Book "F"

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FIELD NOTES

OF THE SURVEY OF THE

	Subdivi	sion lines of Tr	. 22 S. Rg. 16	E.
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2058		C		2056
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o	of the Gila	and Salt River	Meridia	n,
	Terr	itory of Arizona	**************************************	
		AS SURVEYED E	BY	
.	John F. Hesse		, United States De	outy Surv eye
ide r his Con	tract No. 142	, dated	ember 10	, 1906
rv ey comm e	nced July 1	13		
rve g grap le	ted July 2	25	· · · · · · · · · · · · · · · · · · ·	, 1907
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NAMES AND DUTIES OF ASSISTANTS.

	A, N. Oliver	Chainman	
			4
·	T. E. Manning	Chainman	
	Jeaquin Quiroga	Axman	
	and the second second second second	e per en la companya de la companya	
·	R. M. smith	Flagman	
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BOOK 2058

Book ho 2058 INDEX DIAGRAM.

Tou	unship 2	2 S	, Range	16 E	
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Meanders Page.....

WE, A. N. Oliver and T. E. Manning do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level it chain upon even and unoven ground, and plumb the tally pins, either by sticking or dropping the same; the we will report the true distances to all notable objects, 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 the subdivision lines of Tp. 22 S. Rg. 16 R. Chainme Subscribed and sworn to before me this day of My, 1907 WR, and do solemnly swear that we will well and truly perform the duties of moundmen in the establishm of corners, according to the instructions given us, to the best of our skill and ability, in the survey Moundm Subscribed and sworn to before me this day of 190 Wr, I. Jouquin Quiroga made do solemnly swear that we will well and truly perform the duties of axman in the establishment of corn and other duties, according to instructions given me, to the best of my skill and ability, in the subdivision lines of Tp. 22 S. Rg. 16 R. Subscribed and sworn to before me this day of My, 1907 John John Moundm Subscribed and sworn to before me this day of My, 1907 John John My, Moundm Subscribed and sworn to before me this St. Am Subscribed and sworn to before me this St. day of My, 1907 John John My, Moundm Subscribed and sworn to before me this St. Am Subscribed and sworn to before me this St. Am Subscribed and sworn to before me this St. Am Subscribed and sworn to before me this St. Am Subscribed and sworn to before me this St. Am Subscribed and sworn to before me this St. Am Subscribed and sworn to before me this St. Am Subscribed and sworn to before me this St. Am Subscribed and sworn to before me this St. Am Subscribed and sworn to before me this St. Am Subscribed and sworn to before me this St.	(IC)	2058	PRELIM	IINARY OAT	HS OF ASS	SISTANTS.	
do solemnly swear that we will level and faithfully execute the duties of chainmen; that we will level that upon even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; the we will report the true distances to all notable objects, 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 the subdivision lines of Tp. 22 S. Rs. 16 R. Chainment of the subdivision lines of Tp. 22 S. Rs. 16 R. Why and the subdivision of corners, according to the instructions given us, to the best of our skill and ability, in the survey of the subdivision lines of Tp. 22 S. Rs. 16 R. Subscribed and sworn to before me this do solemnly swear that we will will and bruly perform the duties of axman in the establishment of corners and other duties, according to instructions given us, to the best of mark skill and ability, in the survey the subdivision lines of Tp. 22 S. Rs. 16 R. Subscribed and sworn to before me this day of the subdivision lines of Tp. 22 S. Rs. 16 R. Subscribed and sworn to before me this day of the subdivision lines of Tp. 22 S. Rs. 16 R. Subscribed and sworn to before me this day of the subdivision lines of Tp. 22 S. Rs. 16 R. Subscribed and sworn to before me this day of the subdivision lines of Tp. 22 S. Rs. 16 R. Subscribed and sworn to before me this day of the subdivision lines of Tp. 22 S. Rs. 16 R. Subscribed and sworn to before me this day of the subdivision lines of Tp. 22 S. Rs. 16 R. Subscribed and sworn to before me this day of the subdivision lines of Tp. 22 S. Rs. 16 R.)O/~		<u> </u>	re r	and T	. E. Manning	
Subscribed and sworn to before me this WE, and do solemnly swear that we will well and truly perform the duties of moundmen in the establishm of corners, according to the instructions given us, to the best of our skill and ability, in the survey of the subdivision lines of Tp. 22 S. Rg. 16 E. We, I, R. M. Smith do solemnly swear that ivill well and truly perform the duties of arms in the establishment of corn and other duties, according to instructions given us, to the best of my skill and ability, in the survey of the subdivision lines of Tp. 22 S. Rg. 16 E. John J. House, Arm Arm Arm Arm Subscribed and sworn to before me this day of July 1907 John J. Hessel U. J. Apply Surveys I, R. M. Smith do solemnly swear that I will well and the perform the duties of flagman according to instructions given us, to the best of my skill and ability. In Arm Arm Subscribed and sworn to before me this day of July Surveys Subscribed and sworn to before me this S. S. Rg. 16 E. Subscribed and sworn to before me this S. S. Rg. 16 E.	c	lo solemnly sweethain upon even	ar that we will wel and uneven ground	Il and faithfully on the factor of the standard plumb the factor of the standard part of the	execute the dutiestally pins, either ects, and the true	es of chainmen; the by sticking or drop the lengths of all li	hat we will level the oping the same; that nes that we assist in
Subscribed and sworn to before me this						Ool	- 1: · · ·
Subscribed and sworn to before me this						7. Colum	, Chainman
We, and do solemnly swear that we will well and truly perform the duties of moundmen in the establishm of corners, according to the instructions given us, to the best of our skill and ability, in the survey of the subdivision lines of Tp. 22 S. Rg. 16 E. Subscribed and sworn to before me this day of July 1907 F. M. Smith do solemnly swear that I will well and truly perform the duties of axman in the establishment of corner and other duties, according to instructions given me, to the best of major skill and ability, in the survey of the subdivision lines of Tp. 22 S. Rg. 16 E. Subscribed and sworn to before me this day of July Surveys I. R. M. Smith do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of the subdivision lines of Tp. 22 S. Rg. 16 E. Subscribed and sworn to before me this State of the subdivision lines of Tp. 22 S. Rg. 16 E. Subscribed and sworn to before me this State of the subdivision lines of Tp. 22 S. Rg. 16 E. Subscribed and sworn to before me this State of the subdivision lines of Tp. 22 S. Rg. 16 E.					1.(. I (am	Chainmar Chainmar
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Subscribed and sworn to before me this day of		WE,			and		
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Subscribed and sworn to before me this day of				,			
Subscribed and sworn to before me this day of	٠						*
we, I. Jouquin Quiroga do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corn and other duties, according to instructions given me, to the best of mysr skill and ability, in the survey the subdivision lines of Tp. 22 S. Rg. 16 E. Subscribed and sworn to before me this. day of July 1907 John Hesse U. Reputy Surveys I, R. M. Smith , do solemnly swear that I will well and the perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of the subdivision lines of Tp. 22 S. Rg. 16 E. Subscribed and sworn to before me this Subscrib		·		4			,
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Subscribed and sworn to before me this day of July 1907 I, R. M. Smith do solemnly swear that I will well and the perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the subdivision lines of Tp. 22 S. Rg. 16 E. Subscribed and sworn to before me this day of July 1907 Asm Asm Asm Asm Asm Asm Asm As		do solemnly sw	ear that we will w	ell and truly perf	form the duties o	of axmen in the est	ablishment of cornelity, in the
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Subscribed and sworn to before me this		•		* * * * * * * * * * * * * * * * * * *	Jorque	in Luiso	Axme
I, R. M. Smith , do solemnly swear that I will well and to perform the duties of flagman according to instructions given me, to the best of my skill and ability, in survey of the subdivision lines of Tp. 22 S. Rg. 16 E. Subscribed and sworn to before me this day of July 1907			•	•	0		, Axmo
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perform the duties of flagman according to instructions given me, to the best of my skill and ability, in survey of the subdivision lines of Tp. 22 S. Rg. 16 E. Subscribed and sworn to before me this day of July 1907		•	*****			U. J. Wepu	y surveyor
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Subscribed and sworn to before me this Side of July 1907							skin and aumity, in
day of July , 1907) 0 1 10 11	. ~	∻survey of <u>t</u>	ne suodivisi	an IIMes of	R	· M) &	MIA Flagm
day of July , 1907) Of March		Subscribed an	d sworn to before	me this	}		
W. S. Deputy Lervey					Jol	w I. S.	lesse
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No notary available without loss of time and great expense.

