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Of the GILA & S	-		Meridiar	v ,	
	Arizona.			•	
	AS SURVEYE	DBY	•		
Philip Contzen,		, Unite	d States Dep	outy Surveyor	
-Under his Contract No. 138	, dated	April 12,	1906.	, 190	• •
Surpey commencedJuly					
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to IP BOOK 2048 NAMES AND DUTIES OF ASSISTANTS. Chainman arthur Poque, nd, Moundman, Hann nallory is the Ulman, · M -----NIA iken Hagman 6—151

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INDEX DIAGRAM.

Tou	unship 23	South	, Range	20 Eas	1
6	5	4	8	2	1
7	8	9	10	11	12
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7	Meand	lers Page	5	¥	

800K 2046 PRELIMINARY OATHS OF ASSISTANTS. Parry Mallory arthur M ____and___ do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain upon even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distances to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey of conting M. and E boundaries and South and West boundarie J. 23 A. R. 208 Coque, Chainman. gan alloy, Chainman. Subscribed and sworn to before me this ____, 1906 day of W. Louis Renand and do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given is, to the best of our skill and ability, in the survey of sortion of M. and S. boundaries and South and West boundaries of 5. 23 S. R. 20 Finis Remaind Moundman. ., Moundman. Subscribed and sworn to before me this day of, 190 6 Noters 01.1.21th **1908** My Connics WE. S. C. Millar and do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corners / and other duties, according to instructions given is to the best of our skill and ability, in the survey of portion of 11. and 6. boundaries and south and West boundaries of 5.23 S. R. 20 5 L. G Millar, Axmon. Axman.Subscribed and sworn to before me this.... , 190 **6** day of Pouce Notury My Commissie P. B. Milliken, do solemnly swear that I will well and truly I, perform the duties of flagman according to instructions given me, to the best of my skill and ability portion of M. and G. boundaries and south and survey of boundaries of J23 S. B. 20 ., Flagman Subscribed and sworn to before me this. day of Notaru My <u>Counters</u>s

Exterior Boundaries of T. 23 S., R. 20 E.

Q1 \$4

BOOK 2046

Survey commenced July 8, 1906, and executed with a Young & Sons light mountain transit, with Smith's Solar Attachment No. 5609. The horizontal limb is provided with two double 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 emamined, tested on the true meridian at Phoenix, found correct, and approved by the Surveyor general of Arizona, July 1, 1906. I examine the adjustments of the transit and correct

I examine the adjustments of the transit and correct the level and collimation errors, 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:

In my camp in the SE¹, Sec. 34, T. 22 S., R. 20 E., Gila and Salt Raver Base and Meridian in Latitude 31-28' N., approximately longitude 110° 17'W., I test my instrument on the true meridian established by me in the night of July 5-6, all the points of which I find intact, for which see Book B. of this contract, I set off 51-28' N. on the lat. arc; 22° 32' N. on the dedl. arc; and at 4 h 50 m., p.m., 1.m.t., determine with the solar a meridian which falls 0.3 ins. east of the mark established by Polaris observation.

July 8, 1906.

July 9: At 6 h 30 m., a.m., l.m.t., I set off 31° 28' H on the lat. arc; 22° 28'/N. on the decl. arc, and determine with the solar a meridian which falls 0.3 ins. east of the mark established by Polaris observation. These p.m. and a.m. meridians so nearly coincide with those established on July 5-6, that I consider my instrument in adjustment.

BOOK 2046 192

North Boundary of Tp. 23 S., R. 20 E.

