4-679.

Book C.

2149

BOOK 2149

FIELD NOTES

Fourth Standard Parallel South Through Ranges 10 40/11 East. 2149 of the Gila of Satt River Base of Meridian, Contrel , United States Deputy Surveyor, 1, dated april // , 1860 Under his Contract No. 144 Survey commenced October 6 Survey completed October 23 1d

2149

2149

BOOK 2149 NAMES AND DUTIES OF ASSISTANTS. Watter Pereiva chairman Chris Olsen chairman Q.Q. Eysight chainna chairman arthur M. Cogne moundman Henry G. Willets axman Whitacre lagman 6---151

Book No. 2149

POOK 2149

INDEX DIAGRAM.

Township		20 S.	, Range //		6	
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4.	3.	J. J.	DARD PA	, /		

Meanders Page.....

31 32 33 34 35 36 9. 1 8 1 9 1 6. 16. 4TH STANDARD PAR. SOUTH R. 10 E

PRELIMINARY OATHS OF ASSISTANTS. WE, Watter Ocreival-Chris Olson - a. a. do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain over 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 Fourth Standard Carallel South, Ranges 10 3 of 11 Ga Walte Percual, Chainman. Ohrid Older , Chainman. A. A. Zysight. Chainm Jose Dervanti Subscribed and sworn to before me this notare available do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the survey of tandard Carallel South Canges 10 4/11 Eur arthur, In Poque, Moundman. Subscribed and sworn to before me this _____ do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corners and other duties, according to instructions given us, to the best of our skill and ability, in the survey of anclard Carallel South Ranges 10 ag Henry G. Willetz, Axman. Subscribed and sworn to before me this.... Wo notary itaere 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 M. survey of the 4th Standard Parallel

Subscribed and sworn to before me this ______

6-151

STANDARD

PARALLEL SOUTH THROUGH RANGE 11 EAST.

BOOK 2149

Survey commenced October 5, 1907, and executed with a Young & Sons light mountain transit provided with Selar attachment. N= 7934.

I begin at the standard corner of township 20 south, range 11 east. Latitude 31° 384 N.
longitude 111° 104 W. as witnessed telescribed by the Surv.
Inorder to test the solar apparatus, by comparing the results of observations on the sun, with a true

meridian determined by observations on Polaris, I proceed as follows;

At 4h p. m., 1. m. t., I set off 31° 38' N. on the lat. arc; 4° 33' 5: on the decl. arc; and mark the lat. arc; 4° 33' . S: on the decl. arc; and mark the meridian thus determined with the solar, by a cross on a stone, firmly set in the ground 5 chs. N. of my station.

At 6h 37' p. m. I observe Polaris at Eastern elongata ion, in accordance with instructions in the Manual. and mark the line thus determined by a tack driven in a wooden stake 5 chs. N. of my instrument. October 5, 1907.

October 6, 1907; At 7h 30' a. M. I lay off the azimuth of Polaris 1° 23.7' to the west and mark the meridian thus determined, by cutting a groove in the stone, on which the meridian falls 0.42ns. east of the mark

At 8h a. m. I set off 31° 38' N. on the lat. arc; 4° 48' S. on the decl. arc, and mark the true meridian determined with the solar, by a cross on the stone already set 5 chs. N. of my instrument; this mark falls 0.3 ins. east of meridian by Polaris observation. The selar apparatus, by p. m. and a m. observations, defines positions for meridians, 25 west and 16 east of the meridian established by Polaris obser-

vation; therefore I conclude that the adjustments of the instrument are satisfactory.

From the standard corner above described, I run S. 8. bdy. of sec. 36.

Quer mountainome land descending. Gulch, 20 1ks wide, course N W; asc Top of ridge, brs N and S, descend. ascend.

Difference between measurements of 31.45 chs. is 6-1ks; position of middle point

By 1st set, 31.45 chs.

By 2nd set, 31.51 chs; the mean of which is
Old standard 1/4 cor, which is a granite stone 18 x 10

x 8 ins. loosely set; I reset same 13 ins. in the
ground and remark SC 1/4 on N. face and rebuild mound
of stone 2 ft. base, 1 1/2 ft. high N. of cor.