Chains

Survey commenced July 13, 1907, and executed with a Young and Sons light mountain transit, No. 7532, with solar attachment. The horizontal limb is provided with two doub ble verniers placed opposite to each other, reading to single minutes of arc, which is also the least count of the verniers of the latitude and declination arcs.

The instrument was examined, tested on the true meridiat Phoenix, found correct, and was approved by the

surveyor general for Arizona

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

At the south end of the meridian established by me July 9, and which was permanently established I set off 31° 33' N. on the lat. arc; 21° 58' N. on the dec'l. arc; and, at 7h. 00m. a.m., l.m.t., mark a point in the meridian determined with the solar, by a cross on the stone set 5 chs. N. of my station; this mark coincides with the

meridian established by the Polaris observation.

At 3h. 00m. p.m., l.m.t., I set off 31° 33' N. on the lat. arc; 21° 55' N. on the dec'l. arc; and mark a point in the meridian determined with the solar, by a cross on the stone already set 5 chs. N. of my station; this mark coincides with the meridian established by the Polaris observation.

The solar apparatus, by a.m., and p.m., observations, defines positions for meridians, which coincide with the meridian determined by the Polaris observation; therefore I conclude that the adjustments of the instrument are satisfactory.

The magnetic bearing of the true meridian at 7h. 15m. a.m., is N. 13° 21' W.; the angle thus determined gives the mean mag. dec'l. 13° 21' E.

July 13, 1907.

July 14; At 7h. 00m. a.m., l.m.t., I set off 31° 32' N/ on the lat. arc; 21° 49 1/2' N. on the dec'l. arc; and determine a meridian with the solar at the cor. of secs. 1, 6, 7 and 12 on the west boundary of the township. Thence I run

East on sectional correction line bet. secs. 6 and 7. 0.05 Over level land.

0.05 Cross fence bears N. W. and S. E.

0.65 Cross fence bears N. and S.

2.00 cross road bears N. and S.

4.27 cross drain 10 lks. wide course S.

5.38 Right bank of Sonoita Creek, dry, course S. W.

6.72 Left bank of Sonoita Creek.

15.50 Cross fence bears N. and S. 17.50 Cross fence bears N. W. and S. E.

18.30 Cross levee, bears S. W. and N. E. 20.00 Left bank of Sonoita Creek, dry, course N. W.

20.65 Cross fence bears N. and S. 21.75 Right bank of Sonoita Creek. 22.88 Cross fence bears N. W. and S. E.

27.71 A point from which

S. W. cor. G. Piper's house bears N. 40 1/2° W. 3.42 chs. Adobe house N. 72° E.

A. E. Crepin's house N. 79° E.

Cross on Catholic Church bears S. 42 $1/2^{\circ}$ W. Smokestack on smelter bears S. 22° E.

33.27 Cross fence bears N. W. and S. E.

33.67 Cross road bears N. W. and S. E.

33.99 cross fence bears N. W. and S. E. 34.44 Cross road bears N. E. and S. W.

.37.55 Set a malpais stone 16 x 16 x 6 ins. 11 ins. in the ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ 06 on N. face; from which

- A mesquite 4 ins. diam., bears N. 83 3/4° E. 326 lks. dist., marked 06 186BT.

A mesquite 8 ins. diam., bears S. 21 $3/4^{\circ}$ E. 56

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\$000 - 10

Subdivision of Tp. 22 S. Rg. 16 E. lks. dist., marked 06487BT.

Eromsthesed beerscor.HI takesthe following bearings. 47.72 Adobe house bears NN . H21ah /28 . WW. Aroks Crapenbarhouse hearadns. 36° E. 45.77 Cross on Catholic Church bears S. 65 1/4° W. Smokestack on Smelter bears S. 14 1/4° W. cross fence bears N. E. and S. W. 42.97 43.73 45.77 cross road bears N. E. and S. W. cross fence hears N. E. and S. W. Cross telegraph line bears N. E. and S. W. 46.03 Cross Southern Pacific Railroad track, bears N. E. and 47.17 S. W. Cross fence bears N. E. and S. W. Cross levee bears N. E. and S. W. 47.75 48.20 Right bank of Sonoita Creek, dry, course S. W. 56.65 Left bank of Sonoita Creek. 58.57 Right bank of Harshaw wash, dry, 60 lks. wide, course 66.00 S. 85° W. and along in same. Point for cor. of secs. 5, 6, 7, and 8 falls in bed of 77.55 wash. Land, level. Soil, loamy, 1st. rate. No timber. July 14; At this cor. I set off 21° 47' N. on the dec'l. arc; and observe the sun on the meridian at noon, the resulting lat. is 31° 32' N./ East on sectional correction line bet. secs. 5 and 8 grom true point for cor. Along in wash. Leave wash at point of confluence with Red Rock wash 9.25 Harshaw wash bears S. 85° E. and Red Rock N. E. Set a limestone 18 x 10 x 10 ins. 12 ins. in the ground 19.00 for witness cor. of secs. 5, 6, 7, and 8, marked woo6 on N. E. with 5 notches on S. and E. edges; dig pits 18 x 18 x 12 ins. in each sec. 5 1/2 ft. dist., and raise a mound of earth 4 ft. base, 2 ft. high, W. of cor cross fence bears N. W. and S. E. 33.35 Left bank of Red Rock wash, dry, course N. W. 35.66 Right bank of Red Rock wash. 38.58 Set a granite stone 20 x 10 x 6 ins. 15 ins. in the ground for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ 06 on N. face; from which A mesquite 10 ins. diam., bears N. 20 $\frac{1}{4}$ ° E. 76 40.00 dist., marked 06\frac{1}{4}S5BT.

A mesquite 10 ins. diam., bears S. 82° E. 244 ** lks. dist., marked 06 188BT. Ascend S. W. slope. 42.00 cross fence beas S W. and N. E. 43.37 Over mesa through scattering mesquite. 47.00 Cross fence bears N. and S. 61.74 cross drain in ravine course S. 69.20 Cross drain in ravine course S. 74.20 Set a granite stone 18 x 10 x 8 ins. 12 ins. in the ground 80.00 for cor. of secs. 4, 5, 8 and 9, marked 06 on N. E. face, with 5 notches on S. and 4 notches on E. edges; and raise a mound of stone 2 ft. base, 1 1/2 ft. high W. of cor. Pits impracticable. This cor. is identical with the old cor. which I destroy. Land, level, and hilly.
Soil, loamy and stony; 1st. and 3rd. rate.

July 14, 1907.

July 15; At 7h. 00m. a.m., l.m.t., I set off 31° 32' N. on the lat. arc; 21° 41' N. on the dec'l. arc; and determine a meridian with the solar at the cor. of secs. 4, 5, 8, and 9. Thence I run

No timber.

Undergrowth, mesquite.