- 2 -

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	chains		
	Guarne		<u>.</u>
		From $\frac{1}{2}$ sec. cor, bet. secs. 3 and 34, on the North bdy, α	
	~	of the tp., which is a cross (x) on a granite rock in pla	.0e
		31X 2 X 3 ft., above ground, marked and witnessed as	
		described by the Surveyor General	
	6	I run West bet. sees. 3 and 34.	
		Over mountainous land ascending through scattering oak	
		timber.	
	.80	Gulch, 10 1ks. wide, course N.E.	
	8.35		
	35.50		
	35.70		
	40.00	Pipe line, brs. N.E. and S.W.	
		Top of S. slope of rocky ridge.	. (. · ·
		Set a limestone, 18 X 8 X 6 ins., 12 ins. in the ground,	
		for cor. of sees. 3, 4, 33 and 34, marked with 3 notches on the E. and W. edges, from which	
		An opt 6 ing diam has N tols B 120 av	
	. *	An oak, 6 ins. diam., brs. N. 491. E., 116 1ks.	
		dist., marked T 22 S R 20 E S 34 B T,	
-		An oak, 6 ins. diam., brs. S. 77 E., 133 lks. dist., marked T 23 S R 20 E S 3 B T,	
		An oak 8 ing diam had 0 100 W 300 34	
		An oak, 8 ins. diam., brs. S. 16 W., 123 lks. dist., marked T 23 S R 20 E S 4 B T,	
		An oak 6 ing diam has a gile w and an	
		An oak, 6 ins. diam., brs. N. 611. W., 170 1ks., dist., marked T 22 S R 20 E S 33 B T.	
		Raise a mound of stone, 2 ft. base, 11 ft. high, W. of	
	•	cor. Pits impracticable.	•
	•	Land, mountainous.	
		Soil, gravelly, stony and rocky; 3rd and 4th rate.	
		Timber, oak, undergrowth, oak and manzanito.	
		Mountainous land, heavily timbered or covered with	
	-	dense undergrowth, exceptionally difficult to survey,	•
	· · · ·	40.00 chs.	
		July 9; At 12 h 5 m., p.m., l.m.t., I set off 22 25' N.	× .
		on the decl. aro; and observe the sun on the meridian;	
		the resulting lat. is 31. 27' 43" N.	•
		West bet. secs. 4 and 33.	
		Over mountainous land, through scattering oak timber and	
		dense brush.	•
	7.30	Cut, 4 X 20 ft., brs. N. 50 lks. dist.	
	7.70	Guion, 20 iks. wide. course S ascend	
	23.00	Kidge, 450 feet above see, cor bre W F and a w	•
	23,26	TANKADDE VOUD S. DOY, OF THE HUSCHING WITH A DOWN DOWN	
		aviolation a point from which Cor. No: 13 bra 9 670	
		Set a quartzite stone, 18 X 10 X 10 ins., 12 ins. in the	
		THE WAY VALUE GUILL U X POIDVAS DO N TOODA ONA MALANA	
	·	The second a second of the second sec	
		TWAT COATOGOTO	
		Land, mountainous.	
•	•	Soil, stony and rocky; 4th rate.	
		"Imper. Oak: undergrowth oak mercel and eachd	
		THE WAR WHO LOUGH UNVERTED WITH A STOR UNA ON COMMONAN	
		condity difficult to survey, 23.26 chs.	
,		July 9, 1906.	
		July 10: At 7 a.m. 1.m.t., I set off 22° 20' N., on the	
	1		
			V
	1	sandstone, 8 X 6 X 5 ins., above ground, marked as	-
			ran Sa (Sa) Mang dan se

East Bdy. of T. 23 S., R. 20 E.

chains described by the Surveyor General; thence I run South bet. secs. 25 and 30. Over rolling land, ascending gradually through scatter-ing oak.timber and dense brush. Gulch, 20 lksl wide, course E.; ascend steeper slope. 3.30 4.40 Spring brs. 4.00 chs. East. 13.00 Enter gulch, course N.N.W. Leave gulch, course N. Same gulch, course N.N.E. Spur, 600 ft. above 1 sec. cor., extends E., leave oak timber, thence along E. slope of ridge. 20.30 28.20 32,20 39,60 Small gulch, course E. Fails on a blanket ledge of limestone, marked with X 40.00 for point of cor. of secs. 25, 30, 31 and 36, with 1 notch on S., and 5 notches on N., from which An oak, 6 ins. diam., brs. N. 38° E., 133 1ks. dist., marked T. 23 S. R 21 E S. 30 B T, An oak, 6 ins. diam., brs. N. 34 W., 85 lks. dist., marked T 23 S R 20 E S 25 B T. No other trees within limits. Raise a mound of stone, 2 ft. base, 11 ft. high, W. of cor. Pits impracticable. Land mountainous, Soil, gravelly, stony and rocky; 3rd and 4th rate. Timber, scattering oak and madrono; undergrowth, laurel, manzanite and megcal. Mountainous land, covered with dense undergrowth, excep ionally difficult to survey, 40.00 chs. July 10: At 12 h 5 m., p.m., 1.m.t., I set off 280 18' 1 on the deal. are and observe the sun on the meridian; the resulting lat. is 31. 24 1/ N. S. bet. sees. 31 and 36. Along N. slope of r idge , through scattering pinon and laurel and dense brush. Gulch, 20 1ks. wide, course E.; ascend. Rocky spur, extends E., leave dense brush; descend 3.40 10.40 steep slope. Gulch, 20 lks. wide, course S.E.; enter oak timber. Horsethief Canyon, 60 lks. wide, course E., 800 ft. below sec. cor.; ascend steep slope through dense oak brush. 24.30 32.60 Set a limestone, 18 X 8 X 6 ins., 12 ins. in the ground, for $\frac{1}{4}$ sec. cor. bet, sees. 31 and 36, markedwith $\frac{1}{4}$ on 40.00 W. face, from which An oak, 12 ims. diam., brs. N. 68° 45' E., 92 lks. dist., marked T 23 S R 21 E S 31 B T, An oak, 7 ins. diam., brs. N. 721° W., 25 lks. dist., marked T 23 S R 20 E S 35 B T, Ridge 800 ft. above canyon, extends E.N.E., descend 56.50 steep slope. Gulch, 500 1ks. below ridge, 20 1ks. wide, course S.E. Set a limestone, 18 X 10 X 5 ins., 12 ins. in the ground, for cor. of tps. 23 and 24 S., Rs. 20 and 21 E., marked with 6 notches on each edge, from which 79.60 80.00 An oak, 8 ins. diam., brs. N. 72. E., 178 lks. dist, marked T 23 S R 20 E S 31 B T, marked T 23 S R 20 E S 31 B T. An oak, 8 ins. diam. brs. S.386 45 E.] 142 Eksdist., marked T 24 S R 21 E S 6 B T. An oak, 9 ins. diam., brs.S. 86 W., 139 lks. dist., marked T 24 S R 20 E S 1 B T. An oak, 7 ins. diam. brs. W. 201 W. 162 lks. dist., marked T 25 S R 20 E S 36 B T. Raise a mound of stone, 2 ft. base, 11 ft. high, S. of oor. Pits impracticable. Land, mountainous. Soil. gravelly, stony and mostry and and data Soil, gravelly, stony and rooky; 3rd and 4th rate.