From shows standard 1-4 cor. old standard cor.

From above standard 1-4 cor. old standard cor of secs.

35 and 36 brs. N. 88° 5' W.

Thence I run N. 88° 5' W.

10.00 Gulch, 30 lks wide, course N W; descend.

Difference, between measurements of 39.78 chs. by two. sets of chainmen is 4 lks; position of middle point

By 1st set, 39.80 chs.

By 2nd set, 39276 cha; the mean of which is

Old standard cor. of secs. 35 and 36, which is a grantite stone firmly set, and marked 80 on N face, 1 groove on E face and 5 prooves on W face. with most of the Land, mountainous of the face. With most of the Sail, gravelly.

Sail, gravelly. We timber; undergrowth, tesotilla and mesquite.

Land mountainous or exceptionally difficult to survey, .74.23 chs.

From standard cor. of sees 1-4 cor. brs. S 89° 40' W 35 and 36, old standard Thence I run S. 89° 40' W along S bdy of sec. 35

Enter dres Clasing corner of seco. I and 2, T 21 S B 11 B Morked

39,78

20.50

31.00

31 48

D -	•	Resurvet of 4th Standard S., through A. 11 A.
153	11.70	Wash, 50 lks wide, course N
(5)	15.50	Leave draw and ascend
	30.00	Top of ridge, brs. N and S
		Difference between measurements of 39.30 chs. by two
		sets of chainmen is 4 lks; position of middle point
		By 1st set, 39.32 chs.
		By 2nd set, 39.28 chs; the mean of which is
	39.30	Old stand ard 1-4 cor. which is a porphyry stone 18 x
		12 x 8 ins. loosely set; reset same 13 ins in the
		ground and remark S C 1-4 on N face; rebuild mound
		of stone 2 ft. basell-2 ft. high N. of cor.
	1.50	From standard 1-4 cor I proceed 5:88°50'W? Wash, 20 lks wide, course N W
ļ	4.50	Spur, extending N.
	7.00	Draw 3 chs. wide, course N E
	9.25	Wash, 25 lks wide, course S W
	12.35	Wash, 40 lks wide, course N W; ascend. a steep ridge.
	26.00	Top of ridge, brs N and S (500 ft. high) descend.
	33.50	Gulch/ course N E; ascend
	38.50	Top of ridge, brs. N and S; descend.
		Difference between measurements of 43.42 chs. by two
		sets of chainmen is 6 lks; position of middle point
		By 1st set, 43.45 chs.
		By 2nd set, 43.39; the mean of which is
:	43.42	Old standard cor. of secs. 34 and 35, which is a vol-
•		canic stone 18 x 10 x 8 ins. loosely set; reset same
	·	14 ins. in the ground and remark S C on N face;
	¢ *	2 grooves on E face and 4 grooves on W. face; rebuild
-		mound of stone 2 ft base, 1 1-2 ft. high N. of cor.
	\$	Land, mountainous. Soil, gravelly and rocky; 3rd and 4th rate.
÷ "		No timber; undergrowth, tesota and mesquite.
		Land mountainous, covered with dense undergrowth or
	41.	exceptionally difficult to survey, 82.72 chs.
-		From above standard cor. of secs/34 and 35, old 1-4
·		Thence I run West on South bdy of sec. 34,
		Over mountainous land. Sudwitnessed some described by the Surv. Jen.
	9.00	oroging corner or sees. & sure of rer or it is
	13.00	Wash, 120 lks wide, course Nthen N E; ascend
	17.00	Top of spury extending N E; descend.
	23.50	Wash, 30 lks wide course N E; ascend.
	29.50 31.50	Foot of slope; ascend
	21.00	Difference between measurements of 39.73 chs. by two
		sets of chainment is 4 lks; position of middle point
		By 1st set, 39.75 chs.
	1. •.	By 2nd set, 39.71 chs; the mean of which is
	39.73	Old standard cor. which I find laying on the ground;
• • • • • •		reset sandstone 18 x 18 x 3 ins. 14 ins. in the
	i straw e	ground for standard 1-4 cor. of sec. 34, marked
	6.	S C 1-4 on N face; raise a mound of stone 2 ft. base
en e		1 1-2 ft. high N. of cor.
		From above standard 1-4 cor. I run W.
	4.70	Guach, 20 lks wide, course Seescende
	19.20	Top of ridge; descend.
	25.30	Foot of ridge; ascend
	29.30 4	Top of slope, brs E and E descend Difference between measurements of 40.15 ch s. by two
•	- € 24 mm²	sets of chainmen is 6 lks; position of middle point
5		By 1st set, 40.18 chs
• • •		By 2nd set, 12 chs; the mean of which is
