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BOOK 2788

FEB. 13.1912

FIELD NOTES

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of the Agasal Priver Lyan Jand	Meridian,	
quisona		
AS SURVEYED	BY	
Wasen C Hern	, United States Deputy Survey	or,
Under his Contract No. 162, dated	Jan 5 , 19	<u>Ø0</u>
Survey commenced Lee 6	<u>, 19</u>	<u>Ø</u> [
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BOOK 2788

NAMES AND DUTIES OF ASSISTANTS.

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BOOK 2788 INDEX DIAGRAM.

Tow	nship	17/1	, Range_	12 E	
6	5	4	3	2	1 4
3	8	9	10	11	12 . 3
18	17 //	16	15	5 . 14	13 .3
19	20	21 //	Z/ 7 '22	28	24 3
30	29	28	27	26	25 Z
31	82	83	34	85	36

Meanders Page ______ Notes in this book

PRELIMINARY OATHS OF ASSISTANTS.

WE, Bol Johnson	and W. Schoonweer
do solemnly swear that we will well and faithfully exe	
chain upon even and uneven ground, and plumb the tall	
we will report the true distances to all notable objects	The state of the s
measuring, to the best of our skill and ability, and in ac	
Subdance on TITA/81	25
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	ob Manson, Chainman.
\mathcal{O}_{n}	Desansurour, Chainman.
Uh -	
Subscribed and sworn to before me this}	\mathcal{O}
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N. S.	16 St. Class Survey a
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de colombia sweet that we will will and toul month	and
do solemnly swear that we will well and truly perform of corners, according to the instructions given us, to	,
CD 1 magness of the contract o	and ability, in the survey of
_ welling /12/1/	
<u> </u>	n Jakkin Moundman.
1/	, Moundman.
Subscribed and sworn to before me this	
day of	(h) al
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SEAL W	15 Schule rivera
1 4	
WE, esle french	and
do solemnly swear that we will well and truly perform	· ·
and other duties, according to instructions given us, to	
Sulchuseum	
	Lesler French, Axman.
11	, Axman.
Subscribed and sworn to before me this}	
day of	
EXPERIMENTAL AND ADDRESS OF THE PROPERTY OF TH	Изамевервич
SEAL()	11 1 Kaluke Branches
-000 u 1	
	, do solemnly swear that I will well and truly
perform the duties of flagman according to instructions	given me, to the best of my skill and ability, in the
survey of Sulchnown 1171	N May
	le I II On liberary
1.0.	WALF CONTRIAGMAN.
Subscribed and sworn to before me this	
day of	
	18celf Stern
WEAL O	MS Stellather Comme .
6—151	- July and the second

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Resurvey of East Bdy., Township 17 North, Range 12.305t
           Survey commenced December 6th, 1911, and executed with a Young & Sons, light mountain transit, No. 7934, equipped
Chains
              with a Smith solar attachment, the horizontal limb being
              provided with two opposite verniers reading to 1' of
              arc, which is also the least count of the verniers of
              the latitude and declination arcs.
           The instrument was examined, tested on the true meridian at Phoenix, found correct, and was approved by the
              Surveyor General for Arizona.
            I examined 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 observation made during a.m. and p.m. hours
              with a meridian determined by observation on Polaris,
               I proceed as follows:
           At my camp at Pat O'Toole's dipping pen, I set off 22° 25' S. on the decl. arc; 34° 56' N. on the lat. arc;
               and at 3 h., p.m., l.m.t., determined with the solar,
               and mark the meridian thus determined by mark on a
               stone firmly set in the ground 5 chs. N. of my station
           At 6 h. 49 m., p.m., by my watch, which is correct for 1.m.t., I observe Polaris in accordance with the manual
               of instructions; and mark a point in the line thus determined by tack in a wooden stake firmly set in the
               ground 5 chs. north of my station.
                 Astron. 1.m.t. of obs.,
                                                      Dec. 6th - - - - 6 49.0
                                                      Dec. 5th - - - - 30 49.0
                 From Table V., U.C. Dec. 1st 8 49.9 - - -
                 Reduction to Dec. 5th,
                                                               15.8 - - - 8 34.1
                  Time elapsed since preceding culmination -- 22 15.0
                                                                                 23 56.0
                  Subtract from
                                                                                  1 41.0
            From Table VII, corresponding azimuth 37' 30 Dec. 7th I lay off the meridian 37' 30" to the west of
                                                                                    37' 30"
               the line of observation, and mark the meridian thus determined by a cross (X) on the stone set Dec. 6th,
               on which the meridian falls 0.2 ins. E. of the mark
           determined by the solar.

Dec. 7th, 1911, at 9 a.m., 1.m.t., I set off 22° 24' S. on the decl. arc, 34° 56' N. on the lat. arc, and mark-
               ed the meridian thus determined by mark on the stone
               already set 5 chs. north of my station. This mark falls
               0.3 ins. W. of the meridian established by Polaris obs.
            I, therefore, conclude that the adjustments of the in-
               strument are satisfactory.
            Preliminary to the commencing of the survey of Ts. 17
               and 18 N., Rs. 12 E., I run N. on a blank line on the E. bdy. of T. 17 N., R. 12 E. I find most of the cors.
               entirely obliterated. At 11 miles, 79.81 chs., I intersect E. and W. line 3.53 chs. W. of cor. for Ts. 18
               and 19 N., Rs. 12 and 12\frac{1}{2} E. As Tps. 17 and 18 N.,
               Rs. 12 and 12\frac{1}{2} E., have not been subdivided, I resurvey
               the range line between them as follows:
            At the Std. T. cor. of T. 17 N., Rs. 12 and 12\frac{1}{2} E., which is a limestone 24 x 10 x 4 ins., marked and witnessed
               as described by the Surveyor General. I renew the
               markings by making 6 grooves on the E. N. and W. faces, and rebuild a mound of stone 2 foot base 1 ft. high N. of cor. I set off 22° 31' 30" S. on the decl. arc 34° 49' N. on the lat arc, and at 10 h., a.m., 1.m.t., determine a meridian with the solar, thence I run:
                  N. on a true line between sections 34 and 36.
                  Descending over rolling land.
            Bottom of descent, draw 1 ch. wide, brs. N.E. ascend. Top of ascent, ridge brs. N. E. and S. W. descend through
   9.00
  14.50
               dense cedars.
  20.00
            Leave dense cedars.
            Road brs. E. and W.
  28.40
  40.00
            Set a limestone 20 x 8 x 6 ins. 12 ins. in the ground for
            $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on the W. face and raise a mound of stone 2 foot base $1\frac{1}{2}$ feet high W. of cor.

