JCT.3-1910 27

Dook C

FIELD NOTES

OF THE SURVEY OF THE

2241	
In South and West Boundaries of	
0710/2 N R15E.	
the West Boundary of	
J 10 N- P, 15 E.	
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0044	······
2241	
of the Land S-R-Base . Meridian,	
Territory of arizona	
AS SURVEYED BY	. '
Francis Buckas - Quacks Hurry United States Depu	ty Surveyors
Survey commenced Muyust T	
- Survey completed august / 8	, 19ØO

BCCK 2241 NAMES AND DUTIES OF ASSISTAN	ITS.
James a Killis	Chairman
Robert S. Deured	//
Robert S. Deured John Childress	agenan.
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8	19					
B	<i>30</i>	IN	DEX I	BOOK 224 DIAGR		
7	J) Tou	nship 16	1/2 M	, Range	/5 T	8
	9	9	10	10	// \	
5	6	5	4	3	2	101/8/
4	7	8	9	10	11	eser,
4	18		16 (O. M -	15	14	13
3	19	20	21	22	28	7 24 7 24
2	30	29	28	27	26	10 25
2	81	32	83	34	35	36

Meanders Page.....

PRELIMINARY OATHS OF ASSISTANTS. BOOK 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 Subscribed and sworn to before me this My commission expires Sept WE,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 us, to the best of our skill and ability, in the survey of $oxed{District}$, $oxed{Moundman}$. Subscribed and sworn to before me this _____) ess and swear that we will well and truly perform the duties of axmen in the establishment of corners and other duties, according to instructions given to the best of the skill and ability, in the survey of ndaries of @ 10/2/1-Subscribed and sworn to before me this... My commission expites , 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 Subscribed and sworn to before me this day of _____

Survey commenced August 7, 1910; and executed with Gurley light Mountain Transit, with Burtt Solar attachment. 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.

I examine the adjustments of the transit, and correct the level and colimation errors; then, to test the solar agratus, by comparing its indications, resulting from solar observations made during a.m. and p.m. hours, with a meridian determined by observation on Polaris, I proceed as follows:

At my camp in the NW.1/4 of Sec.34, T.10 1/2 N., R. 15 E., on the west bank of Canyon Creek,; latitude 34° 15 N. (observed) longitude 110° 46 46 W; We; I set off 16° 30' Non the decl. arc; 34° 15' Non the Mat. arc; and at 4h. Om p.m., l.m. t. determine with the solar a meridian and mark a point thereof, on a blazed tree 5 chs.N.of my transit point.

At 10h 28m p.m., I observe Polaris at eastern 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.of my station.

August 7. 1910.

August 8, cloudy, unable to get the Sun. At 10h24m,pm. I repeat my observation on Polaris at eastern elongation and check my result of the previous August 8, 1910. night.

August 9: At 7 a.m., 1.m. t., I lay off the azimuth of Polaris, 1° 25' to the west, and mark the meridian thus determined, by driving a tack in the blaze on which the solar meridian of August 7, was marked, the meridian falls 0.2 inches west of the mark determined by the

At 7h 30m, a.m., l.m.t., I set off 34 15 Noon the lat. arc, 16°02'Non the decl arc; and mark a point in the meridian determined with the solar, which coensides with the meridian established by observation on Polaris, thus indicating that the adjustments of the instrument are satisfactory.

The magnetic bearing of the true meridian, at 8h a.m. is N.14° 50'W.; the aggle thus determined gives the magnetic declination 14°50'E. No further work to-day on account of rain.

August 9, 1910.

