B. k O BOOK 2204

accepted S. V. O. letter E.

# FIELD NOTES

2204

OF THE SURVEY OF THE North and East Boundaries of ewnship 24 South Rouge 15 East Of the Tila and SalfRiver Base and Meridian, AS SURVEYED BY oss Kleury, United States Deputy Surveyor, Under his Contract No. 145 , dated March , 190 8 ctaber 13. , 1908 Survey commenced .. z 17 ....., 190 S Survey completed.

2204

2204

54. P

### NAMES AND DUTIES OF ASSISTANTS.

BOOK 2204	
· Jim Co Kelle	a Chainman
Harry N Care	
Thomas Joseps	Moundinan
Ing Orlaberts	akuan
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6—151	

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BOOK 2204

## INDEX DIAGRAM.

Town	nship 💐	45	, Range	15 &	
1	2	3	3	4	4
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Maria	Jautisuus Care	X + Jane			
I	1	1	four		
. 18	17	16	15	14	13 7
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80	29	28	27	26	25
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81	82	83	<b>34</b>	85	36

Meanders Page.....

6	and the second s
	2204 PRELIMINARY OATHS OF ASSISTANTS.
OOK	
	WE, Jim a Kellis and Narvey N Care
	olemnly swear that we will well and faithfully execute the duties of chainmen; that we will level th
	in upon even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that
	will report the true distances to all notable objects, and the true lengths of all lines that we assist i
meas	suring, to the best of our skill and ability, and in accordance with instructions given us, in the survey of
the	north and East boundary of J 245- 12 15 E
	Chainman
	Daniel H. Col & Chainman
Q. ha	scribed and sworn to before me this)
	$\langle a + b \rangle$
•	day of Colober, 190 ) Jacobs
	My commission expires September 20, 18 Polary Rublic
	I though the stand
	WE, June Juco ond
	solemnly swear that we will well and truly perform the duties of moundmen in the establishmen
. //	grners, according to the instructions given the to the best of skill and ability, in the survey of
the	nont and East boundary of J. 245. R15 E
	Thomas Jacob, Moundman
	Thomas Jacob, Moundman
	, Moundmar
0.1	scribed and sworm to before me this $\mathcal{L}_{\ell_{m,m}}$
•	day of Oclober, 190 )
	******
	My commission expires September 20, 1911 Palary Jublic
	Ind C. Roberts
_	VV 10,5
	olemnly swear that we will well and truly perform the duties of axmen in the establishment of corner
	other duties, according to instructions given us, to the best of the skill and ability, in the survey of
ny	Manhaud East boundary of J. 245- 17 15 E
	atres E Tobrita
	$\mathcal{O}_{\mathcal{O}}$
	, Axmar
Subs	scribed and sworn to before me this
`	day of Oclober, 190
	day of acceptance, 190 ()
	Mu summission avairas Santa
	My commission expires September 20, 18 Rolary Public
e	I,, do solemnly swear that I will well and trul
perio	form the duties of flagman according to instructions given me, to the best of my skill and ability, in the
surv	7ey of
	, ${\it Flagmar}$
Subs	scribed and sworn to before me this)
	·
	day of, 190

6-151

#### Chains.

Survey commenced October 13, 1908, and executed with a Gurley light mountain transit, with solar attachments. The horizontal limb is provided with two double verniers placed opposite to each other, reading to simple minutes of arc, which is also the least count of the verniers of the latitude and declination arcs.

We 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 we proceed as follows

At our camp at the cor. of Tps. 23 and 24 S., Rgs. 14 and 15 E., lat. 31 22' 37" N., lon. 110 51' 30" W., we set off 31 23'N on the lat. arc; 7°52' S. on the decl. arc; and at 4h.45m.p.m., l.m.t., determine a meridian with the solar, and mark a point thereof, on a stone firmly set in the ground 5 chs. N. of the cor. October 13, 1908.

At 5h 53 m. a.m. 1; m.t., we observe Polaris October 14; at western elongation, in accordance with Manual of Instructions, and mark a point in the line thus determined, on a peg driven in the ground, 5 chs. N. on our station.

At 7h.a.m. l.m.t., we lay off the azimuth of Polaris 123' to the east, and mark the meridian thus determined, by cutting a small groove in the stone set October 13, on which the meridian falls 0.3 ins.

east of that determined by the solar.

