

Subdivision of Sec. 20 + 29 T. 2 S. R. 31 E. for J. B. Owens, Com. Oct. 6, 1886.

Course. Degree. Minutes. Chains. Links.

Assisted by Marshall Helmick, B. F. Ogle and John Owens, sworn  
chmn., and J. B. Owens and Henry Owens, sworn flagmn., with a Burt  
improved Solar Compass, adjusted to the sun's declination Oct. 6, 1886.  
I commence at Gov. corner for Secs. 28, 29, 32 + 33, T. 2 S. R. 31 E. the same  
identified by M. Helmick and J. B. Owens for the last 15 years, and run  
on random line bet Sec. 28 + 29 var.  $20^{\circ} E$ ; Descend.

North

20 00 Set temp  $\frac{1}{4}$  S. cor.

40 00 Gov.  $\frac{1}{4}$  S. cor. = Stone  $16 \times 10 \times 5$  ins., marked  $\frac{1}{4}$ ; cor. on E side of ridge.

55 00 Guch, course about  $N. 5^{\circ} W$ .

80 00 Set temp. Sec. cor. Find no indications of original Sec. cor.

I continue along W. side of ravine course N.

120 00 Set temp  $\frac{1}{4}$  S. cor. Cross to E. of ravine as above described.

121 18 Int. E. + W. line 92 links West of plain mound on crest hill  
side; I dig, and find charred end of palm post, 12 ins. below  
surface and in center of mound. I, therefore, set over charred  
stake, a basalt stone  $14 \times 11 \times 9$  ins. marked  $\frac{1}{4}$  on W. face, and  
hired flat stone  $15 \times 11 \times 3$  ins., & I move temp Sec. cor. North 59  
links and thence 46 links East, as per following proportions:  
 $80 :: 81.18 :: 40 :: 40.59$  and  $81.18 :: 92 :: 40.59 :: 46$

Set for cor. to Secs. 20, 21, 28 + 29 a basalt stone,  $19 \times 6 \times 6$  ins., marked with  
4 notches cut on the East and 2 notches cut on the South corner, on W. side  
of ravine course North, from which cor., Marshall Helmick's house bears,  
across ravine,  $N. 30^{\circ} E$ . 159 links.

Run, thence on random lines, bet Secs. 20 + 29;  $N. 19^{\circ} 30'$   
Ascend.

West

10 00 Summit.

12 00 Descend.

24 50 Road, N. + S.

25 00 Foot of bluff; Owen's Creek runs N.

40 00 Set temp.  $\frac{1}{4}$  S. Find no original cor.; Ascend

75 00 Summit.

79 24 Int. N. + S. line 240 links South of Sec. cor., which is a

Degrees Minutes. Chains. Links.

a basalt stone 20x7x7 ins., marked 5 notches on East and 4 notches on North corners, in mound of stone, on summit of N. & S. ridge

Move temp.  $\frac{1}{4}$  S. cor., on this last line East 38 links, and thence North 120 links, and set the original stone, which I find lying on the ground about 90 links N.E. of true point, size of stone 15x7x6 in and plain mark  $\frac{1}{4}$ . This cor. is on the N. side of a ravine or gulch 45 links S.

Move  $\frac{1}{16}$  S. cor. on W  $\frac{1}{2}$  of line bet. secs. 20 + 29, East 57 lks and thence North 180 links and set a basalt stone 23x9x7 ins., and marked + on upper end, rocky hill side facing S.E.

From cor. secs. 19, 20, 29 + 30, run on random line bet. secs. 29 + 30 var.  $19^{\circ} 45' E$ .

40 00 A point 14 links west of  $\frac{1}{4}$  S. cor., a blue basalt stone in angle of fences E. & S., the stone is the Gov. stone as described in original notes, marked  $\frac{1}{4}$  on W. face.

81 56 Int. E. & N. line 279 links East of Cor. which is a basalt stone, marked 5 notches on E., and set in stone mound, on summit of rocky divide.

From this cor., run on true line bet. secs 29 + 32

Descend. var.  $17^{\circ} 35' E$ .

33 50 Owens Creek runs N. Ascend.

40 00 Set temp.  $\frac{1}{4}$  S. cor. - Find no traces of original cor. for  $\frac{1}{4}$  S.

40 41 A basalt stone presenting appearance of having been set for  $\frac{1}{4}$  S. cor. by some party; stone unmarked.

80 41 Sec. cor. secs 28, 29, 32 + 33

I therefore, move temp.  $\frac{1}{4}$  S. cor., East  $20\frac{1}{2}$  links, and set a basalt stone 12x11x6 ins., marked  $\frac{1}{4}$  on N. face, and + on upper end, on hill side facing west.

run, thence, on random line through center sec. 29. var  $19^{\circ} 45' E$ .

8 30 Descend to Ravine, course N. W.; ascend.

17 50 Summit of hill side E. of Owens Creek.