•	1. •		27.
		East Bdy. of T. 23 S., R. 20 E. BOOK 2046	s 2
	chains	Timber, oak, and scattering pinon, madrono and juniper. Undergrowth, oak, laurel, mezcal and cacti. Mountainous land, covered with dense undergrowth, exceptionally difficult to survey, 80.00 chs. From this cor. Ash Canyon lies 10.00 chs. S. There is a road in this canyon; a high ridge, bearing E. and W. about 3-4 mile S.	
	39,00	Enter dense brush, brs. N.E. and S.W. Top, brs. N. and S., Thence along S. slope of ridge, overlimestone ledges. Gulch, 20 1kS; Wide, course S.E. Tunnel, 25 chs. S.	
	52,00 57,80 65,50 68,00 77,00	Old cabin brs. S. 10 chs. dist. Gulch, 20 lks. wide. course S.	
	3	July 10, 1906. July11: At 7 a.m., l.m.t., I set off 22° 13' N. on the decl. arc. and 31' 23 N on the lat. arc, and determine a true meridian with the solar at the cor. of secs. 2, 3, 34 and 35. Thence I run	
	8.00 11.00 14.00 16.70 18.50 22.00 25.90	West bet, sees. 2 and 35. Over mountainous land, along S. slope of spur, through heavy timber and dense brush. Gulch, 30 1ks. wide, course S. Descend; brs. N. and S. Gulch, 20 1ks. wide, course S., ascend. Spur, extends S., descend. Gulch, 20 1ks. wide, course S. ascend. Spur, extends S., descend. Spur, extends S., descend. Enter N. fork of Ash Canyon, course S.E. Road, brs. N.W. and S.E. Leave canyon and heavy timber. Ascend.	
	40.00	Falls of granite rock in place, 4 X 3 X 4 ft. above	