The old $\frac{1}{2}$ sec. cor. which is a limestone 20 x 8 x 6 ins.

12 ins in the ground, marked and witnessed as described
  40.13
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by the Surveyor General brs. 11 lks. E., which I destroy

which the meridian falls .2 ins. E. of mark determined

by solar.

Resurvey of East Bdy. Township 17 North, Range 12 East. At 9 a.m., 1.m.t., I set off 9° 29' S., on declination are 34° 56' N. on latitude are and mark the meridian thus determined by a cross on the stone already set 5 Chains chs. N. of my station. This mark falls .2 ins. E. of meridian determined by Polaris. The magnetic bearing of the true meridian is N 14° 30' W.
Feb. 24, at 10 a.m., I set off 9° 28' S., on the declination arc 34° 56' 30" N. on latitude arc to determine a meridian with the solar, thence I run N. from the \(\frac{1}{4}\) core bet. secs. 25 and 27.

40.00 Set a limestone 14 x 8 x 6 ins., 10 ins. in the ground for the core of secs. 22, 24, 25 and 27, marked with 2 notches on the S. face and 4 notches on the N. face; dig pits 18 x 18 x 12 ins. in each sec., 5\(\frac{1}{2}\) ft. dist., and raise a mound of earth 4 ft. base 2 ft. high W. of Magnetic declination N. 14° 20' E. Land rolling, soil sandy, 2nd & 3rd rate. Dense timber, 20 chs. Undergrowth, dense scrub cedar, white sage brush.
Rolling land, and land covered with dense brush 20 chs.
Rolling land 60 chs. N. bet. secs. 22 and 24 over rolling land.

Set a limestone 18 x 10 x 6 ins. 12 ins. in the ground for 2 sec. cor. of secs. 22 and 24, marked 2 on W. face, dig pits 18 x 18 x 12 ins., N. and S. of stone 3 ft. dist., and raise a mound of earth 32 ft. base 12 ft. bish W of stone ft. high W. of stone. Magnetic declination N. 14° 20' E.

80.00. Set a sandstone 25 x 8 x 6 ins., 17 ins. in the ground for cor. of secs. 13, 15, 22 and 24, marked 3 notches on N. and S. edges, 17 N on S.E. face, 12½ E on N.E. face, 12 E on N.W. face, dig pits 18 x 18 x 12 ins. in each sec. 5½ ft. dist., and raise a mound of earth 4 ft. base, 2 ft. high W. of cor.

Magnetic declination N 14 20' E. Land rolling, soil sandy and clay, 2nd and 3rd rate. No timber. Undergrowth, white sage brush and broom-weed. Land rolling 80.00 chs. N. bet. secs. 13 and 15.

40.00 Set a sandstone 18 x 6 x 6, 12 ins. in the ground for \$\frac{7}{2}\$ cor. of secs. 13 and 15, marked \$\frac{1}{2}\$ on W. face, dig pits 18 x 18 x 12 ins. N. and S. of stone, 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base $1\frac{1}{2}$ ft. high W. of Magnetic declination N. 14° 20' E.

80.00 Set a sandstone 20 x 10 x 6 ins., 13 ins. in the ground for cor. of secs. 10, 12, 13 and 15, marked with 2 notches on N. edge, and 4 notches on S. edge, and raise a mound of stone 2 ft. base 1½ ft. high, W. of Magnetic declination N. 14° 20' E. Land rolling, soil sandy, 2nd and 3rd rate. No timber. Undergrowth, white sagebrush and broom-weed. Rolling land 80.00 chs.

N. bet. secs. 10 and 12, over rolling land.

Set a limestone 15 x 10 x 8 ins., 10 ins. in the ground, for \$\frac{1}{2}\$ cor. of secs. 10 and 12, marked \$\frac{1}{2}\$ on W. face, and raise a mound of stone 2 ft. base 1\$\frac{1}{2}\$ ft. high W. of cor.

Magnetic declination N. 14° 20' E.

50.00 Enter dense cedars.

Resurvey of East Bdy . Township 17 North, Range 12 East.

Chains 80.00

Set a limestone 18 x 10 x 8 ins., 12 ins. in the ground for cor. of secs. 1, 3, 10 and 12, marked with 5 notches on the S. edge, 1 notch on N. edge, from which
A cedar 15 ins. diam., brs. S. 41° 30' E., 96 lks.
dist., marked T 17 N R 12½ E S 10 B T.
A cedar 12 ins. diam. brs. S. 39° W., 66 lks. dist.,
marked T 17 N R 12 E S 12 B T.

A cedar 20 ins. diam. brs. N 66° 45' W, 49 lks. dist. marked T 17 N R 12 E S 1 B T.