Chains. East on a sectional correction line bet. secs. 4 and 9. Over mesa. 1.00 Descend. 3.30 Cross wash 15 lks. wide course S. 7.00 Cross wash 6 lks. wide course S. W. and ascend. 10.00 Over mesa. 12.88 E. P Cook's house bears S. 52 1/2° E. Cross wash 5 lks..wide course S. 19.20 26.63 E. P. Cook's house bears S. 26° E. W. C. Fortune's house bears N. 36° E. 12.60 chs. dist. 27.00 Descend N. E. slope into valley. 33.00 Enter valley and over level land through dense sacaton and mesquite brush. 35.00 Right bank of Red Rock wash, dry, course s. 36.50 Left bank of Red Rock wash. 40.00 Set a granite stone 18 x 6 x 6 ins. 12 ins. in the ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ 06 on N. face; from which A mesquite 4 ins. diam., bears S. 58° W. 191. lks. dist., marked 06489BT. A mesquite 4 ins. diam., bears N. 35° W. 83 lks. dist., marked 06 484BT. From this cor., the old cor., which I destroy hears N. 24° W. 74.1ks. dist. 44.86 Cross fence bears N. W. and S. E. 45.50 Cross wash 12 lks. wide course S. W. 46.00 Leave brush, ascend steep N. W. slope through oak timber 55.00 Along N. slope. 57.00 Descend steep N. E. slope. 62.20 Cross wash 15 lks. wide course N. W. and ascend steep W. slope. 70.00 Leave timber. 80.00 Set a granite stone 18 x 6 x 6 ins. 12 ins. in the ground for cor. of secs. 3, 4, 9 and 10, marked 06 on N. E. face with 5 motohes on S. and 3 notches on E. edges; and raise a mound of stone 2 ft. base, 1 1/2 ft. gigh W. of cor. Pits impracticable. Land, level and mountainous. Soil, loamy, stony and rocky; 1st., 3rd, and 4th. rate. Timber, oak. Undergrowth, mesquite and sacaton. Mountainous land and land covered with dense undergrowth 80.00 chs. At this cor. I set off 21° 38' N. on the dec'l. arc; and observe the sun on the meridian at noon July 15, the resulting lat. is 31° 32' N. / East on a sectional correction line bet. secs. 3 and 10 Ascending steep .W. slope. 8.00 Ridge bears N. W. and S. and descend through eak timber. 38.80 Cross wash 20 lks. wide course N. E. and ascend. Set a granite stone 18 x 12 x 6 ins. 12 ins. in the ground for \(\frac{1}{4} \) sec. cor., marked \(\frac{1}{4} \) 06 on N. face; from which An oak 10 ins. diam., bears S. 16° W. 28 lks.

dist., marked 06\(\frac{1}{4} \) SlOBT. An oak 18 ins. diam., bears N. 50° W. 79 lks. dist., marked 064S3BT. 50.00 Along steep S. slope, leave timber. 70.00 Descend Steep S. E. slope. 80.00 Set a granite stone 18 x 8 x 6 ins. 12 ins. in the ground for cor. of secs. 2, 3, 10 and 11, marked 06 on N. E. face, with 5 notches on S. and 2 notches on E. edges, from which An oak 8 ins. diam., bears N. 60° W. 150 lks. dist., marked 06T22SR16ES3BT. No other trees available. Raise a mound of stone 2 ft. base 1 1/2 ft. high, W. of cer. Pits impracticable. Land, mountainous.

Soil, stony; 3rd. rate

Mountainous land, 80.00 chs.

Timber, oak.

July 15, 1907

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Subdivision of Tp. 22 S.
chains.
         July 16; At 7h. 00m. a.m., l.m.t., I set of 31° 32' N. on the lat. arc; 21° 31 1/2' N. on the dec'l. arc; and
         determine a meridian with the solar at the true printcsor
         cor. of secs. 5, 6, 7, and 8.
                                                             true
         Thence I run
         North on a random line bet. secs. 5 and 6.
  40.00 Set temp \frac{1}{4} sec. cor. 79.13 Intersect N. bdy. of Tp. 7 lks. E. of the cor. of secs.
         5, 6, 31 and 32.
         Thence I run
         S. 0° 03' E. on a true line bet. secs. 5 and 6.
         Descending along steep S. E. slope.
   9.00 cross wash 10 ks. wide course S. W. and ascend N. W. slope
  13.25 Ridge bears N. E. and S. W. and descend
19.35 Cross wash 6 lks. wde course S. W. and ascend.
23.50 Ridge bears N. E. and S. W. and descend.
  31.30 cross wash 6 lks. wide course S. W. and ascend.
  33.80 Point ridge bears N. E. and S. W. and descend.
  38.94 Cross fence bears E. and W. and over
  39.13 Set a blue sand stone 24.x 14 x 14 ins. 18 ins. in the
         ground for \frac{1}{4} sec. cor. marked \frac{1}{4} 06 on W. face, from which
                  A mesquite 8 ins. diam., bears N. 45° W. 231
                        lks. dist., marked 06\frac{1}{4}S6BT.
                  A mesquite 4 ins. diam., bears S. 20° E. 445.
lks. dist., marked 06 485BT.
  40.90 Cross wash 10 lks. wide course S. E.
  45.50 Along on side of hill.
  53.00 Over level land.
  56.41 Cross fence hears N. E. and S. W.
  57.75 Cross road bears N. E. and S. W. 58.32 Cross fence bears N. E. and S. W.
  58.80 Cross telegraph line bears N. E. and S. W.
  59.30 Cross Southern Pacific Railroad track bears N. E. and
         S. W.
  60.22 Cross fence bears N. E. and S. W.
         Irrigating ditch 8 lks. wide course S. W.
  62.10
  63.00 Right bank of Sonoita Creek dry, course S. W.
  64.65 Left bank of Sonoita Creek
  79.13 The point for cor. of secs. 5, 6, 7 and 8.
         Land, mountainous and level.
          Soil, loamy and stony; 1st. and 3rd. rate.
         No timber.
          July 16: At this cor. I set off 21° 28 1/2' N. on the
          dec'l. arc; and observe the sun on the meridian at noon,
          the resulting lat. is 31° 32' N.
         From the cor. of secs. 4, 5, 8, and 9 I now run North on a random line het. secs. 4 and 5.
  40.00 Set temp. \frac{1}{4} sec. cor.
  79.49 Intersect N. bdy. of Tp. 45 lks. E. of the cor. of secs.
          4, 5, 32 and 33.
          Thence I run
          S. 0º 19' E. on a true line bet. secs. 4 and 5.
          Descend.
    0.50 cross wash 5 lks. wide course S. W. and ascend.
    9.40 Ridge bears N. E. and S. W. and descend.
   25.00 Cross wash 10 lks. wide course S. W. and exernalat.
   29.00 cross wash 6 lks. wide course W. and ascend.
  Set a granite stone 18x 10 x 6 ins. 12 ins. in the ground for \( \frac{1}{4} \) sec. cor., marked \( \frac{1}{4} \) 06 on W. face; and raise a mound of stone 2 ft. base 1 1/2 ft. high W. of cor.
          Pits impracticable.
   39.89 Cross fence hears E. and W.
   44.20 Ridge bears N. E. and S. W. and descend S. E. slope.
  .55.50 Cross drain 5 lks. wide course E.and descend along E.
          slope.
          cross drain 5 lks. wide course E.
   64.50
   71.50 cross drain 5 lks, wide course E.
   73.50 Cross drain 5 lks. wide course E.
   77.50 Over mesa.
   79.49 The cor. of secs. 4, 5, 8, and 9. Land mountainous and level.
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Soil, stony; 3rd; rate. No timber. Mountainous land 73.49 chs.

July 16, 1907.

July 17; At 7h. 00m. a.m., l.m.t., I set off 31° 32' N on the lat. arc; 21° 21 1/2' N./on the dec'l. arc; and determine a meridian with the solar at the cor. of secs. 3, 4, 9 and 10.