2,

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Chains.
          August 10: at 1 h Om p.m. 1.m.t., I set off 34° 10'N.on
        the lat. arc; 15° 40 Non the decl. arc and determine a
        meridian with the solar at the cor. of Tps.9 and 10-N.,
        Rs. 14 and 15 E., which is a stone marked set and witnessed
        as described by the Surveyor General.
         . Thence I run
        North, bet. secs. 31 and 36.
          Over recky, mountainous land, through heavy timber:
30.00
        Descend.
        " very abruptly.
35.00
        Bottom of canon, 100 feet deep, course W.
38.65
        Ascend very abruptly.
        Set a sandstone, 24x12x6 ins. 18 ins.in the ground, for
40:00
        1/4 sec. cor., marked 1/4 on W.face, from which
          an Oak 10 ins.in diam. bears S.50° E. 33 lks.dist.
       marked 1/4 S 31 B T .
         An Oak 10 ins.diam., bears N.9 30 W. 16 lks.dist.
       marked 1/4 S 36 B T .
       Top of canon wall. Ascend gradually.
41.00
74.00 Descend along W. slope.
80.00
       Set a sandstone, 20x8x5 ins., 15 ins. in the ground, for
        cor. of secs. 25, 30, 31 and 36, marked with 1 notch on S.
        and 5 notches on N; edge,
                                         from which
         A Pine 30 ins.diam., bears N.56°15'E., 109 lks.dist.
       marked T.10 N., R.15 E. S 30 B T
         A Pine 24 ins.diam., beras S.44° E. 66 lks.dist.,
       marked T 10 N R 15 E S 31 B T
         An Oak, 12 ins.diam., bears S.63 W. 20 lks. dist.
       marked T 10 N R 14 E S 36 B T
         A Pine 24 ins.diam., bears N.36° W. 89 lks. dist.,
       marked T 10 N R 14 E S 25 B T .
         Land mountainous.
          Soil rocky, 3d and 4th rate.
         Timber Pine, oak and cedar. undergrowth the same.
         Mountainous land and land covered with heavy timber and
       dense undergrowth, exceptionally difficult to survey,
                                                  ~80.00
                            -August-10, 1910.
               August 11: At 9h,a.m.,1.m.t., I set off 3410!N.on the
       lat.arc; 15025'N' on the decl.arc, and determine a meridian
       with the solar, and run
         North bet. secs. 25 and 30.
         Over very mountainous land, through heavy timber.
       Descend.
15.40
       Top of canon wall bears E. and W. and is impassable.
15.70
       I set a flag on line and proceed around to N. side of candn.
       from a point on line N side of canon, I measure base line east 2.60 to a point from which the flag bears
       S.8.07117. Which gives for the distance from the flag to
       point on N. side of canon; 2.60 or 2.60 +14262=18.23 tan.8°7'
        chs. dist from flag across the canon + 15.70 =
        Top of canon wall, the canon is 500 feet deep, course W.
33.93
        Ascend.
       Set a malpais stone 18x10x6 ins.,12 ins.in the ground,
40.00
       for 1/4 sec. cor., marked 1/4 on w.face, raise a mound of
       stone 3 ft.base 3 ft.high W.of cor. pits impracticable.
43.00
       Descend along E.bluff of canon.
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August 11, 1910.

33.93 E.7.6

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mains.
 71.00 Bottom of canon, 400 ft. deep, course SW.
        Ascend abruptly.
        Set a schist stone 18x10x5 ins.,12 ins.in the ground, for
 80.00
        cor. of secs. 19, 24, 25 and 30, marked with 2 notches on
        S. and 4 notches on N. edge, and raise a mound of stone,
        3 ft.base, 2 ft. high, W.of cor. pits impracticable.
          Land very mountainous.
          Soil 4th rate.
          Timber pine and Oak, undergrowth oak and pine.
          Mountainous land, covered with dense undergrowth,
                                                  . 80.00 chs
        exceptionally difficult to survey,
          August 12; At 2h P.m., l.m.t., I set off 34°11'Non the
        latearc: 15°4'Non the decl. are and detrrmine a meridian
        with the solar and run
          North, bot. secs. 19 and 24.
          Over very mountainous land. through heavy timber.
        Ascend abruptly.
  5.00
        Ridge, bears SE. and NW.
        Descend.
         abruptly.
  7.50
        Line becomes impracticable, I set a flag on line for
  8.50
        purpose of triangulating from high mountain ridge ahead.
          August 12, 1910. from a point on ridge north of flag I measure a base
42.84
       line west 3.73 chs, (could get no longer base on account
       of rough ground) to a point from which the flag bears
       S.6012'E. ... which gives for the distance from the flag
       to point on the ridge
                                  3.73 or 3.73 \div .10863 =
                               tan.6° 12'
8.50
       34.34 \text{ chs.} + 8.50 \text{ chs.} = 42.84 \text{ chs.} to point on ridge.
40.00
       the cor.point falls at inaccessable point.
       Top of rock bluff bears E.and W.
42.60
         Set granite stone 30x10x6 ins.12 ins.in ground to bed-
        rock, surrounded by mound of stone, for witness 1/4 sec.
        cor., marked W C 1/4 on W.face, from which
         A Pine 18 ins.diam. bears S.89°30'E. 51 lks. dist.
            marked W C 1/4 S 19 B T
         A Cedar 24 ins. diam.bears S.43°30'W. 12 lks.dist.
       marked W C 1/4 S 24 B T ...
45.00
       Descend.
       Gulch, 30 lks. wide, course S. 15 E.
60.00
        Ascend.
80.00
       Set a granite stone, 24x10x4 ins., 18 ins.in the ground,
       for cor. of secs. 13, 18, 19 and 24, marked with 3 notches
       on N.and S.edges, from which
         A Pine 30 ins.diam., bears N.26° E., 52 lks.dist.,
       marked T 10 N R 15 E S 18 B T .
         A Pine 30 ins.diam., bears S.28° 30'E.,60 lks.dist.,
       marked T 10 N R 15 E S 19 B T
         A Pine 24 ins.diam., bears S.43°15'W., 68 lks.dist.,
       marked T 10 N R 14 E S 24 B T.
         An Oak 15 ins.diam., bears N.62° W., 188 lks.dist.,
       marked T 10 N R 14 E S 13 B T.
         Land very mountainous.
         Soil rocky 4th rate.
         Timber pine, oak and cedar, undergrowth oak, pine, cedar,
         Mountainous land, covered with heavy timber and dense
        undergrowth, exceptionally difficult to survey,
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August 13; At 2h,p.m., I set off 34° 12'Non the lat.arc; $14^{\circ}45\frac{1}{2}$ 'N: the decl.arc, and determine a meridian with the solar, and run