•	40.15	Old standard cor. of secs. 33 and 34, which I find in
* .		a delapidated condition; reset perphyry stone 18 x
	1.25	12 x 10 ins. 14 ins. in the ground, marked S C on N
		face; 3 grooves on E and W faces; rebuild mound of
		stone 2 ft. base, 1 1-2 ft. high N. of cor.
		Land, mountainous.
		Soil gravelly.
. *		No timber.
		Mountainous or land exceptionally difficult to survey,
		79.00 GR8.

```
From standard cor. of secs. 33 and 34, old 1-4 cor
                brs. W.
            Thence I run W. on S. bdy of sec. 33.
Closing corner of secs. 3 and 4, T 21 S R 11 E, des-
cribed by the U. S. Surveyor General for Arizona.
10.48
            Wash, 10 lks wide, course N
22.70
            Draw, course N; ascend.
Top of ridge, brs N W; descend.
Difference between measurements of 39,80 chs. by two
27.00
38.00
                sets of chainmen 48 2 lks; position of middle point
                         By 1st set, 39.81 chs.
By 2nd set, 39.79 chs; the mean of which is
            Old standard 1-4 cor, a volcanic stone 18 x 8 x 6 ins.
39.80
                which I find lying on the ground; reset same 14 ins. in the ground and remark S C 1-4 on N face; rebuild mound of stone 2 ft. base/ 1 1-2 ft. high N. of cor.
            Thence I run West
            Draw, 125 lks wide, course N W, ascend. Top of ridge, brs. N and S; descend.
  8.70
14.00
15.00
            Foot of ridge.
17.00
            Spur, extending N W; descend.
            Foot of spur; ascend.
Top of ridge, brs N W;
18.00
            Top of ridge, brs N W; descend.
Enter Sopori Valley and dense tesota and mesquite
20.000
28.00
                undergrowth.
                Difference between measurements of 40.00 chs. by two
                sets of chainmen is 6 lks; position of middle point
            By 1st set, 40.03 chs
By 2nd set, 39.97 chs; the mean of which is
I find a delapidated mound of stone and faint traces
40.00
            of the standard corner. I set a granite stone 18 x 6 x 6 ins. 14 ins. in the ground for the standard cor. of secs. 32 and 33, which I mark S C on N face; 4 grooves on K face and 2 grooves on W face; raise a mound of stone 2 ft. base, 1 1-2 ft. high N. of cor.
            Land, mountai nous.
            Soil, gravelly; 2nd and 3rd rate
            No timber; undergrowth, mesquite and tesota.

Mountainous or land exceptionally difficult to survey,
79.80 chs.

October 6, 1907.
            October 7th; At 8h a m, 1 m t, I set off 31°39' N of the lat arc; 5° 11½ S. on the decl. arc; and
                determine a true meridian with the solar, at the standard corner of secs. 32 and 33, set by me last
                night.
            Thence I run West along S. bdy of sec. 32. Over level land, through dense undergrowth. Sopori wash, 50 lks wide, course N. Brush fence, brs. M 80 W.
  4.00
  5.80
            Closing corner of secs. 4 and 5 T 21 S R 11 E as des-
9.38
                cribed by the U. S. Surveyor General for Arizona.
19.16
20/50
26.50
            Irrigating ditch.
            Well, 10 chs. S.
Canas House, 5 chs S; adobe shack belonging to Leonardo
            Saurez, 6 chs. N.
Wire fence, brs N and S
Road, brs N W and S E
27.95
33.87
            Difference between measurements of 39.90 chs. by two sets of chainmen is 4 lks; position of middle point
                         By lst set, 39.92 chs
            By 2nd set, 39.88 chs; the mean of which is
I find faint traces of old 1-4 cor; I reset sandstone
18 x 12 x 10 ins., 14 ins. in the ground, and mark
same S C 1-4 on N face; raise a mound of stone 2 ft.
base, 1 1-2 ft. high N. of cor.
39.90
            From above cor, old standard cor. of secs. 31 and 32
                brs West.
            Thence I run West
            Brush fence, brs N E
Road, brs N E and S W
Wash, 30 1ks wide, course N E
```