Thence I run

North on a random line bet. secs. 3 and 4. 40.00 Set temp. $\frac{1}{4}$ sec. cor.

80.12 Intersect N. bdy. of Tp. 55 lks. E. of the cor. of secs. 3, 4, 33 and 34, I return to the cor. of secs. 3, 4, 9 and 10

Thence I run North on a true line bet. secs 3 and 4.

Ascend along steep S. W. slope.

12.00 Ridge bears N. W. and S. E. and descend steep N. E. slope through scattering oak timber.

27.00 Cross wash 6 lks. wide course N. W. 28.20 Cross wash 10 lks. wide course W.

35.50 Cross wash 10 lks wide course N. W.

40.00 Set a granite stone 18 x 14 x 6 ins. 12 ins. in the ground for \$\frac{1}{4}\$ sec. cor., marked \$\frac{1}{4}\$ 06 on W. face, from which An oak 4 ins. diam., bears S. 76 1/2° W. 109 lks. dist., marked 06 \$\frac{1}{4}\$S4BT.

An oak 8 ins. diam., bears N. 40° E. 208

lks. dist., marked 06 483BT.
45.00 Left bank of Red Rock Wash dry course W.

49.42 Right bank of Red Rock wash, and ascend.
80.12 Intersect N. bdy. of Tp. 55 lks. E. of cor. of secs.
33 and 34 and set a granite stone 18 x 10 x 6 ins. 12 ins. in the ground for closing cor. of secs. 3 and 4, marked CC 06 on S. face, with 3 grooves on E. and W. faces; from which

An oak 6 ins. diam., bears S. 19 1/2° E. 136 lks. dist., marked CCO6T22SR16ES3BT. An oak 6 ins. diam., bears S. 35 $1/2^{\circ}$ W. 197 lks. dist., marked CCO6T22SR16ES4BT.

Land, mountainous.

Soil rocky; 4th. rate.

Timber, oak.

Mountainous land, 80.12 chs.

July 17; At this cor. I set off 21° 19' N. on the dec'l. arc; and observe the sun on the meridian at noon, the resulting lat. is 31° 33' N.

From the cor. of secs. 2, 3, 10 and 11 I now run North bet. secs. 2 and 3. Ascend steep S. E. slope.

8.00 Top of mountain ridge bears E. and W. and descend steep N. slope, through scattering oak timber.

40.00 Set a granite stone $18 \times 10 \times 6$ ins. 12 ins. in the ground for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ 06 on W. face, and raise a mound of stone 2 ft. base, $1 \frac{1}{2}$ ft. high W. of cor. pits impracticable.

40.10 Cross wash 6 lks. wide course N. E. 43.25 Cross wash 10 lks. wide course N. E.

51.50 Cross wash 10 lks. wide course N. E.

61.82 Left Bank of RedRock wash course W.

63.00 Right bank of Red Rock wash, and ascend.

68.40 Cross wash 100 lks. wide course S. W.
80.20 Entersect N. bdy. of Tp. 1.40 chs. E. of the cor. of secs. 34 and 35, and set a granite stone 24 x 8 x 8 ins. 18 ins. in the ground for closing cor. of secs. 2 and 3, marked CC06 on S, with 2 grooves on E. and 4 grooves on W. faces; from which

An oak 14 ins. diam., bears S. 28° E. 109 lks. dist., marked CCO6T22SR16ES2BT

An oak 6 ins. diam., bears S. 19 3/4° W 166 lks. dist., marked CC06T22SR16ES3BT.

Land, mountainous. Soil, rocky, 4th. rate.

Timber, oak.

Mountainous land, 80.20 chs.

July 17, 1907.

July 18; At 7h. 00m. a.m., l.m.t., I set off 31° 32' N. on the lat. arc; 21° 11 1/2' N. on the dec'l. arc; and determine a meridian with the solar at the cor. of secs. 5, 6, 7 and 8.

Thence I run

S. 0° 03' E. bet. secs. 7 and 8, from true point for cor. Center of Harshaw wash 60 lks. wide course W. Set a granite stone 20 x 8 x 8 ins. 15 ins. in the ground

0.20 1.00

for witness cor. of secs. 5, 6, 7, and 8, marked WCO6 on N. E. face; with 5 grooves on S. and E. edges; dig pits 18 x 18 x 12 ins. in each sec. 5 1/2 ft. dist. and raise a mound of earth 4 ft. base, 2 ft. high W. of cor.

Thence over level land. Cross fence bears E. and W. 18.62

cross road bears E. and W. 19.10

Telephone line bears E. and W. 19.50

cross fence beas E. ad W. 19.56

23.00 Ascend.

Over mesa. 29.50

33.10

Cross drain 5 lks. wide course N. W. Set a malpais stone 18 x 8 x 6 ins. 12 ins. in the ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ 06 on W. face; and raise a mound of stone 2 ft. base 1 1/2 ft. high, W. of 40.00

cor. Pits impracticable. Cross wash 8 lks. wide course N. W.

48.00 Cross wash in ravine 10 lks. wide course W. 59.85

cross wash 10 lks. wide course N. W. 74.90

cross fence bears E. and W. 79.35

Set a granite stone 18 x 12 x 4 ins. 12 ins. in the ground for cor. of secs. 7, 8, 17 and 18, marked 06 on N. E. face, with 4 notches on S. and 5 notches on E. edges; and raise a mound of stone 2 ft. base, 1 1/2 ft. high W. of cor. Pits impracticable.

From this cor. a granite stone marked with 4 grooves on S and 5 grooves on E. faces set firmly in the ground with a mound of stone W. of it bears S. 76° 15' E. 183 lks. dist.

Land level and hilly.

Soil, loamy and stony; 1st. and 2nd. rate.

No timber.

west bet secs. 7 and 18.

Over mesa.

cross fence bears S. 75° W. and N. 75° E. 2.31 Cross wash 10 lks. wide course N. and ascend.

Ridge bears N. and S. and descend. 13.50

ascend along N. E. slope. 15.00

Intersect E. bdy. of the San Jose de Sonoita P. L. G. 9.41 chs. S. 56° 25' W. of the S.E. Corner of Grant survey, and set a granite stone 18 x 14 x 8 ins. 12 ins. in the ground for closing cor. of secs. 7 and 18, marked CCO6 on E., SJDS on W., with 4 grooves on S. faces; from which

An oak 6 ins. diam., bears N. 85 3/4° E. 95 lks. dist., marked CCO6T22SR16ES7BT. An oak 8 ins. diam., bears S. 35 $1/4^{\circ}$ E. 45 lks.

dist., marked CCO6T22SR16ES18BT. The old closing cor. which I destroy bears S. 56° 25' W. 73 lks. dist.

Land, level and hilly. Soil, stony; 2nd rate. No timber.