North, bet. secs. 13 and 18. Over mountainous land, through heavy timber. Ascend.

16.00 Descend.

BOOK 2241

21.50 Same gulch, 25 1ks. wide, course S.10° W.

22.50 Ascend.

40.00 Set a Sandstone 20x12x5 ins.,15 ins.in the ground, for 1/4 sec.cor., marked 1/4 on W.face, from which An Oak 12 ins.diam., bears N.78°15'E.,56 lks.dist., marked 1/4 S 18 B T.

A Pine 30 ins.diam., bears N.66° 30'W., 57 lks.dist., marked 1/4 S 13 B T.

55.00 Main mountain ridge, bears E.and W.

56.00 Descend.

80.00

60.09 " very abruptly.

Set a sandstone, 20x10x6 ins.15 ins.in the ground, for ser of secs.7, 12, 13 and 18, marked with 4 notches on S., and 2 notches on N. edge, from which

A Pine 16 ins.diam., bears N. 46° 30'E., 53 lks.dist., marked T 10 N R 15 E S 7 B T.

A Pine 14 ins.diam., bears S.59° 30'E., 33 lks.dist., marked T 10 N R 15 E S 18 B T.

A Pine lo ins.diam., bears S. 8° 30'W.,24 lks.dist., marked T.10 N R 14 E S 13 B T.

A Pine 12 ins.diam., bears N. 2°30'W., 14 lks.dist., marked T 10 N R 14 E S 12 B T.

Land very-mountainous.

Soil rocky, 3d and 4th rate.

Timber pine, oak and cedar, undergrowth the same.

Mountainous land, covere d with heavy timber and dense undergrowth, exceptionall y difficult to survey, 80.00 Cas.

August 13, 1910.

August 14; I test the solar apparatus of my transit on the meridian established, August 7-8, by observation on Polaris, as follows:

At 9h 30m, a.m., l.m.t., I set off 34°15'N. the lat. arc; 14°31 % on the decl.arc, and determine a meridian with the solar.

At 2h 30m,p.m.,l.m.t., I set off 3415'N.on the lat.arc; 14027'N.on the declarc, and determine a meridian with the solar;

Both of the above s olar meridians coencide with the meridian established by o bservation on Polaris, indicating the the adjustments of the instrument are satisfactory.

For these observati ons my transit was set up over the peg marking the sout hend of the Polaris meridian.

August 14, 1910.

August 15; At 8h 40m,a.m.,l.m.t., I set off 34° 13'N. on the lat.arc; 14° 13'N on the decl.arc, and determine a meridian with the solar, and run

North, bet. secs. 7 and 12.