155.

Draw, 2 chs. wide, course N E; ascend. Top of slope, brs N E and S W 18.10 23.60 Difference between measurements of 39.27 chs. by two sets of chainsen is 2 lks; position of middle point

By 1st set, 39.98 chs

By 2nd set, 39.86 chs; the mean of which is

Old standard corner of secs. 31 and 32, which is an

sandstone 18 x 10 x 10 ins. lying on the ground; 39,97 reset same 14 ins. in the ground and remark S C on N face; 5 grooves on E face and 1 groove on W face; raise a mound of stone 2 ft. base, 1 1-2 ft. high N of cor. The above corner is erroneously described in the original notes. Land, rolling and level. Soil, gravelly.

No timber: undergrowth, mesquite and tesota.

Land covered with dense undergrowth and exceptionally difficult to survey, 79.87 chs. From ab ove standard cor. of secs. 31 and 32, old 1-4 cor. brs West. Thence I run West along S bdy of sec. 31. Over level and rolling land; through dense undergrowth Closing corner of secs. 5 and 6 T 21 S R 11 E, which is a sandstone 24 x 15 x 10 ins. as described by the 9.85 Surveyor General for Arizona. Wash, 10 lks wide, course N W; ascend.
Road, brs N W; ascend
Top of ridge, brs N and S; descend.
Wash, 15 lks wide, course S E
Difference between measurements of 39.79 chs. by two 11.70 19.15 33.00 36.70 sets of chainmen is 6 lks; position of middle point By 1st set, 39.82 shs.
By 2nd set, 39.76 chs; the mean of which is Old standard 1-4 corner which I find is a volcanic 39.79 stone 18 x 10 x 10 ins. lying on the ground; reset same 14 ins. in the ground and remark S C 1-4 on N face; raise mound of stone 2 ft. base, 1 1-2 ft. high N. of corner. From above corner, old standard corner of tps. 20 S., ranges 10 and 11 E brs West.

Thence I run West on S bdy of sec 31 Wash, 60 lks wide, course S E 21.35 Wash, 50 lks wide, course S E 27.00 Rocky spur, extending N E 31.00 The difference between measurements of 39,81 chs. by two sets of chainmen is 2 lks; position of middle point By 1st set, 39.88 cns By 2nd set, 39.80 chs; the mean of which is Old standard corner of tps. 20 south, ranges 10 and 11 east, which I find in a delapidated condition. Reset sandstone 18 x 12 x 10 ins., 27 ins. in the ground, 39. 8 and mark same with 6 grooves on N, E and W faces, also S C on N face, from which

A hackberry tree 8 ins. diam. brs N 4º 15' E 297
lks dist; marked T 20 S R 11 E S 31 B T A mesquite tree 6 ins. diam. brs N 19° 30' W 250 lks dist; marked T 20 S R 10 E S 36 B T Land, level and rolling. Soil, gravelly and rocky.
No timber except a few mesquite and hackberry. Land to vered with dense undergrowth or exceptionally difficult to survey, 79,060chs. October 7, 1907.

NOTE.

The course of this line was ascertained by direct solar observations with the solar attachment, at intervals of 10 and 20 chains, therefore it is a true standard line.

Resurvey 4th Standard Par. S., thro R. 11 E. (Concld).