A cedar 15 ins. diam. brs. N. 20° E, 75 lks. dist.,

marked T 17 N R 12 E S 3 B T.

Magnetic declination N. 14 20' E.

Land rolling. Soil sandy and rocky, 2nd and 3rd rate. No timber. Undergrowth scrub cedar, white sagebrush, broom-weed.

Land rolling and covered with dense cedar trees 30 chs. Land rolling 50.00 chs.

40.00

N. bet. secs. 1 and 3. Over rolling land and through dense cedar. Set a limestone 15 x 10 x 8 ins., 10 ins. in the ground for $\frac{1}{4}$ cor. secs. 1 and 3, marked $\frac{1}{4}$ on W. face, dig pits 18 x 18 x 12 ins., N. and S. of stone, 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high W.

80.00 81.06

Magnetic declination N. 14° 20' E. Point for cor. falls in wash 1 ch. wide, brs. S.W. Cut a cross on a limestone boulder in place, 24 x 24 x 18 ins., above the ground, for witness cor. to township cor. for Ts. 17 and 18 N., Rs. 12 and 12 E., marked W C, and 6 notches on the N, E, S, and W, of cross, and raise a mound of stone 2 ft. base, la ft. high, S. of cor.

Magnetic declination N. 14° 20' E. Land rolling. Soil, sandy and rocky, 2nd and 3rd rate. No timber. Undergrowth, dense scrub cedar, white sage brush, and broom-weed.

Land rolling and covered with dense scrub cedar, 80.00 chs.

February 24, 1913.

Dec. 13, 1911, at the true meridian established by me at my camp, by obs. on Polaris, I set off 23° 3' S. on the decl. arc, 34° 56' N., on the lat. arc, and at 4 h., p.m., l.m.t., I determine a true meridian with the solar and mark a point in this meridian 5 chs. N. of my station, which point is one-half in. E. of cross established by obs. on Polaris, Dec. 14th, at my station, I set off 23° 7' S. on the decl. arc, 34° 56' N., on the lat. arc; and at 8:30 a.m., 1.m.t., determine a true meridian with the sokar, and mark a point in same 5 chs. N. of my station, which point is one-quarter in. W. of true meridian established by Polaris. I judge

the adjustments of my solar to be correct.

At the corner of secs. 1, 2, 35 and 36, recently established by me, I set off 23° 4' 30" S., on the decl. arc 34° 54' 30" N., on the lat. arc, and determine a true

meridian with the solar at 10. a.m., 1.m.t.
Thence, I run S. 0° 1' E., on a true line Bet. secs. 1 and 2.

Road brs. N.E. and S.W.

28.50 30.00

40:00

Road brs. N.E. and S.W. Enter dense cedars.

Set a limestone 15 x 8 x 6 ins., 10 ins. in the ground, for $\frac{1}{2}$ sec. cor. of secs. 1 and 2, marked $\frac{1}{2}$ on W. face, from which

A cedar 8 ins. diam. brs. S. 43° 35' W., 119 lks. dist., marked 4 S, 2 B T.

9.00

Resurvey of East Bdy .. Township 17 North, Range 12 East. A pinon 4 ins. in diam. brs. N. 79° E, 73 lks. dist. marked 2 S 1 B T. Chains Magnetic declination N. 14° 35' E. Thence over rolling land through dense cedars. Thence over rolling land through dense cedars.

Set a limestone 15 x 10 x 6 ins., 10 ins. in the ground, for cor. of secs. 1, 2, 11 and 12, marked with 5 notches on the S. edge, and 1 notch on the E. edge, from which A pinon 6 ins. in diam., brs. N. 77° W., 59 lks. dist., marked T 17 N R 12 E S 2 B T:

A pinon 9 ins. in diam. brs. N. 45° 33' E., 159 lks. dist., marked T 17 N R 12 E S 1 B T.

A cedar, 12 ins. in diam., brs. S. 73° W., 209 lks. dist, marked T 17 N R 12 E S 11 B T.

A pinon 12 ins diam., brs. S. 20° 43' E., 162 lks. dist., marked T 17 N R 12 E S 12 B T.

Magnetic declination N 14° 35' E.

Land rolling. Soil sandy, and gravelly, 2nd and 3rd 80.00 Soil sandy, and gravelly, 2nd and 3rd Land rolling. Dense timber, 50.00 chains. Undergrowth: Dense scrub cedar, white sage brush, and broom weed. Rolling land, and land covered with dense cedar 80.00 At the cor. of secs. 2, 3, 34 and 35, recently established by me, I set off 23° 10' S., on the decl. arc, and at 12 h. M., apparent time, I obs. the sun on the meridian, and obtain on the latitude arc, the reading 34 54' N., which agrees with other data. Thence I run
S. 0° 1' E., on a true line, bet. secs. 2 and 3, over rolling land. Set a limestone 18 x 18 x 6 ins., 12 ins. in the ground for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on the W. face, dig pits 18 x 18 x 12 ins., N. and S. of cor. 3 ft. dist., and raise a mound of earth $3\frac{1}{8}$ ft. base, $1\frac{1}{8}$ ft. high W. of cor. Magnetic declination, N. 14° 35' E. Top N. bank Canon Diablo, steep 250 ft. descent, impossible to ch., to determine the dist. across the canyon, I set a flag on line on the right bank, and measure a some base line N. 89° 59' E., 7.00 chs., to a point from which the flag brs. S. 39° 21' W., therefore, tan.