Over mountainous land, through heavy timber.

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Chains.
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Descend.

14.50 Nagle Canon, 50 1ks.wide, course S.60° W.

15.50 Ascend abruptly.

32.00 Descend.

40.00 Set a granite stone 18x10x6 ins., 12 ins. in the ground, for 1/4 sec.cor., marked 1/4 on W.face, from which A Pine 6 ins.diam., bears N.22°E., 27 lks.dist.,

marked 1/4 S 7 B T.

An Oak 12 ins.in diam., bears S.13°W.,63 lks.dist., marked 1/4 S 12 B T.

43.00 Ascend.

51.00 Ridge, bears E. and W. Descend.

60.00 Gulch 10 1ks.wide, course SW. Ascend steep.

80.00 Set a sandstone 20x10x7 ins., 15 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 24 ins.diam., bears N.79° E. 45 lks.dist.,

marked T 10 N R 15 E S 6 B T

An Oak 20 ins.diam, boars S.70° 30'E. 87 lks. dist.

marked T 10 N R 15 E S 7 B T.

A Pine 30 ins.diam., bears S. 7° W., 98 lks.dist.,

marked T 10 N R 14 E S 12 B T

An Oak 12 ins. diam., bears N.29 W. Wilks. dist.

marked T 10 N R 14 E S 1 B T.

Land very mountainous.

Soil rocky, 3d and 4th rate.

Timber pine, oak and cedar, undregrowth the same.

Mountainous land, covered with heavy timber and dense undergrowth, exceptionally difficult to survey, 80.00 chs

August 15; At the above corner, I set off 14 10 N. on the decl.arc, and observe the Sun at noon on the meridian, the resulting latitude is 34° 14'N.

North, bet. secs. 1 and 6. Over very mountainous land, through heavy timber. Ascend.

12.50 Ridge, bears SE. and W. Descend.

24.00 Low pass where two gulches head running SE.and SW.

26.00 Ascend.

40.00 Set a lime stone 20x12x8 ins.,15 ins.in the ground, for 1/4 sec.cor.,marked 1/4 on W.face, from which A Pine 30 ins.diam.,bears S.52°30'E. 92 lks.dist. marked 1/4 S 6 B T.

An Oak 12 ins.diam., bears S.37°30'W. 28 lks.dist., marked 1/4 S 1 B T.

80.00 Ridge bears E. and W.

Set a sandstone 20x14x10 ins.,15 ins.in the ground, for cor. of Eps.10 and 10 1/2 N.,Rs.14 and 15 E., marked with 6 notches on each edge, from which _A Pine 15 ins.in diam., bears N.55°E. 73 lks.dist., marked T 10 1/2 N R 15 E S 31 B T.

A Pine 15 ins.in diam., bears S.80° 30'E. 27 lks.dist., marked T 10 N R 15 E S 6 B T.

An Oak 24 ins.diam., bears S.15 W. 19 lks.dist., marked T 10 N R 14 E S 1 B T .

A Pine 6 ins.diam. bears N.15° 30'W. 30 lks.dist., marked T.10 1/2 N R 14 E S 36 B T .

Land very mountainous.

Soil 3d rate.

Timber pine, oak and cedar.

Mountainous land, cevered with heavy timber and dense undergrowth, exceptionally difficult to survey, 80.00 chs. August 15, 1910.

GENERAL DESCRIPTION.

This boundary line passes over an exceedingly mountainous country, covered with a heavy growth of merchantable pine timber, intersperced with oak and ceedar, in places the undergrowth of pine and oak is very dense.

The adjacent lands grow a fair crop of grass and

are used for stock grazing.

We encountered no permanent water on the line. The altitude along the line ranges from 6000 feet to 7500 feet.

U.S. Deputy Surveyor

sedds

Wickenburg, Arizona, September 16, 1910.

Survey commenced August 16, 1910; And executed with a Gurley Light Mountain Transit, described in the notes of the survey of the W.bdy.of T.10 N., R.15 E., filed herewith.

August 16; At 8h 20m.a.m., l.m.t., I set off 34° 15° N on the lat.arc; 13°54½ N.on the decl.arc, and determine a meridian with the solar, at the cor.of Tps.10 and 10 1/2 N., Rs.14 and 15 E. recently established by meand run thence

North, bet. secs. 31 and 36.