9.65

80,00

16.88

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Subdivision of Tp. 22 S. Rg. 16 E.
Chains.
         At this cor. I set off 21° 08 1/2' N. on the dec'l. arc; and observe the sun on the meridian at noon July 18,
         the resulting lat. is 31° 31 1/2' N. \sqrt{}
         From the cor. of secs. 4, 5, 8 and 9 I now run S. 0° 02' E. bet. secs. 8 and 9.
         Over mesa descending.
  6.75
         Cross wash 8 lks. wide course S.
         Enter valley and over level land through scattering
14.50
        mesquite.
         Right bank of Red Rock wash course W.
16.10
17.00
        Left bank of Red Rock wash.
20.00
         A point from which Mrs. W. C. Fortune's house bears
         5.59 1/4^{\circ} W.
        James Brash's house bears S. 73 1/4° W.
21.55
         Cross road bears N. E. and S. W.
        Cross wash 100 lks. wide course w.
28.00
30.00
        Ascend.
        Top ridge bears E. and W. and descend.
32.50
           From this point Mrs W. C. Fortune's house bears N.60°W
           James Brash's house bears S. 88° W.
        A point from which G. A. Fiedler's house bears S. 42° W.
.32.90
           S. L. Parke's house bears S. 65° W.
35.00
        Bottom of ridge and over level land.
35.97
        Cross fence bears E. and W.
38.00
        Over little point.
        Set a granite stone 18 x 10 x 6 ins. 12 ins. in the ground for \frac{1}{4} sec. cor.m marked \frac{1}{4} 06 on W. face; from
40.00
        which
                 A mesquite 4 ins. diam., bears S. 36° W. 266.
                       lks. dist., marked 06\frac{1}{4}SBT.
                 A mesquite 4 ins. diam., bears S. 60° E. 66 lks. dist., marked 06 $29BT.
        From this cor. G. A. Fiedler's house bears S. 65° W.
        S. L. Parke's house bears S. 75° W.
45.20
        Cross fence bears E. and W.
        Cross telephone line bears E. and W.
45.27
        Cross road bears E. and W.
45.40
50.53
        Cross ditch 5 kks. wide course w.
53.60
        Cross Harshaw wash 100 lks. wide course W.
54.20
        Cross fence bears E. and W.
60.20
        Leave valley and ascend.
        Cross wash 10 lks. wide course N. E.
67.80
70.50
        Cross wash 6 lks. wide course N. E.
78.00
        Cross wash 6 lks. wide course N. E.
        Set a malpais stone 20 x 16 x 10 ins. 15 ins. in the ground for cor. of secs. 8, 9, 16 and 17, marked 06 on N. E. face, with 4 notches on S. and E. edges; from.
80.00
        which
                An oak 10 ins. diam., bears N. 34 1/2° E. 62
                      lks.dist., marked 06T22SR16ES9BT.
                An oak 6 ins. diam., bears S. 4 3/4° E. 234 lks. dist., marked 06T22SR16ES16BT
                An oak 12 ins. diam., bears S. 78 1/2^{\circ} W. 111
                      lks. dist., marked 06m22SR16ES17BT.
                An oak 10 ins. diam., bears N. 32° W. 42
                      1ks. dist., marked 06T22SR16ES8BT.
       Land, level and mountainous.
       'Soil, leamy and stony; 1st. and 3rd. rate.
       No timber.
        Scattering mesquite.
       Mountainous land 24.80 chs.
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40.00 80.12 West on a random line bet. secs. 8 and 17

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

Intersect N. and S. line 21 lks. E. of the cor. of secs. 7, 8, 17, and 18.

Thence I run

N. 89° 51' E. on a true line bet. secs. 8 and 17. Over mesa,

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8,778
                            Subdivision of Tp. 22 S. Rg. 16 E.
      chains.
                  Cross wash in ravine 10 lks. wide course N.
        13.00
                  Cress canal 30 kks. wide course N.
         15.33
                  cress fence bears N. and S.
         34.27
                  cross wash 10 lks. wide course N.
         35.90
                 Cross drain 6 lks. wide course N. Set a limestone 18 x 8 x 6 ins. 12 ins. in the ground for \frac{1}{4} sec. cor., marked \frac{1}{4} 06 on N. face; from which
         39.60
         40.06
                           A juniper 12 ins. diam., bears N. 45° E. 51 lks. dist., marked 06 188BT.

An oak 5 ins. diam., bears S. 2 1/2° E. 98 lks. dist., marked 06 1817BT.
                  Thence through scattering timber.
                  cross wash 8 lks. wide course N.W.
         42.50
                  Cross wash 10 lks. wide course N. The cor. of secs. 8, 9, 16 and 17.
         50.00
         80.12
                  Land, nearly level mesa. Soil, stony; 3rd. rate.
                  Timber, oak.
                                                                   July 18, 1908
                  July 19; At 7h. 00m. a.m., l.m.t., I set off 31° 32! N. on the lat. arc; 21° 01' N. on the dec'l. arc; and
                  determine a meridian with the solar at the cor. of secs.
                  3, 4, 9 and 10.
                  Thence I run
                  S. 0° 02' E. bet. secs. 9 and 10 Descend along S. W. slope of mountain Cross wash 10 lks. wide course W.
          8.30
                  Gross wash 6 ks. wide course W.
         16.10
                  Cross wash 6 lks. wide course W.
         17.45
                  Gress wash 6 lks. wide course W.
         28.00
                  cross wash 6 lks. wide course W.
         29.30
                  Set a granite stone 18 x 14 x 3 ins. 12 ins. in the ground for \frac{1}{4} sec. cor. marked \frac{1}{4} 06 on W. face; from
          40.00
                  which
                            An oak 6 ins. diam., bears S. 45° W. 167 lks. dist., marked 06 289BT.
                            A mesquite 6 ins. diam., bears N. 73° E. 179
                                  lks. dist., marked 06 1810BT.
                  Cross wash 8 kks. wide course W. and ascend.
          41.60
                  Ridge bears E. and W. and descend.
          44.00
                  Cross wash 6 lks. wide course W. and ascend.
          47.70
                  Ridge bears E. and W. and descend.
          50.00
                   cross wash 6 lks. wide course W. and ascend.
          52.45
                   cross wash 6 lks. wide course W.
          57.85
                   Ridge bears E. and W. and descend.
          60.00
                   Cross wash 6 lks. wide course W. and ascend. Cross ridge, bears E. and W. and descend.
          61.70
          64.00
                  .cross read bears E. and W.
          64.25
                  Cross wash 8 lks. wide course W. and ascend.
          65.90
                   Ridge and old road bears S. W. and N. E. and desc.
          71.35
                   Cross wash 8 lks. wide course S. W. and ascend through
          77.50
                  dnese mesquite brush.
                   Top spur and descend.
          78.80
                   Cross wash 8 lks. wide course W. and ascend. Set a porphyry stone 18 x.8 x 4.ins. 12 ins. in the
          79.25
          80.00
                   ground for cor. of secs. 9, 10, 15 and 16, marked 06 on
                   N. E. face, with 4 notches on S. and 3 notches on E.
                   edges; from which
                            An oak 14 ins. diam., bears N. 46° E. 94
                            lks. dist., marked 06T22SR16ES10BT.
An oak 12 ins. diam., bears S. 834 E. 59
                                   lks. dist., marked O6T22SR16ES15BT.
                             An oak 10 ins. diam., bears S. 0° 15' W. 396
                                   lks. dist., marked 06T22SR16ES16BT.
                             A mesquite 4 ins diam., bears N. 68° W. 105
                                   lks. dist., marked O6T22SR16ES9BT.
                   Land, mountainous.
                   Soil, stony; 3rd. rate.
                   No timber.
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Mountainous land, 80.00 chs.