GENERAL DESCRIPTION.

BOOK 2149 156

The Fourth Standard Parallel South through Range 11 East traverses a mountainous country, the soil of which is very gravelly. Several settlers are located on each side of the line. There is no timber and the undergrowth is dense mesquite and tesota.

U. S. Deputy Surveyor.

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BOOK 2149

October 22, 1907; At 8h 15m a. m., 1. m. t., I set off 31° 39' N. of the lat. arc; 10° 56' S. on the decl. arc and determine a true meridian with the solar at the standard corner of tps. 20 S., Rs. 10 and 11 East. I test the meridian thus determined, on the line through Range 11 E, which I finished Oct. 7th, and find the result to check, consequently I conclude the adjustments of my instrument are satisfactory. From above corner, old standard 1-4 cdr. brs West. Thence I run Vest on S bdy of sec. 36.
INTERSECT CLOSING CORNER OF TPS 213.RGS, 10 all E, WHICH IS A STONE G * 12 * 14 INS.
ABOVE GROUND, MARKED AND WITNESSED AS DESCRIBED BY THE SURV. GENL. 10.35 Top of raise,; descend. 26.42 Difference between measurements of 39.63 chs. by two sets of chainmen is 4 lks; position of middle point

By 1st set, 25.65 chs;

By 2nd set, 25.61 chs; the mean of which is

Find trace of old 1-4 cor; re-establish same by setting
a porp hyry stone 21 x 8 x 8 ins., 16 ins. in the
ground, for standard 1-4 cor., marked S C 1-4 on N
face; raise a mound of stone 2 ft. base, 1 1-2 ft.

high N. of cor. 40.63 From this corner old standard corner brs. West. Thence I run West Dry wash, 10 lks wide, course S E 21.95 Difference between measurements of 39,69 chs. by two sets of chainmen is 2 lks; position of middle point By 1st set, 39.68 chs
By 2nd set, 39.70 chs; the mean of which is
Old standard corner of secs. 35 and 36, bearing tree 39.69 cut down; reset malpais stone 18 x 8 x 6 ins. 214 ins. in the ground; marked S C on N face; 1 groove on E face and 5 grooves on W face; raise a mound of stone 2 ft. base, 1 1-2 ft. high N. of cor. Land, rolling. Soil, stony and rocky; 2nd and 3rd rate. No timber.; undergrowth, tesota and mesquite. Land covered with dense undergrowth or exceptionally difficult to survey, 79.32 chs. 80.32 cha From above corner, old 1-4 sec. cor. brs West.
Thence I run West S. of sec. 35.; ascending over rolling course S E Difference between measurements of 39.85 chs. by two sets of chainmen is 4 lks: position of middle point By 1st set, 39.83 chs
By 2nd set, 39.87 chs; the mean of which is
39.85 Find pits and delapidated mound of stone but no corner stone. Re-establish cor. by setting a porphyry stone 21 x 8 x 8 ins. 15 ins. in the ground, marked S C 1-4 on N. face; rebuild mound of stone 2 ft. base,/1-2 ft. high N of corner. From ab ove 1-4 cor old standard cor. of secs 35 brs. West. Thence I run West .73 Dry wash, 10 lks wide, course S E 14.00 Arivaca stage road, brs N E and S W 31.75 Dry wash, course S E, 10 lks wide . Difference betsen measurements of 40.08 chs. by two sets

of chainmen is 6 lks; position of middle point

By 1st set, 40.05 chs

By 2nd set, 40.11 chs; the mean of which is

40.08 Old standard cor. which I find lying on the ground.

Reset stone 18 x 10 x 10 ins. 2 14 ins. in the ground, for standard cor of secs 34 and 35; marked S C on N face; 2 grooves on E face; 4 grooves on W face; rebuild mound of stone 2 ft. base, 1 1-2 ft. high N of cor. Land, rolling and level

Soil, rocky and gravelly No timber,; undergrowth, tesota and mesquite. 2149 Resurvey 4th Standard Par. S., thro R. 10 E. Land covered with dense undergrowth or exceptionally difficult to survey, 79.93 chs. October 22nd; At 1lh 45m a. m., 1.m.t., I set off 10° 50' S. on the decl. arc and observe the sun on the meridian. The resulting latitude is 31° 39'/N. which agrees with my other calculations. From the cor. of secs. 34 and 35, old 1-4 cor. brs. West Thence I run West S. of sec. 34; descending over rolling hills. Dry wash, 10 1kg vide, course N V: 24.00 Difference between measurements of 39.92 chs. by two sets of chainmen is 2 lks; position of middle point By 1st set, 39.91 chs.