At 7h. 10m. a.m. 1.m.t., we set off 31 23' N. on the lat. arc; 8 05'S. on the decl. arc; and mark a point in the meridian determined with the solar, by a cross on the stone already set 5 chs. N. of pur station; this mark falls 0. 3 ins. east of the meridian established by the Polaris observation.

The solar apparatus by a.m. and p.m. hbaervations

defines positions for meridians, respectively about 0' 16" east and west of the meridian established by the Potaris observations¢ therefore we conclude that the adjustments of the instrument are satisfactory. The magnetic bearing of the true meridian at 8h.a.m. is N. 13°40 W. the angle thus determined gives the

mag. decl. 13°40! E.

Thence we run

East on a true line, bet. secs. 6 and 31.

Over mountainous land.

Wire fence, brs. SE and NW.

Cross a field.

Wire fence, brs. NE and SW.

Leave field.

Ascend.

10.15

Rocky ridge, brs. NE and SW. Wash. 20 lks. wide, course N.

Road, brs. N. and S.

Dry wash, course north,

24.00 Top of flat meaa.

Road, brs. SE and NW. Road, brs. SE and NW. Allowing for convergency.

Set a granite stone, 18 x 8 c 5 ins., 12 ins. in the ground, for. 2 sec. cor., marked 2 on N. face, from which

,05

8.00

15.50

16.00 18.00

26.00

39.12

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58
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Chains.
                A mesquite, 10 ins. in diam. brs. S. 36½ E., 62 lks. dist., marked ½ S 6 B T.
                A mesquite, 10 ins. in diam. brs. N. 67\frac{1}{2} W., 86 l ks. dist., marked \frac{1}{4} S 31 B T.
                Raiss a mound of stone 3ft. base, 2ft. high, N. of
                  cor.
                Road, brs. NE and SW. Road, brs. NE and SW.
44.70
58.00
                Descend.
                 Artificial Kake, 2 chs. wide, 6 chs. long, brs. SE.
67.50
                  and NW.
            Santa Cruz river ( dry ) 2 chs. wide, course N. Mouth of wash, 1 ch. wide, course S. 75 W. Road, brs. NE and SW.
71.00
73.00
79.00
                Set granite stone, 24 x 8 x 6 ins., 18 ins. in the ground, for cor. of secs. 5. 6. 31 and 32, marked
79.12
                  with 1 notch on W. and 5 notches on E. edge, and
                  waise a mound of stone 4ft. base, 2ft. high, around
                 cor. stone; from which
A hackberry, 24 ins. in diam. brs. N. 52 E., 220 lks.
dist., marked T 23 S R 15 E S 32 B T.
                A willow, 8 ins. in diam. brs. S. 59% E., 133 lks. dist., marked T 24 S R 15 E S 5 B T.

A walnut, 8 ins. in diam. brs. S. 13°W., 150 lks. dist., marked T 24 S R 15 E S 6 B T.

A walnut, 10 ing in diam.
                 A walnut, 10 ins. in diam. brs. N. 12 W., 150 lks.
                  dist., marked T 23 S R 15 E S 31 B T.
                 Land, mountainous.
                 Soil 2nd and 3rd rate.
                 Timber, mesquite, willow, walnut and hackberry.
Mountainous land, exceptionally difficult to survey,
                                                                                     79.12 chs.
                 East, buta true.line.lbet. secs. 5 and 32. Over broken and mountainous land.
                 Enter wash, 2 chs. wide, course W.
16.00
          washLeave wash on N. side.
38:00
                 Set a granite stone, 24 x 10 x 6 ins., 18 ins. in the ground, for \frac{1}{2} sec. cor. marked \frac{1}{2} on N. face, and raise a mound of stone 3ft. base, 2ft. high, around
40.00
                 cor. stone; from which A mesquite, 24 ins. inddiam. brs. S. 26° R., 170 lks. dist., marked & S 5 B T.
                 A walnut, 30 ins. in diam. brs. N. 69½ W., 82 lks. dist., marked & S 32 B T. Reenter wash, course W.
62.00
                 Leave wash, course W.
67.0d
                  Ascend steep N. slope.
                  Top of ascent.
79.0Q
                 Descend
Gulch, 5 lks. wide, course N.
79.5d
                 Set a granite stone, 24 x 18 x 8 ins., 18 ins. in the ground, for. cor. of secs. 4. 5. 32 and 733, marked with 4 notches on E. and 2 notches on W. 6486; from
80.0d
                   which
                 A walnut, 12 ins, in diam. brs. N. 81°E., 124 lks. dist., marked T 23 S R 15 E S 33 B T.