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Subdivision of Tp. 22 S. Rg. 16 E.
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chains.
          July 19: At this cor. I set off 20° 58' N. on the dec'l.
          arc; and observe the sun on the meridian at noon, the resulting lat. is 31° 31 1/2' N.
          West on a random line bet. secs. 9 and 16.
         Set temp. \frac{1}{4} sec. cor. Intersect N. and S. line 3 lks. S. of the cor. of secs.
 40.00
 79.90
         8, 9, 16 and 17,
         Thence I run
S. 89° 59' E. on a true-line bet. secs. 9 and 16.
         Along N. E. slope of mountain.
Cross wash 10 lks. wide course N. E.
  3.75
         cross wash 10 lks. wide course N. E.
  9.00
 11.20
         Cross wash 10 lks. wide course N.
 13.00
         A shaft bears N. 30 lks. dist.
 14.50
         Cross wash 12 lks. wide course N. W.
         Cross wash 10 lks. wide course N.
 27.80
 29.00
         Cross wash 8 lks. wide course N.
         Hoist frame bears S. 37 1/2° E. 7.00 chs. Tent bears S. 48° E. 3.50 chs. Cross wash 6 kks. wide course N. Cross drain 5 lks. wide course N.
 32.00
 38.30
 39.40
         Set a blue porphyry stone I8 x 8 x 6 ins. 12 ins. in
 39.95
         the ground for \frac{1}{4} sec. cor., marked \frac{1}{4} 06 on N. face; from
         which
                        k 10 ins. diam., bears S. 40° W. 30 lks. dist., marked 06 4816BT.
                  An oak 10 ins. diam.
                  An oak 12 ins. diam.,
                                             bears N. 65° E. 42 lks.
                        dist., marked 06 189BT.
         Cress road bears. N. and S.
 42.00
 43.25
         Cross wash 15 lks. wide course N.
         Cress wash 6 lks. wide course N.
 46.00
         Cress telephone line bears N. W. and S. E.
 48.00
 49.80
         House bears N. 57 1/2° E.
         Shaft house bears N. 57 1/2° E.
55.75
         Over level land.
         Cross road bears N. and S.
56.10
         cross wash 10 lks. wide course N. E.
58.50
63.00
        .Cross Harshaw wash 50 lks. wide course N. W.
        cross wash 10 lks. wide course N. W.
64.00
64.20
         Ascend.
         Spur bears N. E. and S. W. and descend.
70.00
         Cross wash 20. lks. wide course S. W., and ascend through
78.50
         dense mesquite and oak brush.
         The cor. of secs. 9, 10, 15 and 16. Land, level and mountainous.
79.90
         Soil learny and rocky; 1st. and 4th. rate.
         Timber, a few scattering oaks.
        Mountainous land 71.45 chs.
                                                       July 19, 1907.
        July 20: At 7h. 00m. a.m., 1.m.t., I set off 31° 32' N. on the lat. arc; 20° 50 1/2' N. on the dec'l. arc; and
        determine a meridian with the solar at the cor. of secs.
        2, 3, 10 and 11,
        Thence I run
S. 0° 01' E. bet. secs. 10 and 11.
        Descend steep S. slope of mountain.
        Set a granite stone 18 x 10 x 6 ins. 12 ins. in the ground for \frac{1}{4} sec. cor., marked \frac{1}{4} 06 on W. face; from
40.00
                 A mesquite 4 ins. diam., hears N. 80° W. 119 lks. dist., marked 06\frac{1}{4}S10BT.
                 An oak 8 ins. diam., bears N. 45° E. 296 lks. dist., marked 06 4811BT.
        Thence through scattering oak timber.
43.70
        Cross wash 6 lks. wide course E.
        Cross wash 10 lks. wide course S. W.
61,50
        Cross wash 30 lks. wide course S. W. and ascend steep N.
64.40
        slope.
80.00 set a porphyry stane 20 x 10 x 6 ins. 15 ins. in the grou
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chains.
          ground for cor. of secs. 10, 11, 14 and 15, marked 06
          on N. E. face, with 4 notches on S. and 2 notches on
          E. edges; from which
                   An oak 8 ins. diam., bears N. 31° E. 114
                   lks. dist., marked 06T22SR16ES11BT.

An oak 6 ins. diam., bears S. 57° E. 72
lks. dist., marked 06T22SR16ES14BT.
                  An oak 6 ins. diam., bears S. 2º W. 44
                          lks. dist., marked 06T22SR16ES15BT.
                   An oak 6 ins. diam., bears N. 50° W. 12
                          lks. dist., marked 06T22SR16ES10BT.
          Land, mountainous.
          Soil, stony; 3rd. rate.
          Timber, oak.
          July 20: At this cor. I set off 20° 47 1/2' N. on the dec'l. arc; and observe the sun on the meridian at meen
          the resulting lat. is 31° 31 1/2' N.
          west on a random line bet. secs. 10 and 15.
  40.00 set temp. \frac{1}{4} sec. cor.
  80.12 Intersect N. and S. line at the cor. of secs. 9, 10, 15
          and 16.
          Thence I run
          East on a true line bet. secs. 10 and 15.
          Ascend.
          Ridge hears N. and S. W. and descend.
  3.50
          Cross wash 10 lks. wide course N. and ascend steep W. sldp
  8.55
          of mountain.
          Top mountain and desc. Sarano's house bears S. 22°E.
 29.00
          Cross wash 6 lks. wide course S. and along S. slope.
Set a porphyry stone 18 x 6 x 6 ins. 12 ins. in the ground
 36.20
 40.06
          for \(\frac{1}{4}\) sec. cor., marked \(\frac{1}{4}\) 06 on N. face; from which an oak 4 ins. diam., bears N. 8 W. 46 lks.
                          dist., marked 064s10BT.
                   An oak 10 ins. diam., bears S. 9° W. 45 lks. dist., marked 064S15BT.
          From this cor. the line runs over rocky bluffs descending
           into canyon impossible to chain therefore I offset 15.00
           chs. N. thence E. 40.06 chs. thence S. 15.00 chs. to the
           cor. of secs. 10, 11, 14 and 15.
          Cross wash 30 lks. wide course S. W. (estimated on line.)
The door to techniq, 11, 14 and 15.
 68.00
 80.12
                                                 Soil, rocky, 4th rate.
          band, mountainous pate.
           Timber, oak.
           Mountainous land 80.12 chs.
                                                          July 20, 1907.
          July 21: At 7h. 00m. a.m., l.m.t., I set off 31° 31 1/2' N. on the lat. arc; 20° 39' N. on the dec'l..arc; and
           determine a meridian with the solar at the cor. of secs.
           9, 10, 15 and 16,
Thence I run
           S. 0° 02' E. bet. secs. 15 and 16.
           Ascend
    5.45 Top ridge bears E. and W. and descend.
           House noted on line bet. secs. 9 and 16 bears N. 40° W. Shaft house bears N. 31° W. Sarano's house bears S. 47° E.
           Ruined adobe house bears bears S. 18 ° E.
           Shanty bears S. 34° E.
   10.50 Over level land.
   23.00 Cross Harshaw wash 75 lks. wide course N. W. 24.12 Cross road at junction bears N. W. and S. E. and S.S.E.
   24.50 Telephone line, bears N. W. and S. E.
   27.70 cross road bears N. E. and S. W.
   29.90 cross road bears N. W. and S. E.
           Ascend along N. E. slope through scattering mesquite.
   30.00
   Ridge bears N. W. and S. E. and descend along S. W. slope. 40.00 Set a tufa stone 20 x 12 x 8 ins. 15 ins. in the ground for \(\frac{1}{4}\) sec. cor., marked \(\frac{1}{4}\) 06 on W. face; from which
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Subdivision of Tp. 22 S. Rg. 16 E.
  chains.
                   An oak 6 ins. diam., bears S. 22 1/2° W. 90
                                 lks. dist., marked 06 1816BT.
             No other tree available. Raise a mound of stone 2 ft base in 12 ft. high. W. of cor. Pits impracticable. Cross wash 6 kks. wide course N. W. and ascend. A point from which shanty bears N. 48° E. Ruined adobe house bears N. 32° E.
   49.20
   58.75
             Top and along steep W. slope.
Set a tufa stone 18 x 10 x 8 ins. 12 ins. in the ground
for cor. of secs. 15, 16, 21 and 22, marked 06 on N. E.
   63.00
  80.00
             face, with 3 notches on S. and E. edges; from which An oak 8 ins. diam., bears N. 71 1/2° E. 84
                        lks. dist., marked 06T22SR16ES15BT.