Over mountainous land, through heavy timber.

3.00 Descend.

5.00 " very abruptly.

16.40 Bottom of canon, 300 feet deep, course E. Ascend steep mountain.

35.00 Ridge, bears E. and W.

36.50 Descend very steep.

40.00. Set a malpais stone 20x10x6 ins.,15 ins.in the ground, for 1/4 sec.cor., marked 1/4 on W.face, from which A Pine 24 ins.diam., bears N.48 E.,53 lks.dist., marked 1/4 S 31 B T.

A Pine 24 ins. diam, bears S.18 W. 14 lks. dist., marked 1/4 S 36 B T.

54.80 Bottom of canon, 300 feet deep, course N.60° W. Ascend.

65.00 Ascend over bluffs.

74.00 Ridge, bears E. Descend.

80.00 Set a limestone 20x12x5 ins.,15 ins.in the ground, for cor.of secs.25, 30, 31 and 36, marked with 1 notch on S.and 5 notches on N.edge, from which

A Maple 12 ins.diam., bears N.13° E., 5 1ks.dist.,

marked T 10 1/2 N R 15 E S 30 B T.

An Oak 8 ins.diam., bears S. 80° E. 71 lks.dist., marked T 10 1/2 N R 15 E S 31 B T.

An Oak 10 ins.diam., bears s.68° 30'W. 78 lks.dist.,

marked T 10 1/2 N R 14 E S 36 B T .
A Maple 10 ins.diam., bears N.12° W. 4 lks.dist.,

marked 2 10 1/2 N R 14 E S 25 B T.

Land very mountainous.

Soil rocky, 4th rate.

Timber many varieties of pine, oak, walnut, cedar and maple and locust. undergrowt h the same.

Mountainous land, covered with heavy timber and dense undergrowth, exceptionally difficult to survey, 80.00 chs.

North, bet secs. 25 and 30.

Over very mountainous land, through heavy timber. Descend abruptly.

3.00 Gulch, 25 lks.wide, course W. Ascend very steep ridge.

5:00 Ridge, bears E and W.

Descend very steep.

19.75 GGordon Canon course S.60° W.

Ascend Mogollon rim.

40.00 Set a sandstone 24x12x5 ins.,18 ins.in the ground, for 1/4 sec.cor.,marked 1/4 on W.face, from which An Oak 6 ins.diam.,bears S.89°30'E. 11 lks.dist., marked 1/4 S 30 B T.

West Boundary, T.10 1/2 N., R. 15 E.

Chai	ns ,
	A Pine 14 ins.diam., bears S.28° 30'W. 9 lks.dist.,
	marked 1/4 S 25 B T.
46.	
80.	
	for cor. of secs. 19, 24, 25 and 30, marked with 2 notches
	on S. and 4 notches on N, edge, from which
	A Pine 20 ins.diam., bears N.66 E. 9 lks.dist.,
	marked T 10 1/2 N R 15 E S 19 B T .
	A Pine 18 ins. dism., bears S.14°E. 32 lks.dist.,
	marked T 10 1/2 N R 15 E S 30 B T .
	A Pine 24 ins.diam, bears S.40° W. 62 lks.dist.,
	marked T 10 1/2 N R 14 E S 25 B T.
	A Pine 24 ins.diam., bears N. 65° W., 32 lks.dist.,
	marked T 10 1/2 N R 14 E S 24 B T .
	Land very mountainous.
	Soil 3d and 4th rate.
	rimber Pine, oak and cedar.
	Mountainous land, cevered with heavy timber and dense
	undergrowth, except onally difficult to survey, 80.00 chs.
	diaci gi ou mi jozoop v onich ny
	North, bet. secs. 19 and 24.
	1
_	Over mountainous land, through heavy timber.
5.	
	NW.
40.	
	1/4 sec. cor., marked 1/4 on W.face, from which
	A Pine 24 ins.diam., bears East 45 lks.dist.,
	marked 1/4 S 19 B T.
	A Pine 20 ins.diam., bears S.60° 30'W. 35 lks.dist.,
.	marked 1/4 S 24 B T .
66	N. M. w
	of secs.2, 3, 34 and 35, Which is an iron post with cap,
	set in mound of stone and earth, markedwith 6 notches on
	N.and S., 2 notches on E. and 4 notches on W., S 2 on SE and
	s 3 on Sw. sides. I destroy the markings on the post and
	bearing trees refrring to the sections on the S.
1	I Set a sandstone 24x12x8 ins.18 ins.in the ground, for
	closing core of secsel9 and 24, marked with 6 groves on
	E.and W. and C C and 3 groves on S.face, from which
	A Pine 18 ins.diam., bears S.70° 30'E. 62 lks.dist.,
	marked T 10 1/2 N R 15 E S 19 B T .
	A Pine 24 ins.diam., bears S.46° W. 35 lks.dist.,
	marked T 10 1/2 N R 14 E S 24 B T .
	Land rolling.
	Soil rocky, 3d rate.
	Timber pine and oak, undergrowth the same.
	Land covered with heavy timber, exceptionally difficult
	to survey, 66.14 chs.
	Connecting line the same, 4.55 chs.
	August 16, 1910.
1	