An oak, 14 ins. in diam. brs. S. 312°E., 115 lks. dist., marked T 24 S R 15 E S 6 B T.
                  An oak, 14 ins. in diam. bre. S 831 W., 30 lks. dist., marked T 24 S R 15 E S B T.
                  An oak, 12 ins. in diam. brs. N. 83° W., 80 lks. dist., marked T 23 S R 15 E S 32 B T.
                  Land, mountainous.
                  Soil, 3rd rate.
                  Timber, oak, walnut and mesquite.
Mountainous land, exceptionally difficult to survey,
                                                                                        80.00 chs.
                                                                October 14, 1908
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October15; At 7h. a.m. 1.m.t., we set off 31 23N on the lat. arc; 8027 s on the decl. arc; and determine a
Chains.
                meridian with the solar at the cor. of secs. 4. 5.
                32 and 33, on the N. bdy of Tp. recently established
                by us.
               Thence we run
               East on a true line, bet. secs. 4 and 33.
               Road, brs SE and NW.
 5.00
               Reenter wash. course W.
13.00
               Leave wash. course W. Road, brs. NE and SW.
34.00
38.75
               Set a granite stone, 24 x 12 x 6 ins., 18 ins. in the ground, for \(\frac{1}{4}\) sec. cor., marked \(\frac{1}{4}\) on \(\frac{1}{3}\). face, from
40.00
               A caccelaw, 8 ins. in diam. brs. S. 17°E., 53 lks. dist., marked & S 4 B T.

A mesquate, 24 ins. in diam. brs. N. 61°W., 41 lks. dist., marked & S 33 B T.

Reenter wash
               Reenter wash, Read, dbrs. E and W.
44.00
B4200
                Leave wash.
64.50
                Ascend steep ridge.
                Road, brs. NE and SW.
67.00
               Top of ridge, brs. SE and NW. Descend abruptly.
71.00
79.00
               Set a granite stone, 24 x 18 x 8 ins., 18 ins. in the ground, for. cor. of secs. 3. 4. 33 and 34, marked
80.00
                with & notches on E and W. edges, from which A mesquite, 24 ins. in diam. brs. N. 83 E., 90 lks.
                 dist., marked T 23 S R 15 E S 34 B T.
in oak, 18 ins. in diam.brs. S. 171 E., 62 lks. dist.
                An oak,
                 marked T 24 S R 15 E S 3 B T.
                An oak, 16 ins. in diam. brs. S. 29½ W., 87 lks. dist., marked T 24 S R 15 E S 4 B T.

A hackberry, 18 ins. in diam. brs. N. 59½ W., 68mlks.
                 dist., marked T 23 S R 15 E S 33 B T.
                Land, mountainous, examptionally difficult to survey, Soil, 2nd and 3rd rate. 80.00 chs.
               Timber, oak, mesquite and walnut.
                East on a true line, bet. secs. 3 and 34.
                Over mountainous land, through dense undergrowth.
  9.00
                Road, brs SE and NW.
                Reenter wash, course N. 80W.
 31.00
                Leave wash.
 34.00
                Ascend. rocky hill.
 35.00
                Set a granite stone, 24 x 10 x 5 ins., 18 ins. inthe ground, for \frac{1}{2} sec. cor., marked \frac{1}{2} on N. face, and
 40.00
                  raise a mound of stone, 3ft. base, 2ft. high, N. of
                              Pits impracticable.
                  COT.
                Descend over bluff.
 43.00
                Reente : wash,
 44.00
                Leave wash. comes from S.E.
 64.00
                 Ascend.
 67.0¢
                 Gulck, 15 lks. wide, course S.
 72.00
                 Ascend.
                Ridge, brs. N. and S. Descend. abruptly.
 76.00
                Bottom
 80.00
                 Set granite stone, 24 x 10 x 6 ins., 18 ins. in the ground, for cor. of secs. 2. 3. 34 and 35, marked
                  with 2 notches on E and 4 notches on W .edges, from
                 A mesquite, 24 ins. in diam. brs. N. 29½ E., 105 lks dist., marked T 23 S R 15 E S 35 B T.