An cak 8 ins. diam., bears N. 12° W. 118 lks.
dist., marked 06T22SR16ES16BT.
             No other trees available. Raise a mound of stone 2 ft.
             base, 1 1/2 ft. high, W. of cor. Pits impracticable.
             Land, level and mountainous.
             Soil, loamy and stony; 1st. and 3rd. rate.
            Timber, oak.
July 21; At this cor. I set off 20° 36' N. on the dec'l.
arc; and observe the sun on the meridian at noon, the
resulting lat is 31° 30 1/2' N.
            S. 0° 02' E. bet. secs. 21 and 22 Along W. slope of mountain.
            Cross saddle and along S. E. slope.
  6.50
 12.00
            Descend into cayon.
 18.50
            Cross wash 10 lks. wide course E. and ascend.
           Along steep E. slope of Red Mt. through scattering oaks. Cross wash 10 lks. wide course E.
 24.00
 38.40
           Point for cor. falls on a granite rock in place 10 x 10
 40.00
           x 4 ft. above ground. I mark a cross (x) for exact point for \frac{1}{4} sec. cor., with \frac{1}{4} 06 on W. of cross; from
           which
                      An oak 8 ins. diam., bears S. 52° E. 49 lks. dist., marked 06 S22BT.
                      A pinon 4 ins. diam., bears dist., marked Q6 1821BT.
                                                        bears S. 7° W. 49 1ks.
           Cross wash 10 kks. wide course E. Cross wash 10 lks. wide course N. E.
55.80
63.50
          Cross wash 10 lks. wide course E.
Set a granite stone 18 x 8 x 8 ins. 12 ins. in the ground for cor. of secs. 21, 22, 27 and 28, marked 06
69.00
80.00
          en N. E. face, with 2 notches on S. and 3 notches on E.
          edges; from which
                     An oak 4 ins. diam., bears N. 12 1/2° E. 67
                             lks. dist., marked 06T22SR16ES22BT.
                     An oak 8 ins. diam., bears S. 60 3/4° E. 127
                     1ks. dist., marked 06T22SR16ES27BT.
An oak 12 ins. diam., bears S. 77 1/2° W. 184
                             lks. dist., marked 06T22SR16ES28BT.
                     An oak 6 ins. diam., bears N. 15° W. 92
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lks. dist., marked 06T22SR16ES21BT. Land, Mountainous.

Soil, rocky; 4th. rate. Timber, oak.

Mountainous land 80.00 chs.

July 21, 1907

July 22: At 7h. 00m. a.m., l.m.t., I set off 31° 31 1/2' N. on the lat. arc; 20° 28' N. on the dec'l. arc; and determine a meridian with the solar at the cor. of secs. 10, 11, 14 and 15, Thence I run
S. 0° 01' E. bet. secs. 14 and 15. Through scattering oak timber ascending. Top mountain and descend.

.2.00

14.60 Cross fence bears E. and W.

14.80 Cross wash 10 lks. wide course.s. w.

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BOOK 2058
                            Subdivision of Tp. 22 S. Rg.
      Chains.
                 Cross wash 10 kks. wide course S. W.
                 Cross wash 100 kks. wide course S. W. and ascend.
       16.50
                Ridge bears N.Ew. and & W. and descend.

Set a granite stone 24 x 6 x 4 ins. 18 ins. in the ground for \(\frac{1}{4}\) sec. cor. marked \(\frac{1}{4}\).06 on W. face; from which an oak 8 ins. diam., bears S. 30° E. 41 lks.

dist., marked 06\(\frac{1}{4}\)Slabs.

A mesquite 8 ins. diam., bears S. 45° W. 123 lks.
       27.45
        35.00
        40.00
                 At this cor. I set off 20° 24 1/2' N. on the dec'l. arc; and observe the sun on the meridian at noon the resulting lat. is 31° 31' N. \(
\frac{1}{20}\) Cross wash 10 kks. wide course S. W. and ascend along
        41.70
                 N. W. slope.
                 cross ridge bears N. E. and S. W. and descend.
        58.00
                 Cross wash 8 lks. wide course S. W.
        69.00
                 Cross same wash course S. E.
        69.75
                 cross road bears E. and W.
        76.80
                 Cross wash 75 lks. wide course W.
                 Cross fence bears E. and W. and over level cultivated
        77.35
        77.70
                  Set a granite stone 20 x 6 x 6 ins. 15 ins. in the ground
                  for cor. of secs. 14, 15, 22 and 23, marked 06 on N. E.
        80.00
                  face; with 3 notches on S. and 2 notches on E. edges;
                  from which
                           A mesquite 18 ins. diam., bears N. 2\frac{10}{4} E. 296
                                  lks. dist., marked 06T22SR16ES14BT.
                           An oak 18 ins. diam., bears S. 51 1 E. 337
                                  lks. dist., marked O6T22SR16ES23BT.
                           An oak 14 ins. diam., bears S. 8° W. 412
                                  lks. dist., marked 06T22SR16ES22BT.
                            A mesquite 8 ins. diam., bears N. 73° W. 373
                                  lks. dist., marked 06T22SR16ES15BT.
                  Land, level and mountainous.
                  Soil, rocky and loamy; 4th. and 1st. rate.
                   Timber oak.
                                                                    July 22, 1907.
                                                    1.m.t., I set off 31° 30 1/2'
                   July 23; At 7h.00m. a.m., l.m.t., I set off 31° 30 1/2 N. on the lat. arc; 20° 16' N/ on the dec'l. arc; and
                   determine a meridian with the solar at the cor. of secs.
                   14, 15, 22 and 23,
                   Thence I run
                   West on a random line bet. secs. 15 and 22.
           40.00 Set temp. \(\frac{1}{4}\) sec. cer.
80.16 Intersect N. and S. line 7 lks. N. of the cor. of secs.
                   15, 16, 21 and 22
                   Thence I run
                   N. 89° 57' E. on a true line bet. secs. 15 and 22.
                    Ascend through scattering oak timber.
             5.00 Top mountain bears N. and S. and descend.
            14.00 cross Harshaw wash 50 lks. wide course N.
            14.70 cross telephone line bears N. and S.
            15.00 Cross read bears N. and S.
            15.50 Ascend
            36.00 Along N. slope of mountain.
40.08 Set a granite stone 18 x 6 x 6 ins. 12 ins. in the
                    ground for \frac{1}{4} sec. cor., marked \frac{1}{4} 06 on N. face; from
                              An oak 8 ins. diam., bears N. 40° W. 35 lks.
                                    dist., marked 06 1515BT.
                              An oak 8 ins. diam., bears S. 16° W. 44 lks. dist., marked 06 1522BT.
                    July 23; At this cor. I set off 20° 12 1/2' N. on the dec'l. arc; and observe the sun on the meridian at noon
             the resulting lat. is 31° 30 1/2' N. / 42.00 Cross wash 10 lks. wide course N.
             42.70 Cross wash 10 lks. wide course N.
             20.00 Descending along N. E. slope.
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69.10 Cross wash 50 lks. wide course N. and over level land.

70.65 Cross road bears N. W. and S. E. 74.15 Cross road bears S. W. and N. E.

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BOOK 2058
                  Subdivision of Tp. 22 S. Rg. 16 E
 Chains.
          Cross fence bears S. 70° W. and N. 70° E. Cross fence bears N. 10° W. and S. 10° E. The cor. of secs. 14, 15, 22 and 25.