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W BOOK 2046

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	ohains	
	OUGTUD	groundm marked with cross and 1 for emact cor. point,
	U U U	
		from which
	$(0,1) \in \{1,\dots,n\}$	An oak, 8 ins. diam., brs. N. 771. E., 54 lks. dist.,
		marked 2 8 35 B T,
		An oak, 18 ins. diam., brs. S. 5° W., 39 lks. dist.,
		marked 1 S 2 B T.
	40.00	-Gulch, 20-1ks. wide, course N.E., reenter heavy timber.
	42.00	
н. 1911 - С.	53.00	Leave heavy timber, brs. N.E. and S.W.
	62.83	Post in mound of stone, brs. 8 1ks. N., marked No. 4
• -		M L on N., 11 H I on S.
	80.00	Top of Huachuca Mountains, 2300 ft. above canyon, brs.
		N. and S.
		Cor. point falls on limestone ledge, brs. N. and S.,
		marked with cross for exact cor. of sees. 2 3 34 and
		marked with cross for exact cor. of secs. 2, 3, 34 and 35, 2 notches on the E., and 4 notches on the W. edge,
		from which
		LIUM WILLUM
		A fir, 18 ins. diam., brs. N. 16° E., 200 lks. dist., marked T 23 S R 20 E S 35 B T,
		marked T 23 S H 20 E S 35 B T,
		A pine, 18 ins. diam., brs. S.10° E., 224 lks. dist.,
	J.	marked T 24 S R 20 E S 2 B T,
		A pine, 20 ins. diam., brs. S. 67° W., 170 lks. dist.,
	1 1 N.A.	marked T 24 S R 20 E S 3 B T,
	te de la Contra	A pine, 18 ins.diam., brs. N. 310 W., 172 lks. dist.,
		marked T 23. S R 20 E S 34 B T.
	e statistice	Raise amound of stone 2. ft. base, 11 ft. high, S. of
		cor. Pits impracticable.
	an kan	Land, mountainous.
		Soil, gravelly, stony and rocky; 3rd and 4th rate.
		Timber, oak, pine, fir, juniper, madrono, sprace and pinon.
	+ (Undergrowth, oak, laurel, manganito, locust, megcal and pacti.
		Mountainous land, heavily timbered or covered with dense
		undergrowth, exceptionally difficult to survey, 80.00 chs.
		July 11:At 12 h 5 m., p.m., 1.m.t., I set off 220 10 1/ N.
		on the decl, aro, and observe the sun on the meridian;
		the resulting lat, is 31º 23' N.
		West bet, sees, 3 and 34
	a e la	Aron manual Jand dhar Alana dha a h
	9.40	Over mountainous land, descending through dense oak brush.
· .	9.40	Gulch, 20 1ks. wide, course S.W., thence along S. slope
ŀ		of, spur.
	16.00	Mining camp (tents) br. 10 chs. S.
	. 18.00	Tunnel, 14, chs. S.
	23.10	Gulch, 20 iks. wide, course S.
•	26.00	Descend through scattering timber
	32,20	Gulch, 20 1ks. wide, course S., ascend. Set a silicate stone, 20 I S X 6 ins., 12 ins. in the ground for 1 sec. compared 1 on 1 1 2 ins.
¢ ,	40,00	Set a silicate stone TAT SY 6 ins 12 ins in the
		ground, for 1 sec. cor., marked 1 on N. face, from which
	V.	Annasis all ime diam have y one at a
	•	Anpone, 24 ins. diam., brs. N. 28º 45' W., 163 1ks.
		dist., marked 1 S 34 B T,
		Arpans, 35 ins, diam., brs. S. 441° E., 180 lks. dist.,
	· Constant of the	
	•	Top of Spar, extends S. This cor. stands 800 ft. below
		sec. cor. Thence along S. slope of spur.
	47.00	Descend,
	52.00	Head of guloh, course S., ascend steep grade.
	58.20	Cut, 4 X 20 ft., brs. N. 15 1ks. E.
	59.20	Top of rocky ridge, extends N E. Begin steep descent along -
		N. slope.
	72.00	Descend steeper, over granite ledges.
	80.00	Set a mienteste atoma. Di V.o. Y. O. da
		Set a quartaite stone, 21 X 8 X 6 ins., in mound of
		stone, gm und too rocky to set stone in, for cor. of secs.
	and the second sec	0. Second and 04. Marked with 3 Rougads on the read w
	s i de la compañía de	orread I TOM WUTCU
	•	An oak, 18 ins. diam., brs. S. 62° E., 150 lks. dist.
		merred T 24 S R 20 K S 3 R T
		A pine, 18 ins, diama, brs. N. 530 W. 74 ike digt
		within limits. Riase a mound of stone, 2 ft. base, 1 ft. high, W. of cor. Pits impracticable'
	a di sa	1 ft. high, W. of cor. Pits impractional
		This cor. stands 800 ft. below top of ridge.
	1 States and the	
	1	

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chains Land, mountainous. Soil, gravelly, stony and rocky; 3rd and 4th rate. Timber, pine, juniper, spruce, oak, pinon and madrono. Undergrowth, oak, buck brush, locust, mezcal, lechequilla, and cacti. Mountainous land, covered with dense undergrowth, exceptionally difficult to survey, 80.00 chs. July 11, 1906. July 12: At 7 a.m., L.m., t., I set off 22° 5" N. on the decl. arc; and 31° 23'Non the lat. arc, and determine a true meridian with the solar at the cor. of secs. 3, 4, 33 and 34. Thence I run West bet. sees. 4 and 35. Over mountainous land, along N. slope of ridge; descend ing through scattering pine timber and dense oak brush. 10.20 Gulch, 30 lks. wide, course N., ascend through heavy timber. Spur, extends N., leave heavy timber; descend. Gulch, 30 1ks. wide, course N., reenter heavy timber; 21.60 39.65 ascend. Set a limestone, 18 X 7 X 7 ins., 12 ins. in the ground, for 1 sec. cor., marked 1 on W. face, from which An oak, 7 ins. diam., brs. N. 29° 45! E., 44 lks. dist., marked 1 S 33 B T, An oak, 8 ins. diam., brs. S. 63° E., 37 lks. dist., 40.00 marked + S 4 B T. This cor. stands 500 ft. below top of spur. 45.00 Spur, extends N., descend. Guloh, 20 1ks. wide, course N., ascend. 54.90 64.00 Cut, 12 ohs. N. Three outs, br. 12 chs. N. Spur, extends N., descend. Set a quartzite, 18 X 10 X 8 ins., 12 ins. in the ground for the cor. of secs. 4, 5, 32 and 33 ., marked with 4 notohes on the E and 2 notohes on the W. Edges, from 67.00 70,00 80.00 . . which An oak, 12 ins. diam., brs. N. 351° E., 97 1ks. dist., marked T 23 S R 20 E S 33 B T, Marked T 23 S R 20 R 5 55 D 1, An oak, 8 ins. diam., brs. S. 261 E., 30 lks. dist., marked T 24 S R 20 E S 4 B T, An oak, 8 ins. diam., brs. S. 381 W., 64 lks. dist., markedT 24 S R 20 E S 5 B T, An oak, 24 ins. diam., brs. N. 40° W., 32 lks. dist., An oak, 24 ins. diam., brs. N. a marked T 23 S R 20 E S 32 B T. Land, mountainous. Soil, gravelly, stony and rocky; 3rd and 4th rate. Timber, pine, oak, fir, pinon, balsam, maple and ash. Undergrowth, oak, buck brush and locust. Mountainous land, heavily tombered and covered with dense undergrowth, exceptionally difficult to survey. 80.00 chs. July 12, At 12 h. 5 m., p.m., l.m.t., I set off 22° 2' H. on the decl. arc, and observe the sun on the meridian; the resulting lat. is 31° 23' N. West bet. sec. 5 and 32. Over mountainous land, descending through oak timber and dense brush. Enter Cave Creek Canyon, course S.W. Road, brs. N.N.E. and S.S.W. 18.00 24.50 Cave Creek, 30 1ks. wide, course S.W. Road, brs. N.N.E. and S.S.W. 26.20 28,40 Leave canyon, and dense brush, ascend through heavy 29.00× oak timber. House brs. S. 5.00 chs. dist. 30.00 -Set a quartzite stone, 18 X 8 X 6 ins., 12 ins. in the ground, for the 1 sec. cor., marked 1 on W, face, from 40.00 from which An oak, 13 ins. diam., brs. 8. 451. W., 62 lks.