A walnut, 24 ins. in diam. hrs. S. 5½ E., 100 lks. dist., marked T 24 S R 15 E S 2 B T.
                  which
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### Sorth Boundary of T 24 S., R 15 E.

Chaine	
Chains	
	A mesquite, 16 ins.in diam. brs. S. 29 W., 129 lks.
	dist., marked T 24 S R 15 E S 3 B T. No other tree
	available.
	Raise a mound of stone 4 ft. base, 2ft. high, W of
	cor. Pits impracticable.
	Land, mountainous.
	Soil, 3rd rate.
	boll, blu lave.
	Timbe, mesquite and walnut.
	Mountainous land covered with dense undergrowth,
ĺ	exceptionally difficult to survey, 80.00 chs.
	drop of the first of the survey and
	October 15, 1908
	October 16;At 7h.3om.a.m. 1.m.t., we set off 31 23 W on
	the lat. arc; 8°51 s. the decl. arc; and determine
	a meridian with the solar at the cor. of secs. 2. 3.
ļ	34 and 35, on the N. bdy of the Tp.; Aboutd we run
	East convarture line, bet. secs. 2 and 35;
11.00	Ascendi abruptly/.
22.00	Ridge, brs. N. and S.
	Descend abruptly.
29.75	Reenter N. fork of wash, course SW.
32.50	Leave wash.
32.00	
	Ascend abruptly.
35.00	Top of bank.
	Ascend rocky ridge.
40.00	
40.00	Set a granite stone, 16 x 8 x 5 ins., 12 ins.in the
	ground, for 1 sec. cor., marked 1 on N. fæe, from
	which
	A mesquite, 6 ins. in diam. brs. N.86 E., 56 lks. dist.,
1	mental 1 6 25 D m
	marked 2 S 35 B T.
	A mesquite 8 ins. in diam. brs. S. 702 E., 47 lks. dist.,
	marked 1 S 2 B T.
40.00	
49.00	Road, brs. SE and NW.
50.00	Descend.
53.00	Gulch, 20 lks. wide, course S.
	Begin ascent of high mountain.
MO 00	
70.00	Descend.
79.50	Gulch, 20 lks. wide. course N. 60 W.
	Ascend.
80.00	Set a granite stone, 30 x 12 x 4 ins., 24 ins. in the
00.00	bet a grante bone, or a real restance in the
1	ground, for. cor. of secs. 1. 21 35 and 26, marked
	with 1 notch on E. and 5 notches on W. edge, from
	which
	An oak, 20 ins. in diam. brs. S. 55 R., 136 lks. dist.,
	months at 0.4 c. D. S. T. C. J. D. M.
	marked T 24 S R 15 E S 1 B T.
	An oak, 12 ins. in diam.brs. S. 83½ W., 91 lks. dist.
	marked T 24 S R 15 E S 2 B T.
	An oak, 16 ins. in diam. brs. N $7\frac{1}{2}$ W., 44 lks. dist.,
	model 10 110 o 111 within 115 o 11 7 we get labe with a
	marked T 23 S R 15 E S 35 B T. No other tree
	available; raise a mound of stone, 4 ft. base, 2ft.
	high, W. of cor. Pits impra cticable.
	Land, mountainous.
	Soil 2nd and 3rd rate.
	Timber, oak and mesquite. 80.00 chs.
	Mountainous land, exceptionally difficult to survey,
	At this cor at noon I set off 8°49'S, on the declare
	and observe the sun on the meridian; the resulting
	1 1 2 4 1 4 4 2 TO 2 IN
	latitude is 31°23'N.
_	
	Roat on a true line hat acce 1 and 20
	East on a true line, bet. secs. 1 and 36.
	Over mountainous land.
.4.00	Mimers cabin, dugout and stone, on line.
18.00	Gulch, 10 lks. wide, course S. 80 W.
20.00	
	Ascent becomes very steep.
40.00	Set a granite stone, 16 x 8 x 6 ins., 12 ins. in the
1	1