50° 38' x 7.00, or 1.218 x 7.00 is 8.53 chs. the dist. across the canyon, which added to 50.00 chs. is 58.53 chs. 58.53 Top of right bank Canyon Diablo brs. E., ascend over rolling land. Set a limestone 18 x 10 x 8 ins., 12 ins. in the ground, for cor. of secs. 2, 3, 10 and 11, marked with 5 notches on S. edge, and 2 notches on the E. edge; dig pits 18 x 18 x 12 ins. in each section $5\frac{1}{2}$ ft. dist.; and raise a mound of earth 4 ft. base, 2 ft. high, W. of Magnetic declination, N. 14° 35' E. Land rolling and mountainous. Soil sandy and rocky. No timber. Undergrowth, scattered scrub cedar, broom weed, and white sage brush. Mountainous land, or land covered with limestone boulders, 12 chs. Rolling land 68.00 chs. E. on a random line bet. secs. 2 and 11. Set temp. ½ sec. cor.
Intersect N. & S. line, 6 lks. N. of cor. of secs. 1, 2,
11 and 12, therefore, I run
N. 89° 57' W., on a true line bet. secs. 2 and 11. 40.00 79.96

Road, Everett's homestead to Winslow, brs. S.W. and N.E.

Road, Everett's homestead to Canyon Diablo Station, brs.

over rolling land.

S.W. and N.E.

20.00

34.25

87

Subdivisions, Township 17 North, Range 12 East. Chains. 39.98 Set a limestone 15 x 10 x 8 ins., 10 ins. in the ground for $\frac{1}{4}$ sec. cor. of secs. 2 and 11, marked $\frac{1}{4}$ on the N. face, dig pits 18 x 18 x 12 ins., E. and W. of stone, 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high N. of cor. Magnetic declination N. 14° 35' E. The cor. of secs. 2, 3, 10 and 11: Land rolling. Soil sandy. No timber. Undergrowth, scattered scrub 79.96 cedar, broom weed, and white sage brush. Rolling land 79.96 chs. December 14, 1911. February 26, 1913. S. 0° 1' E. bet. secs. 10 and 11 over rolling land through dense cedars. Canyon 2 chs. wide, brs. W. Bet a limestone 18 x 8 x 6 ins., 12 ins. in the ground 19.00 40.00 for \$\frac{1}{2}\$ sec. cor. of secs. 10 and 11, marked \$\frac{1}{2}\$ on W. face from which: A cedar 9 ins. diam. brs. N. 20° E., 31 lks. dist., marked 2 S 11 B T. A cedar 12 ins. diam. brs. N. 35° W., 92 lks. dist., marked 2 S 10 B T. Magnetic declination, N. 14° 30' E. Leave dense cedars. Road brs. N. E. and S.W. 42.00 64.00 70.00 Enter dense cedars. A limestone 15 x 8 x 6 ins., 10 ins. in the ground for the cor. of secs. 10, 11, 14 and 15, marked with 4 notches on the S. edge, and 2 notched on the E. edge, 80.00 from which A cedar 6 ins. in diam. brs. S. 47° 15' E., 21 lks. dist., marked T 17 N R 12 E S 14 B T. A cedar 12 ins. in diam. brs. S. 59° 11' W., 48 lks. dist., marked T 17 N R 12 E S 15 B T. A cedar 9 ins. in diam. brs. N. 30° W., 195 lks. dist., marked T 17 N R 12 E S 10 B T. A cedar 12 ins. in diam. brs. N. 50° 50' F 356 lbs. A cedar 12 ins. in diam. brs. N. 69° 50' E., 156 lks. dist., marked T 17'N R 12 E S 11 B T. Magnetic declination N. 14° 35' E. This corner was set December 14, 1911. nd rolling. Soil sandy, 2nd and 3rd rate. Land rolling. growth: dense scrub cedar, broom weed, and white 'sage brush: Rolling land, and land covered with dense scrub cedar 52.00 chs. Rolling land 28.00 chs. February 26, 1913. December 14, 1911: S. 0 1' E., bet. secs. 14 and 15. Descending over rolling land through dense cedars. 40.00 Set a limestone 15 x 8 x 8 ins., 10 ins. in the ground for $\frac{1}{4}$ sec. cor., of secs. 14 and 15, marked $\frac{1}{4}$ on the W. face, from which A cedar 15 ins. in diam. brs. N. 12° 45' W., 144 lks. dist., marked # S 15 B T. A cedar 9 ins. in diam., brs. N. 25° E., 124 lks. dist., marked 2 S 14 B. T. 43.00 Leave dense cedars. 47.00 Road brs. S.W. and N.E.

Enter flats, brs. SW. Leave flats, ascend. 51.00

56.00 80.0d

On N. slope of ridge. Set a limestone 18 x 8 x 8 ins., 12 ins. in the ground for cor. of secs. 14, 15, 22 and 23, marked with 3 notches on the S. edge, and 2

notches on the E. edge, from which A cedar 9 ins. in diam., brs. N. 25° 35' E., 55 lks. dist., marked T 17 N R 12 E S 14 B T. st., marked T 17 N R 12 E S 14 B T. A cedar 12 ins. in diam. brs. N. 51 W., 123 lks.

- dist., marked T 17 N R 12 E S 15 B T.
A cedar 7 ins. in diam. brs. S. 42 40 E., 156 lks.

dist., marked T 17 N R 12 E S 23 B T. · ·

Subdivisions, Township 17 North, Range 12 East. A cedar 9 ins. in diam. brs. S. 64° 50' W., 89 lks. dist., marked T 17 N .R 12 E S 22 B T.