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South Bdy. of T. 23 S. R 20 E.

Ver Wester Wester

South Boundary of T 23 S R. 20 E.

ohains marked 1 S 5 B T, In oak, 6 ins. diam., brs. N. 34° W., 27 1ks. dist., marked 1 S 32 B T. √ An oak, Top of S. slope of mountain; descend. Top of S. slope of mountain; descend. Set a granite stone, 18 X 16 X 12 ins., 16 moundiof the groned, ground too fockystofset, stonendn32 for cor. of secs. 5, 6, 31 and 32, marked with 5 notches on the E., and 1 groups on the W. face, from which An oak, 10 ins. diam., brs. N. 481° E., 89 lks. dist., marked T 23 S R 20 E S 32 B T, An oak, 12 ins. diam., brs. S. 10° E., 54 lks. dist., marked T 24 S R 20 E S 5 B T. An oak, 14 ins. diam. brs. S. 561° W. 36 lks. dist. 51.00 80.00 r An oak, 14 ins. diam., brs. S. 561. W., 36 lks. dist., marked T 25 S R 20 E S 6 B T, An oak, 12 ins. diam., brs. N. 471° W., 45 lks. dist., marked T 23 S R 20 E S 31 B T. Land, mountainous. Soil, gravelly, stony and rocky; 3rd and 4th rate. Timber oak, madrono and sycamore, and ash incanyon. Undergrowth, oak, buck brush and mescal. Mountainous land, heavily timbered or covered with dense undergrowth, exceptebaally difficult to survey, 80.00 . A. . chs. July 12, 1906. July 13, 1906. At 7 a.m., l.m.t., I set off 21° $56^{1^{\prime}}$ N. on the decl. arc; and 31°. 23' N. Von the lat. arc; and determine a true meridian with the solar at the cor. of secs. 5, 6, 31 and 32. Thence I run West bet, sees. 31 and 6. Over mountainous land, descending through heavy oak timber, Gulch, 30 lks. wide, course S., foot of steep descent, thence over rolling land. 11.00 Gulch, 25 lks. wide, course S.S.W. Gulch, 25 lks. wide, course S.W. Gulch, 30 lks. wide, course S.S.E. Set a granite stone, 18 X 14 X 12 ins., in mound of 24.50 30,60 31.70 40.00 stone, ground tto rocky to set stone in, for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on $\frac{1}{5}$, face, findm which An oak, 18 ins. diam., brs. N. 21° E., 33 lks. dist., marked $\frac{1}{5}$ S 31 B T, An oak, 9 ins. diam., brs. S. 11° 45' W., 38 lks. dist., marked $\frac{1}{5}$ S 6 B T. Gulch. 60 lks. wide course S.W. dist., marked 1. S 6 B T. Gulch, 60 lks. wide, course S.W. Set a porphyrite stone, 18 X 10 X 10 ins., in mound of stone, ground too rocky to set stone in, for cor. of townships 23 mutric from which An oak, 12 ins. diam., brs. N. 44¹. E., 93 lks. dist., marked T 23 S R 20 F S 31 B T, An oak, 12 ins. diam., brs. S. 311° E., 125 lks. dist., marked T 24 S R 20 F S 6 B T, An oak, 14 ins. diam., brs. S. 75° W., 86 lks. dist., marked T 25 S R 19 F S 1 B T, An oak, 14 ins. diam., brs. N. 211° W., 30, lks. dist., marked T 28 S R 19 F. S 36 B T, Land, mountainous and rolling. 54.00 79.55 1 Land, mountainous and rolling. Soil, gravelly and stony; 3rd and 4th rate. Timber, oak, juniper and ash; undergrowth, oak, b Mountainous land, heavily timbered, exceptionally oak, buck brush. difficult to survey, 79.55 chs. July 13: At 12 h 5 m., p.m., l.m.t., I set off 21° 55' N. on the dedl. aro; and observe the sun st the meridian; m the resulting lat. is 31° 23 VN.