By 2nd set, 39.93 chs; the mean of which is

Old standard 1-4 corner, which is a granite stone firmly

set in the ground; remark same S C 1-4 on N face and 39.92 rebuild mound of stone 2 ft. base, 1 1-2 ft. high N of cor. From above standard 1-4 cor, old standard cor. of secs. 33 and 34 brs. West. Thence I run West. 6.80 Road, brs S W 11.20 Dry wash, 60 lks wide, course S E 12.70 Ranch, 6 chs. South Road, brs N W 12.55 12.65 4 wire fence, brs N W Road, brs southerly Dry wash, 10 lks wide, course N 4 wire fence, brs. WW and SE. 20/60 31.10 33.90 Difference between measurements of 40.30 chs. by two sets of chainmen is 4 lks, position of middle point
By 1st set, 40.32 chs
By 2nd set, 40.32 chs; the mean of which is
Old standard cor. of secs. 33 and 34 which is a malpais
stone 18 x 10 x 10 ins., loosely set, which I reset
/2 14 ins. in the ground; remark same S C on N. face;
3 grooves on E and W faces; rebuild mound of stone
2 ft. base, 1 1-2 ft. high N. of cor. 40.10 40.30 Land, mountainous. Soil, gravelly and stony; 2nd and 3rd rate. No timber; undergrowth tesota and mesquite. Land mountainous, covered with dense undergrowth, exceptionally difficult to survey, 80.22 chs. 80.02 cho From the standard cor. of secs. 33 and 34, old 1-4 cor. brs. West. Thence I run West S. of sec. 33. over mountainous land. Dry wash, 15 lks. wide, course N. 3.80 Dry wash, 20 lks wide, course N Dry wash, 10 lks wide, course N E. 11.40 20.60 Difference between measurements of 39.55 chs. by two sets of chainmen is 4 lks; position of middle point
By 1st set, 39.57 chs,
By 2nd set, 39.53 chs; the mean of which is
Old standard 1-4 cor. which I find loosely set. Rese
malpais stone 18 x 7 x 6 ins./234 ins. in the ground
and remark same S C 1-4 on N face; rebuild mound of
stone 2 ft. base, 1 1-2 ft. high N. of cor. 39.55 From above 1-4 cor, old standard cor. of secs. 32 and 33 brs. West. Thence I run west 1.00 Dry wash, 10 lks wide, course N E Dry wash, 30 lks wide, ourse N E 5.00 30.15 Enter mountainous land. 37.00 Mine shaft 50 lks south Difference between measurements of 40.15 chs. by two sets of chainmen is 2 lks, position of middle point By lst set, 40.16 chs
By 2nd set, 40.14 chs, the mean of which is

```
40.15
           Find mound of stone . Set granite stone 21 \times 8 \times 8 ins
           16 15 ins. in the ground, for standard corner of secs.

32 and 33; marked S C on N face; 4 grooves on E face;
2 grooves on W face; build mound of stone 2 ft. base,
              1 1-2 ft. hi gh N. of cor.
            An oak 8 ins. diam. brs. N. 10° W. 86 lks dist; marked T 20 S R 10 E 32 B T.
               Pesqueira Mining camp brs S W 40 chs. dist.
           Land mountainous and extremely rocky.
           Soil, gravelly, 2nd and 3rd rate.
          No timber; undergrowth, tesota and mesquite.