Magnetic declination, N. 14° 35' E.,
Land rolling. Soil sandy. Undergrowth: dense Chains scrub cedar, white sage brush, and broom weed. Rolling land, and land covered with dense scrub cedar, 43.00 chs. Rolling land, 37.00 chs. S 0° 1' E., on a true line bet. secs. 22 and 23. Ascending over rolling land. Top of ridge, E. and W., descend. Set a limestone 18 x 6 x 8 ins., 12 ins. in the ground, 6.00 40.00 for \$\frac{1}{2}\$ sec. cor. of secs. 22 and 23, marked \$\frac{1}{2}\$ on the W. face, dig pits 18 x 18 x 12 ins. N. and S. of stone, 3 ft. dist., and raise a mound of earth 31 ft. base, 12 ft. high, W. of cor.

Magnetic declination, N.14 35' E. Bottom of descent, ascend. 80.00 Top N.W. slope of ridge, set a limestone 18 x 7 x 6 ins., 12 ins. in the ground for cor. of secs. 22, 23, 26 and 27, marked with 2 notches on the S. edge, and 2 notches on the E. edge, from which A cedar 7 ins. in diam. brs. S 54° 15' E., 270 lks. dist., marked T 17 N R 12 E S 26 B T.

A pinon 9 ins. in diam. brs. N. 50° E., 76 lks. dist., marked T 17 N R 12 E S 23 B T. A pinon 9 ins. in diam. brs. N. 16° 30' W., 139 lks. dist., marked T 17 N R 12 E S 22 B T.

A pinon 9 ins. in diam. brs. S. 55° 17' W., 135 lks. dist., marked T 17 N R 12 E S 27 B T.

Magnetic declination, N. 14° 35' E.

Land rolling. Soil sandy, 2nd and 3rd rate.

Scattering timber. Undergrowth, scrub cedar, white sage brush, broom weed. Rolling land 80.00 chs.

December 14. 1931. December 14, 1911. Dec. 15, 1911, at 8:30 a.m., l.m.t., I set off 23° 10' 30" S., on the decl. arc, 34° 54' 30" N., on the lat. arc and determine the meridian with the solar at the cor. of secs. 3, 4, 33 and 34.

Thence I run S.0° 2' E., bet. secs. 3 and 4. Ascending over rolling land. 20.00 Top of ascent, descend. Set a sandstone 15 x 8 x 6 ins., 10 ins. in the ground for $\frac{1}{4}$ sec. cor. of secs. 3 and 4, marked $\frac{1}{4}$ on W. face, dig pits 18 x 18 x 12 ins., N. and S. of stone, 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high W. of cor. Magnetic declination, N.14 40' E.

Set a limestone 15 x 12 x 8 ins., 10 ins. in the ground for cor. of secs. 3, 4, 9 and 10, marked with 5 notches on the S. edge, and 3 notches on the E. edge, and 80.00 raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high, W. of Magnetic declination, N. 14° 40' E. Land rolling. Soil: Sandy and clay, 2nd and 3rd rate. No timber. Undergrowth; scattered scrib cedar, white sage brush, and broom weed. Rolling land, 80.00 chs.

Descending over rolling land.

40.00 Set temp. ½ sec. cor.

80.08 Intersect N. and S. line, 5 lks. N. of cor. of secs.

2, 3, 10 and 11, therefore, I run

From the cor. of secs. 3, 4, 9 and 10, I run E. on a

random line bet. secs. 3 and 10.

60.00 chains.

Rolling land 20.00 chains. . .

Sul	odivisions of Township 17 North, Range 12 East.	9
Chains	At the cor. of secs. 9, 10, 15 and 16, I set off 23° 13' 30" S., on the decl. arc, and at 12 h. M. apparent time	
	obs. the sun on the meridian, and obtain a reading of 34° 52' N. on the lat. arc, which agrees with other data.	
	Thence I run, S. 89° 58' E., on a random line, bet. secs. 10 and 15.	
40.00	Ascending over rolling land.	
80.12	Intersect N. and S. line 2 lks. S. of cor. of secs. 10, 11, 14 and 15.	
•	Thence I run. N. 89° 59' W. on a true line bet. secs. 10 and 15, de-	
10.00		
40.06	Set a limestone 18 x 10 x 8 ins., 12 ins. in the ground for $\frac{1}{4}$ sec. cor. of secs. 10 and 15, marked $\frac{1}{4}$ on the N.	
	face, dig pits $18 \times 18 \times 12$ ins. E. and W. of stone 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base,	
55.00	12 ft. high, N. of cor. Magnetic declination N. 14° 35' E. Top bank gulch, 3.00 chs. wide, brs. N., descend.	
56.50 58.00	Bottom gulch, ascend.	
70.00	Top of ascent, descend.	
78.00 80.12	Everett's and Milburn's road brs. N.N. and S.E.	
	Land rolling. Soil sandy, 2nd and 3rd rate. No timber, 70.12 chains. Dense timber 10.00 chains.	
	Undergrowth, scattered scrub cedar, white sage brush, and broom weed.	
	Rolling land, 80.12 chains.	
,		
	From the cor. of secs. 9, 10, 15 and 16, Thence I run, S. 0° 2' E., on a true line bet. secs. 15 and 16. Over rolling land.	
40.00		
	face, from which A cedar 12 ins. in diam., brs. S. 77° E., 89 lks.	
	dist., marked \$\frac{1}{4}\$ S 15 B T. A cedar 15 ins. in diam., brs. N. 68° 58' W., 70 lks.	
	dist., marked 2 S 16 B T. Magnetic declination, N. 14° 35' E.	
44.00 50:00	Enter dense cedars.	
80.00	cor. of secs. 15, 16, 21 and 22, marked with 3 notches	or
	on the S. edge, and 3 notches on the E. edge, dig pits 18 x 18 x 12 ins., in each sec. $5\frac{1}{2}$ ft. dist., and raise	
	a mound of earth 4 ft. base, 2 ft. high, W. of cor., from which: A cedar 12 ins. in diam., brs. S. 75° 30' E., 37	
	lks. dist., marked T. 17 N R 12 E S 22 B T A cedar 12 ins in diam., brs. N. 29° 35' E., 127	
	lks. dist., marked T 17 N R 12 E S 15 B T. A cedar 15 ins. in diam., brs. S. 22° 35' W., 274	
	lks. dist., marked T. 17 N R 12 E S 21 B T. No other tree available.	
	Magnetic declination N. 14° 35' E. Land rolling. Soil sandy, 2nd and 3rd rate. No timber. Undergrowth, dense scrub cedar, white sage	
	brush, and broom weed. Land rolling, and covered with dense scrub cedar 30.00	
₹ -	chains. Land rolling 50.00 chains.	