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Chains.
               August 17; At 8h 15m, a.m., l.m.t., I set off 34° 15'
       N on the latearc, 13°36'Non the decl. arc, and determine
          a meridian with the solar, at the cor. of 10 and 10 1/2
         N., Rs.14 and 15 E., recently established by me,
          and run thence
        East, bet. secs. 6 and 31.
        Over-mountainous land, through heavy timber.
22.00
       Descend steep mountain.
40.00
          Set a sandstone 20x6x6 ins.,15 ins.in the ground, for
        1/4 sec. cor., marked 1/4 on N.face, from which
         An Oak 8 ins. diam., bears N.25°E. 3 lks. dist.,
       marked 1/4 S 31 B T.
         An Oak 12 ins. diam., bears .. S. 30° E. 3 lks. dist.,
       marked 1/4 S 6 B T .
       Bottom of canon 40 lks.wide, course S.
56.20
       Ascend steep mountain.
74.00
       Descend.
79:70
       Gulch, 15 lks.wide, course S.
80.00
         Set a granite stone 20x10x6 ins.,15 ins.in the ground,
       for cor. of secs. 5, 6, 31 and 32, marked with 5 notches
       on E. and 1 notch on W. edge, from which
         A Pine 36 ins. diam., bears. N. 78° 30'E. 38 lks. dist.,
       marked T 10 1/2 N R 15 E S 32 B T .