Chains	
	ground, for \(\frac{1}{4}\) sec. cor., marked \(\frac{1}{4}\)\(\tilde{0}\)n \(\tilde{N}\) face, from
	which
	An oak, 12 ins. in diam. brs. S. 2°W., 73 lks. dist.,
	marked, ASIBT.
	An oak, 12 ins. in diam. brs. N. 86 W., 48 lks. dist.
	marked 1 S 36 B T.
42.50	Summit of mountain, brs. N and S.
	Descend very syeep.
62.50	Gulch, 20,1ks.wide, course SE.
67.50	Gulch, 20 lks, wide, course SE.
74.50	Gulch. 20 lks. wode, course S. 30°E.
77.00	Road, Nogales to Washington camp. bears N.E. and S.W.
	Ascend.
80.00	Set a granite stone, 30 x 18 x 6 ins., 24 ins. in the
	ground, for cor. of Tps. 23 and 24 S., Rgs. 15 and
	16 E., marked with 6 notches on each edge; from which
	An oak, 18 ins. in diam. brs. N. 163 B., 133 lks. dist.
	marked T 23 S R 16 E S 31 B T.
	An cak, 24 ins. in diam. brs. S. $12\frac{1}{2}$ E., 35 lis. dist.,
	marked T 24 S R 16 E S 6 B T.
	An oak, 12 ins. in diam. brs. S. 651 W., 53 lks. diat.,
	marked T 24 S R 15 E S 1 B T.
4.	An oak, 10 ins. in diam. brs N. 45 W., 130 lks. dist.
	marked T 23 S R 15 E S 36 B T.
	Land, mountainous.
	Soil, 3rd and 4th rate.
	Timber, oak and pine.
	Mountainous land, exceptionally difficult to survey,
	80.00 cha.
1	October 16. 1908.
1 *	

# East Boundary of T 24 S., R 15 E.

١		
	Chains	on the lat.arc; 9 II Son the decl. arc; and determine
		a meridian with the solar, at the cor. of Tps. 23 and 24.5. Rgs 15 and 16 E.
	, .	Thence we run
		South on a true line, bet secs. 1 and 6.
١	10.00	Telephone line, NE and SW.
	10.50	Gulch, 30 lks. wide, course S. 25, T.
	32:50	Gulch. 50 lks. wide, course S. 25 W.
	34.00 40.00	Ascend.  Set a granite stone, 24 x 8 x 5 ins., 18 ins. in the ground, for \(\frac{1}{2}\) sec. cor., marked \(\frac{1}{2}\) on \(\vec{W}\). face, from
		which An oak, 10 ins. in diam. brs. S. 39 E., 33 lks. dist., marked 1 S 6 B T.
		An cak, 10 ins. in diam. brs. N. 74 W., 128 lks. dist.,
	64.00	marked 1 S 1 B T. Mountain ridge brs. NE and SW.
	04.00	Descend very abruptly.
	70.00	Gulch, 40 lks: wide, course SW.
		Ascend very abruptly.
	80.00	Set a granite stone, 16 x 8 x 5 ins., 12 ins. in the ground, for cor. of secs. 1.6.7 and 12, marked with 5 notches on S. and 1 notch on N. edge; from which
		An oak. 8 ins. in diam. brs. N. 17 E., 25 lks. dist.,
		marked T 24 S R 16 E S 6 B T. An oak, 12 ins. in diam. brs. S, 8 E., 90 lks. dist.,
		marked T 24 S R 16 E S 7 B T.
		An oak, 12 ins. in diam. brs. S 61° W., 105 lks. dist.
	· \	morked T 24 S R 15 E S 12 B T.
	12.7	An oak, 16 ins. in diam. brs. N. \(\frac{1}{2}\) W. 155 lks. dist., marked T 24 S R 15 E S 1 B T.
		Land, mountainous.
		Soil, 3rd rate.
		Timber, oak. Mountainous land, exceptionally difficult to survey,
		80.00 chs.
	·	
		South on a true line, bet. secs. 7 and 12.  Over mountainous land.
		Ascend along W. slope of high monntain,
	10.00	Descend.
	25.00	Gulch, 10 lks. wide. course W.
		Ascent very steep.
	34.00	Ridge brs. NE and SW.
		Descent very steep.
	40.00	Set a granite stone, 16 x 8 x 6 ins., 12 ins. in the ground, for \( \frac{1}{2} \) sec. cor., marked \( \frac{1}{2} \) on \( \text{W} \) face, and
		raise a mound of stone $3\frac{1}{2}$ ft. base, 2 ft. high, W
	,	of cor. Pits impracticable.
	43.00	Gulch. 1 to 1ks. wide, course S. 60 W.
		Ascend very steep mountain.
	49.00	Ridge brs. NE and SW.
	47 50	Descend very steep ridge.
	63.50	Gulch. 20 lks. wide, course S. 60 W. Ascend very steep mountain.
		APP O OFFICE A OWN IN A OWN AND AND AND AND AND AND AND AND AND AN
	72.00	Mountain ridge brs. E and W.
		Descent very steep.
	80.00	Set a granite stone, 18 x 10 x 6 ins., 12 ins. in the
		ground, for cor. of secs. 7.12.13 and 18, marked with 4 notches on S. and 2 notches on N. edge, from
		with a matches on 8. Sho 2 noiches on N. Cowe. Itom
		which