Mountainous land, land \infty vered with dense undergrowth, or exceptionally difficult to survey, 79.70 chs.

October 22, 1907.
           October 23rd; at 8h 05' a.m., l.m.t., I set off 31° 39' N. on the lat. arc; 11° 07' S. on the decl. arc.,
             and determine a true meridian with the solar, at the
             standard corner of secs. 32 and 33.
           Standard 1-4 sec. cor. brs West.
Thence I run West S. of sec. 32. lover rocky mountainous
             land.
          Dry wash, 25 lks wide, course northerly Mine shafts N and S of line Dry wash, 10 lks wide, course N W Dry wash, 10 lks wide, course N E
10.30
 15.08
25.00
28.10
          Difference between measurements of 40.66 chs. by two
              sets of chainmen is 4 lks; position of middle point
                      By 1st set, 40.68 chs
By 2nd set, 40.64 chs; the mean of which is
          Old standard 1-4 cor which is a sandstone 18 \times 10 \times 10 ins. lying on the ground: reset same 24 ins. in the
 40.66
             ground and remark S C 1-4 on N face, whence
A mesquite 5 ins. diam. brs N. 40° E 140 lks dist;
                 marked S C 1-4 S 32 B T.
             Rebuild mound of stone 2 ft. base, 1 1-2 ft. high N.
             of corner.
          Old standard corner of secs. 31 and 32 brs. 8 89° 10'W. Thence I run S# 89° 10' W.
          Dry wash, 20 lks wide, course N E
Dry wash, 10 lks wide, course northerly; ascend.
Top of spur, brs N and S
Dry wash, 20 lks wide, course northerly.
Dry wash, 20 lks wide, course northerly.
  5.60
12.60
27.00
32.20
37.00
          Difference between measurements of 39.70 chs. by two
             sets of chainmen is 4 lks; position of middle point
                     By 1st set, 39.72 chs;
By 2nd set, 39.68 chs; the mean of which is
          Find a delapidated moundof stone, evidently for cor. of
39.70
             secs. 31 and 32. I set granite stone 21 \times 12 \times 5
                     16 ins. in the ground, which I mark S C on N 5 grooves on E fade and 1 groove on W face;
             ins.,
             rebuild mound of stone 2 ft. base, 1 1-2 ft. high N.
             of corner.
          Land mountainous.
          Soil, gravelly; 3rd and 4th rate.
          No timber; undergrowth, mesquite and tesota.
          Land mountainous, covered with dense undergrowth, or
             exceptionally difficult to survey, 80.36 chs.
          Thence I run West S of sec. 31, ascending over mountain-
             ous land.
 2.76
          Graded road.
3.80
10,70
         Top of ridge; descend.
Dry wash, 15 lks wide, course northerly; ascend slope
24.30
          Top of round point; descend
          Ft. of slope; dry wash, 10 lks wide, course northerly;
37.50
          Old standard 1-4 corner which is a granite stone 18 x
```