West Bdy. of T. 23 S., R. 20 E.

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BOOK 2046

200

chains N. bet. secs. 31 and 36 on the West bdy. of tp. Over rolling land, through heavy oak timber. 14.80 Gulch, 30 lks. wide, course W. 33.00 Enter Bear Canyon, course S.W. 35.20 Trail, brs. S.W. and N.E. **36,30 38,**00 Bear Creek, 30 1ks. wide, course S.W. Leave canyon; ascend. Set a porphyrite stone, 18 X 8 X 6 ins., in mound of stone, ground too rocký to set stone in, marked 4 on W. face, 40.00 nt, from which A juniper, 6 ins. diam., b dist., marked 1 S 31 B T. brs. S. 77º 45' E., 18 1ks., 12 ins. diam., brs. N. 401. W., 30 lks. dist., An oak, marked 1 S 36 B T. Ridge brs. N.W. and S.E.; descend along E. slope. 50.0Ô. 53.70 Trail brs. N.W. and S.E. 61.00 Foot , brs. N.W. and S.E.; thence over gently rolling land. through dense brush. 63.00 House brs, about 20.00 chs. E. Gulch, 15 lks. wide, course S.E. 69.60 73.00 Ascend, brs. N.W. and S.E. Set a granite stone, 18 X 12 X 9 ins., in mound of stone, ground too rocky to set stone in, for cor. of secs. 25, 30, 31 and 36, marked with 1 groove on S., and 5 grooves 80.00 V on N. faces, from which An oak, 9 ins. diam., brs. N. 701° E., 20'lks. dist., marked T 23 S R 20 E S 30 B T, An oak, 7 ins. diam., brs. S. 301° E., 35 lks. dist., marked T 23 S E 20 E S 31 B T. An oak, 8 ins. diam., brs. S. 251° W., 58 lks. dist., marked T 23 S R 19 E S 36 B T, An oak, 12 ins. diam., brs. N. 101° W., 13 lks. dist., marked T 23 S R 19 E S 25 B T. Land, rolling and mountainous. Soil, gravelly and stony; 3rd and 4th rate. Timber, oak, juniper, ash, and sycamore. Undergrowth, oak and buck brush. Mountainous land, heavily timbered, or covered with dense underbrush, exceptionally difficult to survey, 80.00 chs. July 13, 1906. July 14:At 7 a.m., 1.m.t., I set off 21° 48 \sqrt{N} . on the decl. arc; and 31° $24^{\circ}\sqrt{N}$. on the lat. arc; and determine a true meridian with the solar at the cor. of secs. 25, 30, 31 and 36. Thence I min N. bet. secs. 25 and 30. Over mountainous land, ascending through heavy oak timber. Top, brs. N.W. and S.E., ascend along E. slope of ridge. Shaft, about 10.00 chs. E. Top of small spur extends S.E.; descend. 5.00 14.00 19.00 Foot; brs. N.W. and S.E., thence over gently rolling land. 24.25 Trail brs. N.W. and S.E. 24.35 27.50 Tent brs. 1.00 ch. W. 31.00 Trail brs. N.W. and S.E. 31.65 Grave on line. Gulch, 30 lks. wide, course S.W.; enter dense brush. Deep gulch, 30 lks. wide, course S.W. Set a granite stone, 18 X 8 X 6 ins., in mound of st 33.30 37.35 40.00 ground too rocky to, set stone in, marked toon W. An aok, 12 ins. diam., brs. N. 49° E., 10 lks. dist., marked 1 S 30 B T, An oak, 14 ins. diam., br dist., marked 1 S 25 B T. brs. S. 841° W., 14 1ks. Trail brs. S.W. and N.E. Gulch, 20 1ks. wide, course S.W.; ascend. Gulch, 30 1ks. wide, course S.E., leave dense brush; ascent 43.15 46.55 58.30 steeper. Top of E. slope of ridge, 74.60nend.

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West Boundary of T. 23 S. R. 20 E.