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Subdivisions of Township 17 North, Range 12 East.
Chains
              From the cor. of secs. 15, 16, 21 and 22, I run
                    S. 89° 59' E., on a random line bet. secs. 15 and
           Set temp. ½ sec. cor.
Intersect N. & S. line, 4 lks. S. of cor. of secs. 14,
 40.00
 80:00
              15, 22 and 23.
                     Thence I run, S. 89° 59' W., on a true line bet.
              secs. 15 and 22.
              Descending over rolling land.
           Set a limestone 14 x 8 x 6 ins., 9 ins. in the ground for
 40.03
              \frac{1}{4} sec. cor. of secs. 15 and 22, marked \frac{1}{4} on N. face, and raise a mound of stone 2 ft. base, 1\frac{1}{8} ft. high, N.
              of cor.
           Road Milburn's to Everett's brs. S.E. and N.W.
 69.00
           The cor. of secs. 15, 16, 21 and 22.

Land rolling. Soil sandy, and gravelly, 2nd and 3rd
 80.06
              rate. No timber. Scattered scrub cedar, white sage
              brush, broom weed, and grass.
             · Rolling land 80.06 chs.
                                                              Dec. 15, 1911
           Dec. 16, 1911, at 9 a.m., 1.m.t., at cor. of secs. 9, 10, 15 and 16, I set off 23° 15' 30" S., on the decl. arc., 34° 53' N., on the lat. arc, and determine a true meri-
               dian with the solar. ...
                 Thence I run W. on a true line bet. secs. 9 and 16,
               ascending over rolling and mountainous land.
           Draw N.E. 20.00 lks. wide, ascend. Fence brs. N.E. and S.W.
   4.10
   5.Q0
            Enter dense cedars.
  35.00
            Top of ascent, set a limestone 18 x 6 x 6 ins., 12 ins.
 40.00
               in the ground for a sec. cor. of secs. 9 and 16, marked
              on N. face, from which:
A cedar 12 ins. in diam., brs. S. 43° E., 35 lks.
dist., marked $ S 16 B T.
                 A cedar 9 ins. in diam., brs. N. 16° 40' E., 76 lks.
               dist., marked 2 S 9 B T.
                      Magnetic declination N. 14° 40' E.
            Thence descending through dense cedars. Bottom gulch 25 lks. wide, brs. N. ascend. Top of ridge brs. N. and S., descend.
  43.00
  46.00
            Gulch, 50 lks. wide, brs. N. ascend.
  53.00
            Top of ascent, ridge, brs. N. and S., steep 300 ft.
  60.00
               descent to Canyon Diablo, perpendicular banks, impossible to chain to determine the distance across the
              canyon; I set a glag on line in Canyon Diablo, then measure a base line S. 6 chs. to a point from which the flag bears N. 58° 32' W., therefor tan. 58° 32' x base, or 1.639 x 6.00= 9.800 chs., which added to 60.00 chs., makes 69.80 chs., the dist. to the point in Conyon Diablo.
  W. 9.80
              in Canyon Diablo.
            Bettom of Canyon Diablo, 3.00 chs. wide, brs. N. and S.
  69.80
               3 chs. to water tank of W. C. Everett.
            Ascend steep bank N. side of sanyon.
  71.30
           Top of steep ascent, descend along bank of side canyon.
  73.00
           Leave side canyon, ascend.

Set a limestone 18 x 8 x 8 ins., 12 ins. in the ground

for cor. of secs. 8, 9, 16 and 17, marked with 4 notches

on the S. edge, and 4 notches on the E. edge, and raise
  78.50
  80.00
              a mound of stone 2 ft. base, la ft. high, W. of cor.

Magnetic declination N. 14 40' E.
               Land rolling and mountainous.
               Soil sandy and rocky.
               No timber, 35.00 chs; dense timber 45.00 chs.
               Undergrowth, dense cedar, white sage brush, and broom
               Mountainous land, very steep slopes, loose boulders, or covered with dense underbrush, and exceptionally
                  difficult to survey 45.00 chs.
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Land rolling 35.00 chs.

