated Jan. 5
The foregoing field notes of the survey of the Subdivision Lines in Ip. 18 MR. 12 E and the Resurvey of the Earl Boundary of Ip. 18 MR. 12 E of the Gila and Selt River Base and Merician Augma executed by Roccoe G. Ham, U.S. Defectly Surveyor under his contract No. 16 Z., dated Jan. 5