- 9_-

ohains Set a granite stone, 18 X 10 X 8 ins., 12 ins. in the ground, for cor. of secs. 19, 24, 25, 30, marked with 2 notches: on S., and 4 notches: on N face; from which A juniper, 36° ins. diam., bBs. N. 62° E., 43 lks. dist., marked T 23 S R 20 E S 19 B T. 80.00 A juniper, 6 ins. diam., brs. S. 35° E., 97 lks. dist., marked T 23 S R 20 E S 30 B T, An oak, 13 ins. diam., brs. S. 31° W., 59 lks. dist., marked T 23 S R 19 E S 25 B T, An oak, 6 ins. diam., brs. N. 6° W., 15 lks. dist. marked T 23 S R 19 E S 24 B T. Lande mountainous and gently rolling. Soil, gravelly stony and rocky; 3rd and 4th rate. Timber, oak, juniper, ash, sycamore and cottonwood. Undergrowth, oak, buck brush and mezcal. Mountainous land, heavily timbered or covered with dense undergrowth, exceptionally difficult to survey, 80.00 chs. July 14: At 12 h. 6 m., p.m., 1.m.t., I set off 210 45 N. on the decl. arc; and observe the sun on the meridian; the resulting lat. is \$1º 24! N. North bet. secs. 19 and 24. Over mountainous land, descending along E. slope of ridge, through heavy timber and dense oak brush. Enter guloh, course SaE. 10.30 Leave gulch; course S., ascend; leave heavy timber. Same gulch, 50 lks. wide, course S.W. 12.20 25.00 Gulch, 40 1k. wide, course S.W. Same gulch, 40 1ks. wide, course S.E. Rattlesnake Peak brs. about 40 chs. N. Set a limestone, 18 X 10 X 8 ins., in mound of stone, ground too rocky to set stone in, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{2}$ on W. face, backstop beck, and for $\frac{1}{4}$ sec. cor., 28.00 30,20 35.00 40.00 from which An oak, 8 ins. diam., brs. N. 55° 45' W., 72 lks. dist., marked 1 S 24 B T, A madrono, 6 ins. diam., brs. S. 70° 45' E., 38 lks. dist., marked ½ S 19 B T. Gulch, 20 lks. wide, course S.W. A gulch, 30 lks. wide, course S.W. 48.00 49.60 Rocky ridge brs. E. and W., top of Huachuca Mountains, 700 ft. above + sec. cor., leave dense brush; descend 68.00 700 ft. above + sec. cor., leav steep through heavy oak timber. Trail, brs. E. and W. Trail brs. E. and W. Gulch, 30 lks. wide, course W., ascend through dense brush, leave timber. 70.40 75.00 75.00 80.00 Falls on limestone ledge, 6 X 2 X 1 ft. above ground, marked with cross for exact cor. point of secs. 13 18, 19 and 24, with 3 notches on N, and S. of X, 13, from which A pinon, 10 ins, diam., brs. N. 20°1K., 55 lks. dist., marked T 23 S R 20 E S 18 B T, An oak, 6 ins. diam., brs. S. 210 E., 34 lks. dist., marked T 23 S R 20 E S 19 B T, An oak, 6 ins. diam., brs. S. 151° W., 47 lks. dist., marked T 23 S R 19 E S 24 B T, An oak, 6 ins. diam., brs. N. 58° W., 63 lks. dist., marked T 23 S R 19 E., S 13 B T Land, mountainous. Soil, stony and rocky; 4th rate. Timber, oak, pine, fir, balsam, madrono and cedar. Undergrowth, oak, buck brush, chaparral, mezcal and leohequilla. Mountaonous land, heavily timbered or covered with dense undergrowth, exceptionally difficult to survey, 2 80.00 chs. 8.

West Boundary of T, 23 S, R, 20 E.

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BOOK 2046

27

•	chains.		
		Over mountainous land, ascending through scattering	
		oak timber and dense brush.	• •
	4.60		
		Spur extends W., descend.	
• ·	8.50	Gulch, 20 1ks. wide; course, W.; ascend.	
	13.30	Top, brs. E. and W., thence along W. slope of ridge.	
	24.60	Enter heavy timber, leave dense brush; begin steep descent.	• ·
	28.50	Trail brs. E, and W.	-
	40.00	Set a limestone, 21 X 8 X 8 ins., 16 ins. in the ground	
		for the posec. cor., marked 1 on W. face, from which	
		An ash, 18 ins. diam., brs. N. 56°E., 23 1ks. dist.,	
· . ·	/	marked 1 S 18 B T,	
		An oak, 14 ins. diam., brs. S. 15° W., 26 lks.	
	49 70	dist., marked 1 S 13 B T,	
	48.70	Enter canyon, 1000 ft, below helew, toprof spur, course W.	•
	48.30	Leave canyon; ascend.	
	58.40	Ridge, brs. N.W. and S.E., 300 ft, above canyon.	
		descend.	
	62.30	Intersect the Ft. Huachuca Miliiary Reservation at a	•
		point from which Cor. No. 36 brs. N. 870 401 E.	
. ,		51-61 chs. dist.	
		dat a limestone 18 × 10 × 10 fng in mound of stone	
		Set a limestone, 18 X 10 X 10 ins., in mound of stone,	
		ground too rocky to set stone in, for closing cor.	· ·
	t se se se st	or Secs. 13 and 18. Tps23 S Rs219Eand 20 E. marked	
200	1 · · · · · · · · · · · · · · · · · · ·	C C on S.	•
	1	S 18 on É,	
	$[\ldots,]$	S 13 on W.V.	t.
	1	FHMR on N., with 6 grooves on E. and W. faces,	
· · ·	r i ji	from which /	
1.1	1		
		A pine, 36 ins. diam., brs. S. 40° E., 68 lks.	$= e_{1}^{-2\pi i t} \left[\frac{1}{2} - e_{1}^{-2} \right]$
	1 1	dist., marked T 23 S R 20 E S 18 B T,	
· ·			
• •) • ? ?		An oak, 9 ins. diam., br. S. 1910 W., 50 lks.	
•		An oak, 9 ins. diam., br . S. 1910 W., 50 lks. dist., marked T 23 S R 29 E S 13 B T.	
•		An oak, 9 ins. diam., br . S. 191° W., 50 lks. dist., marked T 23 S R 29 E S 13 B T. Land, mountainous.	
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Boundaries of T. 23 S., R. 20 E.