8 x 8 ins/ lososely set; I reset same 15 ins. in the

160

ground and remark S C 1-4 on N. face; rebuild mound of stone 2 ft. base, 1 1-2 ft. high N. of cor.
Thence I run West

Top of high ridge, brs Wand S; descend Surveyor General Gorner point falls in slide rock. Difference between measurements of \$4.80 chs. by two sets of chainmen is 6 lks; position of middle point By 1st set, 54083 chs

54.80

By 2nd set, 54.77 chs; the mean of which is
Old witness corner, which is a granite stone 20 x 12 x 6
ins. loosely set. I reset same 15 Ins. in the ground
and remark W C S C on N face; 6 grooves on E and W. Ix
faces; rebuild mound of stone 2 ft. base, 1 1-2 ft.
high N. of corner.
Land mountains

Land, mountainous.

Soil, gravelly and rocky.

No timber; undergrowth, tesota and mesquite.

Land mountainous, covered with dense undergrowth, or
exceptionally difficult to survey, 24.65 chs.

October 23, 1907.

NOTE.

The Bourth Standard Parrallel South was checked on the meridian as determined by direct solar observations at intervals of 10 and 20 chains.

GENERAL DESCRIPTION.

The Fourth Standard Parallel South runs over a mountainous, heavily mineralized country. mining claims adjoin the line, and some development work has been done. The soil is gravelly and there Undergrowth, which is plenti is practically no timber. ful, is tesota and mesquite.

U. S. Deputy Surveyor.

Philip Contes

For guttanty for sed with connections See Sleputy letter Zor. > 3-1908.

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

BOOK 2149

LIST OF NAMES.	
A list of the names of the individuals employed by	Jouleyen
, United States Deputy Surveyor, to assist in running	g, measuring, and
marking the lines and corners described in the foregoing field notes of the survey of	the 4th
showing the respective capacities in which they acted:	10 11/1/X
- Cosio at	Chainman.
Walter Perciva	
Jese Vervoule	, Moundman.
Chris Olsen	, Moundman.
	, Axman.
	, Axman.
:	\dots , $Flagman$.
FINAL OATH OF ASSISTANTS.	
We hereby certify that we assisted	
, United States Deputy Surveyor,	1 1
those parts or portions of the # Thanklard Larace	
South through Ranges 10 gd 118	
	,
0.17	
Gila Glatt & Breridian, Verritory of Cripona, which	e
in the foregoing field notes as having been surveyed by him and under his direction; and	
has been in all respects, to the best of our knowledge and belief, well and faithfully su	that said survey rveyed, and the
corner monuments established, according to the instructions furnished by the United	States Surveyor
General for Arizona - A. Lysight	chainman
General for Anizona A. Lysight	, Chainman.
Jose Gervanti-Walker Percual	. Chainman
Jose Gervanti-Walter Percual	. Moundman
	, Moundman.
	A career care
L. H. Mhitacri	2 Arman
L. Il Mitacre	Flaman
	, 1 wymun.
Subscribed and sworn to before me this 26 (1)	
day of December, 18907 \ Ohilifo (C)	-
COCCOCO SEAL O M. S. D. e. D. L.	Lurvelar
6-151 No notary or	nailable
	and q

-	
1	Chilifo (Ontgen , United States Deputy Surveyor, o
1, 	Swear that, in pursuance of a contract received from Trank . Lugar
Inited St	ates Surveyor General for
omied St	day of April 197, I have well, faithfully, and truly, in my ow
roner ne	rson, and in strict conformity with the instructions furnished by the United States Survey
General fo	or Carbona, the Manual of Surveying Instructions, and the laws of t
United St	or Cuif on a , the Manual of Surveying Instructions, and the laws of the sates, surveyed all those parts or portions of the Handland
Pari	allel South, through Ranges 10411 Sast
	, , ,
	of the Gila and Sal
Pieron 1	Base & meridian, in the Verritory of Crizone, which are represented in t
	field notes as having been surveyed by me, and under my direction; and I do further solemn
	t all the corners of said survey have been established and perpetuated in strict accordance wi
	al of Surveying Instructions, and the special written instructions of the United States Survey
	or Luizan and in the specific manner described in the field notes, and the
	oing are the original field notes of such survey; and should any fraud be detected, I will suf
the penal	ty of perjury under the provisions of an Act of Congress approved August 8, 1846.
	Chilito Consen
	United States Deputy Survey
	01.11/14
Subscribe	ed by said hilifo (might, and sworn to before me)
	s 26 day of December, 1907
6111	s and day of Africa (1907)
	James & Wensear
	999999 9 SEALO 900000
	Territory of Arizona.
	APPROVAL.
	OFFICE OF THE UNITED STATES SURVEYOR GENERAL,
٠	Thorning class Class (6, 189)
Th	the foregoing field notes of the survey of t
Mau	land Tarallel (O aut Manga Clauges / Cos
Jel	and Walt River Dase and Mendian Umana
	1. (Will but so HI dobut Lucano
executed	
	S CONTI act 110.
	examined, and the necessary corrections and explanations made, the said field notes, and
surveys	they describe, are hereby approved.
	United States Surveyor Gene
	Onneg Suiveyor Gene
I	certify that the foregoing transcript of the field notes of the above-described surveys in

United States Surveyor General.