An Oak 12 ins. diam., bears S.34° 30'E. 23 lks. dist.,
       marked T 10 N R 15-E S 5 B T .
         A Pine 12 ins. diam., bears S. 80° E. 41 lks. dist.,
       marked T 10 N R 15 E S 6 B T .
        A Pine 20 ins. dism., bears N. 14° W. 45 lks. dist.,
       marked T 10 1/2 N R 15 E S 31 B T.
         Land mountainous.
         Soil rocky, 3d and 4th rate.
         Timber pine and oak, undergrowth the same.
         Mountainous land, covered with heavy timber and dense
        undergrowth, exceptionally difficult to survey,
         East, bet. secs. 5 and 32.
       Over mountainous land, through heavy timber.
       Ascend steep mountain.
       Ridge, bears N. and S.
୍ 8•00
       Descend abruptly.
       Gulch, 20 1ks.wide, course S.
20.00
       Ascend steem ridge.
       Ridge and road from Hollbrook via Heber to pleasant Valley
29.75
       bears SE. and NW.
       Descend steep mountain.
       Set a sandstone 24x12x8 ins.18 ins.in the ground, for 1/4
40.00
                                           from which
       sec. cor., marked 1/4 on N. face,
         A Pine 24 ins.diam., boars N. 48° E. 21 lks.dist.,
       marked 1/4 S 32 B T.
         A Pine 16 ins.diam., bears S.43°15'W. 17 lks.dist.,
       marked 1/4 S-5 B T .
       Gulch 20 lks.wide, cour se M.70° E.
50.50
       Descend along S. side of canon.
80.00
         Set a granite stone 20x10x6 ins., 15 ins.in the ground,
       for cor. of secs. 4, 5, 32 and 33, marked with 4 notches
       on E.and 2 notches on W.edge, -
                                          from which
         A Pine 15 ins.diam., bears N.36° E. 22 lks.dist.,
       marked T 10 1/2 N R 15 E S 33 B T
         A Pine 10 ins.diam, bears S.47°30'E. 30 lks.dist.,
       marked T 10 N R 15 E S 4 B T .
```

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Chains.

A Pine 12 ins.diam., bears S.23° 30° W.103 lks.dist.,
marked T 10 N R 15 E S 5° B T
A Pine 15 ins.diam., bears N.48° W. 104 lks.dist.,
marked T 10 1/2 N R 15 E S.32 B T
Land mountainous.
Soil rocky, 4th rate.
Timber Pine and oak, undergrowth the same.
Mountainous land, covered with heavy timber and dense

undergrowth, exceptionally difficult to survey, 80.00 chs.

August 17, 1910.

August 18; At 8h a.m., l.m.t., I set off 34° 15'N.on the lat.arc; 13° 17'Non the decl.arc, and determine a meridian with the solar, and run
East, bet. secs. 4 and 33.

Over mountainous land, through heavy timber.

Descend along S. side of canon.

40.00 Set a limestone 20x10x5 ins.,15 ins.in the ground, for 1/4 sec. cor., marked 1/4 on N.face, from which A Pine 18 ins.diam., bears S.20°E. 34 lks.dist., marked 1/4 S 4 B T.

A Pine 16 ins.diam., bears N.25° W. 18 lks.dist., mark d 1/4 S 33 B T.

80.00 Set a sandstone 20x10x6 ins.,15 ins.in the ground, for cor.of secs.3, 4, 33 and 34, marked with 3 notches on E. and W.edges, from which

A Pine 30 ins.diam., bears N. F. 83 lks.dist., marked T 10 1/2 N R 15 E S 34 B T.

A Pine 18 ins.diam., bears S.31° E. 120 lks.dist., marked T 10 N R 15 E S 3 B T.

A Rine 18 ins.diam., bears $5.58^{\circ}45^{\circ}W$. 62 lks.dist., marked T 10 N R 15 E S 4 B T .

A Pine 30 ins.diam., bears N.78° W. 79 lks.dist., marked T 10 1/2 N R 15 E S 33 B T .

Land mountainous.

Soil 3d rate.

Timber pine and oak, undergrowth the same.

Mountainous land, covered with heavy timber and dense

undergrowth, exceptionally difficult to survey, 80.00 Class

East, bet. secs. 3 and 34.

Over mountainous land, through heavy timber. Descend steep hill.

2.80 Roam, Canyon Creek to Pleasant Valley, bears NE. and SW. 7.25 Gulch, 25 lks.wide, course N.25°E.

Ascend abruptly.

39.00 Bescend.

40.00 Set a sandstone 24x8x6 ins., 18 ins.in the ground, for 1/4 sec.cor., marked 1/4 on N.face, from which An Oak 12 ins.diam., bears/23°30'E. 52 lks.dist., marked 1/4 S 34 B T.

An Oak 10 ins.diam., bears S.67° 30'W. 35 lks.dist., marked 1/4 S 3 B T .

51.40 Canyon Creek 50 lks.wide, course S.20° E.

58.00 Ascend steep bluff., bears N. and S.

65.00 Ridge, slopes SW. Descend.

76.50 Spring Gulch, 10 lks. wide, course SWl Ascend steep mountain.

Chains. 80.00

Set a limestone 18x8x5 ins.,12 ins.in the ground for cor.of secs. 2, 3, 34 and 35, marked with 2 notches on E. and 4 notches on W.edge, from which

A Pine 10 ins.diam., bears N.39 E. 79 lks.dist.,

marked T 10 1/2 N R 15 E S 35 B T .

A Pine 18 ins.diam., bears S.6°E. 28 lks.dist.,

marked T 10 N R 15 E S 2 B T .

A Pine 14 ins.diam., bears S.25° W. 36 lks.dist.,

marked T 10 N R 15 E S 3 B T.