20 00 Descend hill side

Course.	Degree: Minutes.	Chains.	Links.
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North  
 39 50 Owens Creek runs north.  
 40 00 Set temp. center Sec. 29.  
 49 50 Enter field  
 58 00 Leave " Road N.E. + S.W.; Ascend point  
 75 00 Summit;  
 80 84 Int. E. + W. line 76 links East of  $\frac{1}{4}$  S. cor. bet. Secs. 20 + 29.  
 Move temp. center 29, North 42 links, and thence, west 38 lks.  
 to point on true N. + S. center of sec. 29.  
 From  $\frac{1}{4}$  S. cor. bet. Secs. 29 + 30 Run on random line East, through  
 center Sec. 29. Gentle descent.

East  
 20 00 Set temp.  $\frac{1}{6}$  S. cor.  
 38 33 Int. true N. + S. center line 5 links S. of center stake.  
 40 00 Owens Creek runs N.; set stake to mark line.  
 41 50 Fence N. + S.; Ascend hill  
 50 00 Summit.  
 52 00 Descend hill.  
 55 75 Ravine, Course N.W.; Ascend hill.  
 70 00 Summit of ridge N. + S.  
 72 00 Descend hill.  
 77 80 Int. N. + S. line 36 links S. of  $\frac{1}{4}$  S. cor., bet. Secs. 28 + 29.  
 $77.80 : .36 :: 38.33 : .178 + = 18 \text{ links.}$

I, therefore, move point of intersection of cross lines 18 links North, and set a basalt stone  $12 \times 10 \times 8$  ins., marked CS on upper end, deposit charcoal. This cor. is on W. side of Owens creek, from which Mrs. Margaret H. Jarvis' house bears N.W. 68 links.

Move temp  $\frac{1}{6}$  S. cor. on W  $\frac{1}{2}$  of line through E + W center 29 West  $8\frac{1}{2}$  links, and thence North 9 links, and set a basalt stone  $7 \times 7 \times 4$  ins., marked + on top. Also an irregular stone is long by dia., similarly marked, both in mound of stone on East hill side.

From  $\frac{1}{4}$  S. cor. bet. Secs. 20 + 29. Run on random line through center Sect. 20 var.  $19^{\circ}.30$  E; Ascend.  
 North  
 20 00 Summit of rocky hill.

Time	Degrees	Minutes	Chains	Links	Description
			35	00	Descend ridge.
			40	00	Set temp center Sec. 20.
			57	50	Enter field
			80	00	Set temp. $\frac{1}{4}$ S. Find no indications of original cor. for $\frac{1}{4}$ S. Therefore proceed to set same. Commencing at cor. for Secs. 16, 17, 20 & 21. I find here Gov. post, mound + pits, - on hill side facing west. From this cor. I could see through telescope a flag sent forward to N.W. cor. Sec 20., hence I run on true line bet. Secs. 17 & 20 var. $22^{\circ}$ E. Descend.
			4	50	Ravine runs N. Ascend.
			10	00	Summit of ridge; Descend.
			21	00	Owens Creek, course N.E. Ascend.
			23	50	Enter field
			40	00	Set temp. $\frac{1}{4}$ S. cor.
			42	42	Ink N. & S. line 33 links S. of temp $\frac{1}{4}$ S. set on N & S random. (center Sec 20
			47	50	Ogle Creek, runs N.E. Ascend
			53	75	Leave field
			80	53	To sec. cor. A basalt stone on E. hill side in stone mound. $80.53 \div 2 = 40.26^2$ I move temp. $\frac{1}{4}$ S. on true N. by $20$ . West $26\frac{1}{2}$ links, and set a basalt stone, $14 \times 11 \times 6$ ins, marked $\frac{1}{4}$ on N. face, 243 links S. of Ogle Creek. $242\frac{1}{2} - 26\frac{1}{2} = 216$ links = 2 Depart- ure for random N & S, center 20; and $80. - .33 = 79.67 =$ length of same. $79.67 : 2.16 :: 40. : 1.084 +$ I move temp center on N & S. random center 108 links East, to point on true N. & S. center Sec. 20. From $\frac{1}{4}$ S. cor. bet. Secs 20 & 21 I run on random line through center Sec. 20. - var. $19^{\circ}$ E. - Descend
			1	50	Ravine, course N. Ascend hill.
			9	00	Summit; Descend hill.
			19	50	Enter field, at gulch.
			20	75	Owens Creek runs N.
			23	50	Leave field; Road N. & S.; ascend hill.
			40	00	Left stake on line.

	Course.	Degrees	Minutes	Chains	Links	
West	240	72				Int. trees N. & S. center line 33 links S. of temp center
	244	00				Summit of ridge, sloping north.
	246	00				Descend " " "
	59	00				Ravine, N. 20° E. - Fence N. 40° E. - Ascend hill.
	60	00				Set temp. 76 S. cor.
	65	00				Summit. Descend.
	79	94				Int. N. & S. line 79 1/2 links N. of 7/4 S. cor.
						Improve intersection of cross lines, South 40 1/2 links, and made stone mound for center Sec. 20
						Improve temp. 76 S. cor. on W 1/2 of line E & W through sec. 20, South 60 links, and West 33 links, and set a basalt stone 16 x 8 x 6 ins., marked + on top, on E. hill side, west of ravine course N. W.
						October 8 <sup>th</sup> . 1886.