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Latitudes, departures and closing errors.

line		True	Dist-	Lati	tudes	Depas	tures
Designated	1	Bearing	ance	N	S	E	W
outh Bdy.	•	West	479.55				479.55
lest Bdy.		Notth	240.	240.			
ubdivision	Lines	S.89º 57' E.	159.32	$\sqrt{2}$	V.14	159.32	
*	, 11		160.	160.			.09/
11	¥ .		.80.10	īν.	.05	80.10	
11	Ħ	N. 0º 6' W.	80.06	80.06		/	.14
orth Bdy.	ţ,	East	240. V		·	240.	1. A.
asthBdy,		South	480		480,		1.
onvergency			100	420,01		.36	V
			· ·	480,06	488:08	479.78	429.28
e ter de la composition de la compositi			ot in La	L	<u>480</u> ,06		479.78

General Description.

This township is bounded on the north by the Huachuca Military Reservation and embraces a portion of the Huachuca Nountain Range' There is an abundance of aak timber and some pine timber is found on top of the Mountain. The township is well watered by a number of springs and running streams. The soil is gravelly and rocky. There are some settlers within the township who have made some substantial improvements.

ATA U. S. Deputy Surveyor

29 FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS BOOK 2046 LIST OF NAMES. A list of the names of the individuals employed by _____ -----, United States Deputy Surveyor, to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the survey of ______ Hand G. boundaries and South and West hundaries of 5.23 S. R. 20 E showing the respective capacities in which they acted: arthur Coque, Chainman. Farry Mallory, Chainman. Louis Renaul, Moundman., Moundman. Q.C. Millay , Acman. Axman. F.B. Milliken, Flagman. FINAL OATH OF ASSISTANTS. We hereby certify that we assisted _____ Chilips U outzen those parts or portions of the M. and S. houndaries and South and West boundaries of I 23 A. P. 206 Gila of the. and Satt River Base & Territory of arizona, which are represented in the foregoing field notes as having been surveyed by him and under his direction; and that said survey has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the corner monuments established, according to the instructions furnished by the United States Surveyor General for Ungona arthy Figue, Chainman. Harry Mallory. Chainman. Louis Remarch Moundman. , Moundman. L. C. Millar Axman. D. Htieres, Flagman. 🗸 Subscribed and sworn to before me this day of august 190 6 7. G. Power 1, **190**8 6-151

2046 FINAL OATH OF UNITED STATES DEPUTY SURVEYOR. BOOK 10. United States Deputy Surveyor, do m solemnly swear that, in pursuance of a contract received from Frank 1. Ing all United States Surveyor General for _____ Uriz thra_____, bearing date of the proper person, and in strict conformity with the instructions furnished by the United States Surveyor or ce, the Manual of Surveying Instructions, and the laws of the General for United States, surveyed all those parts or portions of and M. boundaries and W. boundaries of J. 23 S. and 20 (ila, and ____of the..... Rivey meridian, in the Verritory of Anisong, which are represented in the foregoing field notes as having been surveyed by ne, 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 <u>*Uriforna*</u> and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey. United States Deputy Surveyor. , and sworn to before me Subscribed by said **7**, 190 this //W day of. PRIC T JUDICIAL DISTRICT, ARIZONA APPROVAL OFFICE OF THE UNITED STATES SURVEYOR GENERAL, Phoenie a.J. The foregoing field notes of the survey of the north West boundaries of J23 B, R20 E, of the the Salt River Base and Meridian in the Territory Thille Contrend executed by under his contract No. 138 , dated april 12, 1900, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved. United States Surveyor General. I certify that the foregoing transcript of the field notes of the above-described surveys in ______ , has been correctly copied from the original notes on file in this office. United States Surveyor General. 6-151