A Pine 24 ins.diam., bears N.81° W. 63 lks.dist.,

marked T 10 1/2 N R 15 E S 34 B T .

Land mountainous.

Soil 2"and 3"rate.

Timber pine and oak,

Mountainous land, covered with heavy timber, exceptionally-difficult to survey, 80.00 chs.

East, bet. secs. 2 and 35.

Over mountainous land, through heavy timber. Ascend

7.24

Intersect W.bdy.Fort Apache Indian Reserve, 12.91 chs.
S. of 3½mile stone, mkd.and wit. as desc.by the Sur.Genl.
I set a limestone 20x10x8 ins.,15 ins.in the ground
for closing cor.of secs. 2 and 35, marked C C on W.
F A I R on E. with 6 groves on S. face, from which

An Oak 30 ins.diam., bears S.21° W. 121 lks.dist.,

marked T 10 N R 15 E S 2 B T .

A Pine 30 ins.diam., bears N.34° W., 126 lks.dist., marked T 10 1/2 N R 15 E S 35 B T .

Land mountainous.

Soil 3d rate,

Timber pine and oak.

Mountainous land, covered with heavy timber, exceptionally difficult to survey, 7.24 chs.

August 18, 1910.

GENERAL DESCRIPTION.

The lands traversed by the south and west boundary of this fractional township, is mountainous and rocky, is covered with a fair growth of pine and oak timber.

There is abundance of water in Canyon creek the year around.

Fancus Decker U.S. Deputy Surveyor.

Wickenburg, Arizona, September 17, 1910.

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Latitudes, departures, and closing errors.

				tudes,		artures
Line.	rue bearin	g.Distance	N.	S.	E.	W.
South bdy.	West	327.24	:	•		327.24
West bdy.	North,	226.14	226.14	•		
North bdy.	East,	328.00			328.00	
East bdy.	South,	227.84		227.84		
Converge	ency,				16	

226.14 227.84328.16 327.24

226.14

Error in latitude, Error in departure,

1.70327.24

•92

3)

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

	Land
A list of the names of the individuals employed by	4 Clurry
, United States Deputy Surveyor to assi	st in running, measuring, and
narking the lines and corners described in the foregoing field notes of the s	
boundaries of & 10/2 M. M. 13E. and N.	Jdy, fo) 10 N K/5 E
howing the respective capacities in which they acted:	
James a Kellis	, Chainman.
Robert S. Penrod	, Chainman.
	, Moundman.
	Moundman
John Childress	, mownaman,
Jano Chiennes	Axman.
	Axman.
	, Flagman.
FINAL OATH OF ASSISTANTS	
We hereby certify that we assisted Jacoba X Court	in charant
Travers Ducades United States Dans	
The contract of the contract o	ity Surveyor, in surveying all
and the W. Pay. of 10 n. 1815	10/2 M. K. 15 6
and the W. Value of 0/10 n. 1815	€.
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	of the Gila and
Paltition Buneridian, Fritony of Weigo	which are represented
the ferencing field notes as having hear supposed by him and and him is	which are represented
a the foregoing field notes as having been surveyed by him and under his d as been in all respects, to the best of our knowledge and belief, well and	-
orner monuments established, according to the instructions furnished by	•
	•
eneral for Curring	
eneral for Origona. James Afrillis.	, Chainman.
Robert L Penrod	
	, Moundman.
	7.5
John Childress,	Amman
	Amman
	, $Flagman.$
ubscribed and sworn to before me this.	<i>'</i> ~ <i>n</i>
day of Mycest, 1960 } Trace	es Backa
Mg neumilistan empires estat in 1971.	100
6-151	ary Mebles

SOOK FINAL OATH OF UNITED STATE	
	_
Thanks 12. Jacks	, United States Deputy Surveyor, do
solemnly swear that, in pursuance of a contract received f	
solemnly swear that, in pursuance of a contract received i	rom Jacobs -: Jacobs
United States Surveyor General for Surveyor	
20 day of March, 1908	, I have well, faithfully, and truly, in my own
proper person, and in strict conformity with the instruct	•
General for Change , the Manual	Surveying Instructions, and the laws of the
United States, surveyed all those parts or portions of	e Toundaries of
J10/2 n. R15 Ee and the	Mr. body, of of 104-1915 &
	of the Faud 5-16
Base and meridian, in the Lerretory of	human, which are represented in the
foregoing field notes as having been surveyed by me, and	' //
swear that all the corners of said survey have been established	
the Manual of Surveying Instructions, and the special writ	
General for Uryona and in the specif	ic manner described in the field notes, and that
the foregoing are the original field notes of such survey.	
	A.
	Touris Blacks
	United States Deputy Surveyor.
Subscribed by said Trucis 3, Jacobs and s	worn to before me)
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this day of Clothy, 19	
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United States Surveyor General.