-		Subdivisions of Township 17 North, Range 12 East. 11
	Chains	From the cor. of secs. 8, 9, 16 and 17, I run, S. 0° 2' E., on a true line bet. secs. 16 and 17. Over mountainous land, ascending a steep rocky 300
	1.00	ft. slope. Gulch 25 lks. wide, brs. N.E., ascend through dense cedars
	27.00	Top of ascent, leave dense cedars, N. bank of Canyon Diablo, brs. E. steep 300 ft. descent, impossible to chain to determine the distance across the canyon; I set a flag on line on S. bank, then measure a base line
	148	S. 89° 58' W., 6.00 chs. to a point from which the flag brs. S. 35° 15' E., therefore, tan. 90° - 35° 13' x the base or 1.416 x 6 = 8.50 chs., the distance across, which added to 27.00 makes 35.50 chs. to the south bank of the canyon.
	35.50	Top steep S bank Canyon Diablo, ascend over mountainous land.
	40.00	On steep W. slope above Canyon Diablo, set a limestone 15 x 10 x 8 ins., 10 ins. in the ground for \(\frac{1}{4}\) sec. cor. of secs. 16 and 17, marked \(\frac{1}{4}\) on the W. face, raise a mound of stone 2 ft. base, 1\(\frac{1}{2}\) ft. high, W. of cor. Magnetic declination N. 14 40' E.
	50.00	Top S. bank Canyon Diablo, enter dense cedars, ascend along N. and S. ridge.
	80.00	Set a limestone 18 x 12 x 10 ins., 12 ins. in the ground for the cor. of secs. 16, 17, 20 and 21, marked with 3 notches on the S. edge, and 4 notches on the east edge, raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high
		. W. of cor., from which . A cedar 10 ins. in diam., brs. N. 9° W., 8 lks.
	The state of the s	dist., marked T 17 N R 12 E S 17 B T A cedar 6 ins. in diam., brs. N. 25° E., 222 lks dist., marked T 17 N R 12 E S 16 B T.
	The second secon	A cedar 6 ins. in diam. brs. S. 32° E., 77 lks. dist. marked T 17 N R 12 E S 21 B T. No other tree available. No other tree available. Magnetic declination N. 14° 40' E.
		Land wery mountainous. Soil sandy and rocky, 2nd 3rd and 4th rate. No timber 25.00 chains, Dense timber 55.00 chains. Undergrowth, dense scrub cedar, broom weed. Mountainous land, very steep slapes, and loose rocky boulders, or covered with dense underbrush, and exceptionally difficult to survey 80.00 chains.
		At the cor. of secs. 16, 17, 20 and 21, at 12 h. M., apparent time, I set off 23° 16' 30" S., on the decl. ard, and obs. the sun on the meridian, and obtain on the lat. arc the reading 34° 52' N., which agrees with other data. Thence I run E. on a random line, bet. secs. 16
	40.00 79.95	and 21, descending bver rolling land. Set temp. 2 sec. cor. Intersect N. and S. sec. line, 4 lks. S. of cor. of
	13.30	secs. 15, 16, 21 and 22. Thence I run S. 89° 58' W., on a true line bet.
		secs. 16 and 21. Ascending over rolling land through dense cedar brush
	39.97	and timber. Set a limestone 18 x 10 x 8 ins., 12 ins. in the ground for $\frac{1}{4}$ sec. cor., secs. 16 and 21, marked $\frac{1}{4}$ on N. face;
	The second secon	from which: A cedar 12 ins. in diam., brs. N. 64° 15' W., 58
	The second secon	lks. dist., marked & S 16 B T. A cedar 10 ins. in diam., hrs. S. 51° 49' E., 64 lks. dist., Marked & S 21 B T. Megnetic declination N. 14° 40' E.
		Leave dense cedars. Top of ridge, brs. N. and S., descend. The cor. of secs. 16, 17, 20 and 21.
	70070	Land rolling. Soil sandy and gravelly, 2nd and 3rd rate No timber 30.00 chains; dense timber 49.95 chs.
		· · · · · · · · · · · · · · · · · · ·

1	2	Subdivisions of Township 17 North, Range 12 East.
	Chains	· Undergrowth, dense scrub cedars, broom weed, and white
		sage brush. Rolling land, or covered with dense under brush 50.00 chains.
		Rolling land 29.95 chs.
	į	From the cor. of secs. 15, 16, 21 and 22,
		Thence I run S. 0° 2' E., on a true line bet. secs. 21 and 22
	٠	Ascending over rolling and mountainous land through dense cedar brush.
	30.00 39.00	Top of ascent, descend, leave dense cedar brush. Draw 40 lks. wide, brs. N.E., ascend.
	40.00	Set a limestone $18 \times 10 \times 4$ ins., 12 ins. in the ground
		for \$\frac{1}{2}\$ sec. cor. of secs. 21 and 22, marked \$\frac{1}{2}\$ on W. face, raise a mound of stone 2 ft. high, 1\frac{1}{2}\$ ft. base W. of cor.
	47 00	Magnetic declination N. 14° 40' E.
	41.00 80.00	Top of ascent, ridge brs. N.E. and S.W., descend. Set a limestone 18 x 12 x 6 ins., 12 ins. in the ground
		for cor. of secs. 21, 22, 27 and 28, marked with 2 notches on the S. edge; and 3 notches on the E. edge,
	,	dig pits 18 x 18 x 12 ins., in each sec. 5½ ft. dist.,
	-	and raise a mound of earth 4 ft. base, 2 ft. high W. of cor., from which
		A cedar 20 ins. in diam., brs. N. 52° 40' E., 360
		lks. dist., marked T 17 N R 12 E S 22 B T. A cedar 12 ins. in diam., brs. N. 75° 50' W., 178
		lks. dist., marked T 17 N R 12 E S 21 B T. A cedar 24 ins. in diam., brs. S. 44° 10' E., 530
		lks. dist., marked T 17 N R 12 E S 27 B T.
		No other tree available. Magnetic declination N. 14° 40' E.
		Land rolling, and mountainous. Soil, sandy and rocky, 2nd and 3rd rate. No timber.
		Undergrowth, dense cedars, white sage brush, broom weed and grass.
		Mountainous and rolling land, covered with dense
		underbrush, and exceptionally difficult to survey 30.00 chains.
		Rolling land 50.00 chains.
	-	From the cor. of secs. 21, 22, 27 and 28, I run N. 89° 59' E., on a random line bet. secs. 22 and 27.
	40.00	Set temp. 2 sec. cor.
	80.09	Intersect N. and S. line, 6 lks. S. of cor. of secs. 22, 23, 26 and 27, therefore, I run
		S. 89° 56' W., on a true line. Descending from ridge.
	5.00	Bottom of descent.
	11.50	Road brs. S.E. and N.W. Set a limestone 18 x 8 x 6 ins., 12 ins. in the ground,
	40.04	for 4 sec. cor. of secs. 22 and 27, marked 4 on N. face,
		dig pits 18 x 18 x 12 ins. E. and W. of stone, 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft.
		high, N. of cor.
		Magnetic declination N. 14° 40' E.; 10.00 N. to water tank of Harry A. Milburn.
		12 chains N. to frame house, of Harry A. Milburn. The cor. of secs. 21, 22, 27 and 28.
	50.09	Land rolling. Soil sandy, 2nd and 3rd rate.
		No timber. Undergrowth, scattered scrub cedar, white sage brush, grass, and broom weed.
		Rolling land, 80.09 chains. Dec. 16, 1911.