Land, mountainous and level.
  76.00
  77.00
 80.10
 80.16
          soil, rocky, and loamy; 1st. and 4th. rate.
          Timber oak.
          Mountainous land, 69.10 chs.
                                                         July 23, 1907.
         July 24: At 7h. 00m. a.m., l.m.t., I set off 31° 30 1/2' N. on the lat. arc; 20° 04' N. on the dec'l. arc; and
         determine a meridian with the solar at the cor. of secs.
         14, 15, 22 and 23,
         Thence I run
         S. 0° 01' E. bet. secs. 22 and 23. From this cor. J. S. Gatlin's house bears S. 55° W 8.50
         Over cultivated land.
  0.16 Cross fence bears N. 10° W. and S. 10° E.
  2.48 Cross ditch 2 lks. wide course w. and ascend steep N.
        slope through scattering oaks.
 30.00 Top mountain ridge bears E. and W. and descend over
        rolling top of mountains.
 40.00 Set a malpais stone 18 x 10 x 10 ins. 12 ins. in the
        ground for \frac{1}{4} sec. cor., marked \frac{1}{4} 06 on W. face; from
                An oak 8 ins. diam., bears S. 73° W. 54 lks.
                       dist., marked 06 1822BT.
                 An oak 12 ins. diam., bears dist., marked 06 1823BT
                                             bears N. 19° E. 179 lks.
        July 24: At this cor. I set off 20°001/2' N. on the dec'l
       arc; and observe the sun on the meridian at noon, the resulting lat. is 31° 30' N.
47.75 Cross wash 6 lks. wide course S. E. 61.80 Cross wash 6 lks. wide course S. W. and ascend along
       N. E. slope of mountain.
       Set a granite stone 20 x 6 x 6 ins. 15 ins. in the ground
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for cor. of secs. 22, 23, 26 and 27, marked 06 on N. E. face, with 2 notches on S. and E. edges; from which An oak 6 ins. diam., bears N. 18° E. 112 lks. dist., marked 06T22SR16ES23BT.

An oak 10 ins. diam., bears S. 20° E. 330 lks. dist., marked 06T22SR16ES26BT.

An oak 8 ins. diam., bears S. 40° W. 240 lks. dist., marked 06T22SR16ES27BT.

An oak 10 ins. diam., bears N. 20° W. 195 lks.

dist., marked 06T22SR16ES22BT. Land, mountainous and level.

Soil, rocky and loamy; 4th. and 1st. rate. Timber, oak, Mountainous land, 78.52 chs.

July 24, 1907.

July 25; At 7h. Oom. a.m., l.m.t., I set off 31° 29 1/2'N. on the lat. arc; 1995141/25N. on the dec'l. arc; and determine a meridian with the solar at the cor. of secs. 22, 23, 26 and 27, Thence I run S. 89° 57' W. on a random line bet. secs. 22 and 27.

Set temp. 1 sec. cor.

80.08 Intersect N. and S. line 2 lks. N. of the cor. of secs. 21, 22, 27 and 28.

Thence I run
N. 89° 56' E. on a true line bet. secs. 22 and 27.

Descending along S. E. slope through scattering oak timber 2.20 cross wash 6 lks. wide course S.

8.00 cross wash 6 lks. wide caurse S.

40.00

21.00 cross wash 40 lks. wide course N. and ascend. 22.90 Cross road bears N. and S. and

BOOK 2058

Subdivision of Tp. 22 S. Rg. 16 E.

Chains. 25.45 33.20 40.04

> 52.00 74.50 80.08

cross telephone line bears N. and S. Cross wash 6 kks. wide course N.

Set a granite stone 18 x 6 x 4 ins. 12 ins. in the ground for \(\frac{1}{4} \) sec. cor., marked \(\frac{1}{4} \) 06 on N. face; from which An oak 24 ins. diam., bears S. 45° W. 75 lks.

An oak 24 ins. diam., bears N. 62° W. 102 lks.

An oak 24 ins. diam., bears N. 62° W. 102 lks.

dist., marked 06\(\frac{1}{4} \) 22BT.

July 25; At this cor. I set off 19° 50 1/2' N. on the dec'l. arc: and observe the sum on the meridian at noon. cross wash 6 kks. wide course N.

dec'l. arc; and observe the sun on the meridian at noon the resulting lat. is 31° 29 1/2' N. Cross wash 20 1ks. wide course N. W. Top ridge bears N. and S and descend. The cor. of secs. 22, 23, 26 and 27. Land, mountainous. Soil stony; 3rd. rate.

Timber, oak. Mountainous land, 80.08 chs.

July 25, 1907.

General Description.

This township is rough and mountainous and the soil rocky excepting in the Sonoita Valley which runs through secs. 5, 6, 7 and 8, where the land is level and the soil learny and with water produces good crops. The mountainland produces a good crop of nutritous grass and is valuable for grazing purposes. Copper has been discovered in the township and considerable mining is done in the unsurveyed portion which is mineral in character.

Sonoita Creek is dry through the township. There is was

water in sec. 3 and sec. 15.

John J. Hesse U.S. Deputy Surveyor

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

BOOK 2058

LIST OF NAMES.	BOOK 2058
A list of the names of the individuals employed by John F	. Hesse
United States Deputy Surveyor, to	
marking the lines and corners described in the foregoing field notes of	the survey of the makering, and
ion lines of Tp. 22 S. Rg. 16 E.	survey of cite suodivist
showing the respective capacities in which they acted:	
A. N. Oliver	07
T. E. Manning	Chainman.
	, Chainman.
	, Moundman.
Joaquin Quiro	, Moundman.
to a farm Autho	ga, Axman.
R. M. Smith	Axman.
FINAL OATH OF ASSISTANT	Flagman.
We hereby certify that we assisted 5chn r. Hesse	-S.
United States De	
Salt River meridian, Territory of Arizona	of the Gila and
as been in all respects, to the best of our knowledge and belief, well are orner monuments established, according to the instructions furnished beneral for Arizona.	direction; and that said survey and faithfully surveyed, and the by the United States Surveyor
101	, Chainman.
	, Moundman.
	, Moundman.
Jooquin Qu	Axman.
	Axman.
day of John John John John John John John John	Hesse Deputy Luveyor

No notary available without loss of time and great expense.

pos FINAL O	ATH OF UNITED ST	AIES DEPUTT S	
		Totied	States Deputy Surveyor, do
I, John F. He		d from Wrank S.	Ingarra
emnly swear that, in p	oursuance of a contract recei	ved from	ingalls, bearing date of the ofully, and truly, in my own
			afully, and truly, in my own
10th. day of N	lovember,	structions furnished by	the United States Surveyor ructions, and the laws of the
oneral for Arizona	the M	f the subdivision	n lines of Tp.
2 S. Rg. 16 E.			
· · · · · · · · · · · · · · · · · · ·		of	the Gila and
at ni-an	rerritory	of Arizona	which are represented in the
regoing field notes as year that all the corne	having been surveyed by m rs of said survey have been	e, and under my unconce established and perpetue	ated in strict accordance with f the United States Surveyor
eneral for Arizona	and in the	specific mainter deserve	ed in the field notes, and tha
ne foregoing are the or	riginal field notes of such su	ıv⊖y•	*
	•		
		John F.	Hesse
			Inited States Deputy Surveyor
Subscribed by said		, and sworn to before n	ne }
this	day of August	- Ja out	1 Dhyalle
00000 00000 00000	×000	W.J.A	urveyer General V Ariz ons.
		/ fe	Nating ona.
	· .	ROVAL.	
	OFFICE OF THE UNITED	STATES SURVEYOR GE	ENERAL,
	OFFICE OF THE	Thoening af,	Dec. 16th, 190 nal lines of To Base and riz ona
The foregoing	field notes of the survey of	the Subdivision	Base and
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meridian	1	f f	0
		-	
7	7 11.	A dohe to Su	nveye, 1906, having bade, the said field notes, and
executed by	m V. Vressa W.	rovember 10	U, 1906, having l
under his contract N	o. // , dated	t and explanations ma	ade, the said field notes, and
critically examined,	and the necessary correction	/ /	
surveys they describ	oe, are hereby approved.	Many	United States Surveyor Gen
		he field notes of the ahor	ve-described surveys in
I certify that	the foregoing transcript of t	ectly copied from the original	ve-described surveys inginal notes on file in this office
		Summer	United States Surveyor Ger