Chains	An oak, 18 ins. bradiam. brs. S. $26\frac{1}{2}$ W., 112 lks. dist. marked T 24 S R 15 E S13 B T. No other trees available; raise a mound of stone $3\frac{1}{2}$ ft. base, 2ft. high, W. of cor. Pits impracticable.  Land, mountainous.  Soil, 3rd rate.  Timber, oak.  Mountainous land, exceptionally difficult to survey, 80.00 chs.
	South on a true line. bet. secs. 13 and 18. Over mountainous land. Descend.
.40	Head of gulch, course W.
4.00	Ascend.
4.00	Ridge, slopes W. Descend.
7.00	· Gulch, 10 lks. wide, course W.
1.00	Ascend mountain.
20.00	Top of ascent, on E. slope of mountain.
2.000	Descend abruptly.
32.60	Gulch. 40 lks. wide, course W., running water, 3 chs.
	E of line.
	Ascend.
40.00	On W. slope of mountain.
	Set a granite stone, 20 x 10 x 6 ins., 15 ins.in the ground, for ½ sec. cor., marked ½ on W. face; and raise a mound of stone 3½ ft. base. 2ft. high, W. of cor. Pits impracticable.  Descend;
43.25	Gulch, 20 lks. wide, course NW.
20.00	Ascend very steep mountain.
47.00	Gulch, 20 lks. wide, course N. 60 W.
	Ascend abruptly.
59.00	Top of mountain.
	Descent very steep.
68.50	Gulch. 25 lks. wide, course W.
	Ascent very steep. Wire fence brs. E and W.
81.12	Top of mountain. brs. I and W.
81.40	Descend.
82.40	Intersect International Bdy. line, at 68.92 chs. W.
G12/4-30	of Int. BDy. monument No. 115, which is an iron
	monument, firmly set, marked and witnessed, as
	described by the surveyor general.
	Set a granite stone, 30 x 12 x 8 ins., 15 ins. in the
	ground, for closing cor. of T 24 S., Res. 15 and 16 E.
	marked, C C with 3 grooves on N. face; M E X. on S.
	face; and raise a mound of stone, 4ft. base, 2ft. high, N. of cor. Pits impracticable.
	Land, mountainous.
	Soil, 3rd and 4th rate.
	Timber, scattering oak.
	Mountainous land, exceptionally difficult to survey,
	82.40 chs.
	Connecting line, October 17, 1908.
1	

64

#### General Discription.

The land along the western part of the north boundary is level and rolling, with some good agricultural land which may be watered from the Santa Cruz river. the eastern part of the north boundary and the east boundary, is very mountainous, and the soil is rocky. There is oak, mesquite, willow and walnut timber along the north boundary, with oak, and mesquite along the east boundary. There is no water east of the Santa Cruz river.

Deputy Surveyore:

Wickenburg, Arizona; December 30, 1908.

Latitudes, departures and closing errors. Line True Latitudes. Departures. bearing, Distance, designated N. Chs. Chs. Chs. Chs Chs. N. Bdy. 479.12 479.12 East, E. Bdy.
S. Bdy.
W. Bdy. 242.40 242.40 South, 1183440 West, N. 6 20 W. 183.40 193.61 192.43 21.36 S.83 40'W. S. Bdy. 274.58 276.27 30.47 North, W. Bdy. 79.00 79.00 Convergency, . 22 271.43 2272.87 479.34

Error in latitude,,,, Departures balance.

### FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

9 65

LIST OF NAMES.	
A list of the names of the individuals employed byacobe Year	rry
, United States Deputy Surveyor, to assist in runnir	g, measuring, and
narking the lines and corners described in the foregoing field notes of the survey of	//
	7
	<u> </u>
howing the respective capacities in which they acted:	
Jim Atellia	, Chainman.
Harry A Cale	, Chainman.
Thomas Jacobs	
£ 1 6, Roll	, Moundman.
Fred C, Roberts	$\dots$ , $Axman$ .
	$\dots$ , $Axman$ .
	$\dots$ , $Flagman$ .
FINAL OATH OF ASSISTANTS.	, •
	<b>.</b>
United States Deputy Surveye	
hose parts or portions of the North and East foundary	es of
O. 245- P. 15 E.	
of	
Solf Rur Base and meridian, Strittery of Wigner, whi	-
n the foregoing field notes as having been surveyed by him and under his direction; an	
has been in all respects, to the best of our knowledge and belief, well and faithfully	•
corner monuments established, according to the instructions furnished by the Unite	1 States Surveyor
deneral for Christiana	
Jan, A, Kellis,	, Chainman.
Manuel A. Cale	, Chainman.
Thomas Jacobs	
2218 Cappit	·
of sorry	, Axman.
·	, Axman.
	$\dots$ , $Flagman$ .
)	
Subscribed and sworn to before me this	1 -
day of Closer, 190 () ) Janeis (2)	
INDERDOM //	acthe
My commission expires September 20, 1931	Ty Mille

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### FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

Solemnly swear that, in pursuance of a contract received from Theory Dearing date of the United States Surveyor General for the Dearing date of the United States Surveyor deneral of Surveying Instructions, and the laws of the United States surveyor date of the Dearing date of the Deari	I, Francis Popasobe	
United States Surveyor Genéral for the Manual of Surveying Instructions, and the laws of the United States Surveyor General for the Manual of Surveying Instructions, and the laws of the United States surveyed all those parts or portions of the Manual of Surveying Instructions, and the laws of the United States surveyed all those parts or portions of the United States Surveyor 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 the district and in the special written instructions of the United States Surveyor General for the original field notes of such survey.  Subscribed by said for the survey of th	solemnly swear that, in pursuance of a contract rec	ceived from Frank S. Ingales
proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for the Manual of Surveying Instructions, and the laws of the United States surveyed all those parts or portions of the United States surveyed all those parts or portions of the United States surveyed by the part of the January of the Januar	United States Surveyor General for Cray	bearing date of the
General for Annual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of Annual of Surveying Instructions of Surveying Instructions of the United States and Annual of Surveying field notes as having been surveyed by Une, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey.  Subscribed by said, January Barretions, and sworn to before me this I have been examined and surveying Instructions of the United States Deputy Surveyor.  Subscribed by said, January Barretion, and sworn to before me this I have been examined by I have been examined and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.  Annual Annual Medican Surveyor General.  June States Surveyor General.	/	
United States, surveyed all those parts or portions of the state of th		
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of thousand and flutz.  Dade and meridian, in the little of living and which are represented in the foregoing field notes as having been surveyed by the, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey.  Subscribed by said fraction for the survey of the said field notes of the Surveyor.  Subscribed by said fraction for the survey of the survey of the surveyor General.  APPROVAL June 1	Planyr 15 Ceast	
Montane and meridian, in the Mariettery of Management, which are represented in the foregoing field notes as having been surveyed by the, 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 Manual of Surveying Instructions, and the specific manner described in the field notes, and that the foregoing are the original field notes of such survey.  Subscribed by said Angelia and Surveyor.  APPROVAL Manual Angelia  OFFICE OF THE UNITED STATES SURVEYOR GENERAL,  The foregoing field notes of the survey of the Angelia and Surveyor.  The foregoing field notes of the survey of the Angelia and Surveyor.  Executed by Manual Angelia and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.  I certify that the foregoing transcript of the field notes of the above-described surveys in		
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General for Angelia and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey.    Subscribed by said   Surveyor   Subscribed by	•	
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