Chains

December 16, 1911, at the true meridian established by me at my camp by obs. on Polaris, I set off 23° 16' S. on the decl. arc, 34° 56' N., on the lat. arc, and at 3 p.m., l.m.t., determine a true meridian with the solar, and mark a point in the meridian, 5 chs. N. of my station, which point falls 0.4 ins. E. of the cross (X) established by observation on Polaris.

December 17, 1911, at my station, I set off 23° 18' S. on the decl. arc, 34° 56' N., on the lat. arc, and at 9 h. a.m., l.m.t., determine a true meridian with the **a**olar, which falls 0.2 in. W. of cross (X) determined by Polaris observation. I therefore, adjudge the ad-

justments of my solar to be correct.

Dec. 17, 1911.

GENERAL DESCRIPTION.

T. 17 N., R. 12 E., is in general a rolling mesa, is cut by one steep canyon, Canyon Diablo, into which smaller washes and canyons drain. The soil is rocky along the canyon, sandy and gravelly in the remainder of the T.

The township contains no permanent water. The ridges and the high portions of the township are covered with a dense growth of cedar suitable for fence posts, and firewood. A good growth of white sage brush and broom weed covers the township, and the township as a whole is suitable for sheep and cattle raising.

W.C. Everett, settler, is located in sec. 9, frame house, water tank in sec. 10, water tank in sec. 16.

Harry A. Milburn, settler, is located in sec. 22, frame house, water tank, garden.

desceletion, Deputy Surveyor.

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.	911 <u>.</u>
A list of the names of the individuals employed by	objecus L
, United States Deputy Surveyor, to assist	
narking the lines and corners described in the foregoing field notes of the st	
nowing the respective capacities in which they acted:	
There I have	Chainman
Dle Schoener	
10 m/askin	
Lestes Trench.	
	•
Aff, Arlies	, Axmun.
FINAL OATH OF ASSISTANTS	
United States Depu	
nose parts or portions of the sulchanne 12/1/	
Besuneyof Land Boly. Try A	> /-
	······································
	of the 515 A
B + meridian, of Thuran	2// which are represented
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	the United States Surveyor
eneral for, Chap Carlle	
11. La Salvanous	, Chainman.
	·
Roll Japanon	, Chainman.
Um Faskin	, Moundman.
A	
Seff Wilson	, Axman.
	Axman.
Listu Tunel.	, Flagman.
<u> </u>	
ubscribed and sworn to before me this)	
day of selember, 190/	6 11
9000000	Comment of the second
6-151	Stofuly Serry

98 6 BUUK 2788

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I. Stoce C Hem	United States Deputy Surveyor, do
solemnly swear that, in pursuance of a contract red	eived from Sant S I myally
United States Surveyor General for	, bearing date of the
day of Jon	, 1992, I have well, faithfully, and truly, in my own
proper person, and in strict conformity with the i	instructions furnished by the United States Surveyor
General for Jagena, the	Manual of Surveying Instructions, and the laws of the
United States, surveyed all those parts or portions	of Suldmoun JINN/112E
Kesuney Llohy III	NRIZE
	of the GHIPRX
maridian in the Teal	of Cay which are represented in the
- , , , , , , , , , , , , , , , , , , ,	
	ne, and under my direction; and I do further solemnly
	established and perpetuated in strict accordance with
_	ial written instructions of the United States Surveyor
· · · · · · · · · · · · · · · · · · ·	e specific manner described in the field notes, and that
the foregoing are the original field notes of such su	irvey.
	O_1 O_2
	Morreeles land
	United States Deputy Surveyor.
R (1)	
Subscribed by said Moseos/C/Sfam/ this 3/3/ day of January	and sworn to before me)
this 3/2 day of January	1962
	D B A
announce C	May Athomson
Ö SEAL Ö GOGGGG	Monta State Commence
	Motory Division of Motor Distres ROVAL. Messohi
	Messohi
APPF	ROVAL.
OFFICE OF THE LINITED ST	 ΓATES SURVEYOR GENERAL,
	Phoenix Ariz Nov. 24 1984
The foregoing field notes of the survey of the	e
Jubdivision lines	s, and Resurvey of
	•
East boundary of Township Nº17	North, Mange N-12 East of the
Gila and Salt River Ba	se and Meridian, Arizona
, -	
executed by POSCOF C. HAM United	tates Deputa Surveyer
under his contract No. 162 deted	lanuary 5, having been
	and explanations made, the said field notes, and the
surveys they describe, are hereby approved.	1
surveys they describe, are hereby approved.	hand Injalls
	United States Surveyor General.
	OF ARIZONA.
I certify that the foregoing transcript of the	field notes of the above-described surveys in
, has been correctly	y copied from the original notes on file in this office.
	T. 4. J. 04. J
	-United States Surveyor General.