## 1860 Book BOOK 1860 FIELD NOTES

OF THE SURVEY OF THE

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(3)	Eighth Standard Parallel North Thro. Rs. 9, 10,
•	11 and 12 E.
	1860
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90	
8	·
	Of the Gila and Salt River Base and Meridian,
	AS SURVEYED BY
	Philip Contzen , United States Deputy Surveyor,
المرسود الم	Under his Contract No. 124 , dated Dec. 12, 1905. , 189
	Survey commenced, 189
	Survey completed April 18th, 1905, , 189
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Meanders Page.....

BOOK I. Kengla do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain over even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distances to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey of Ocs. 9-10-11-13 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 oth Standard Parallel 11, R's 9-10-11 + 126 Subscribed and sworn to before me this W. G. Power do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corners and other duties, according to instructions given us, to the best of our skill and ability, in the survey of Hannel Galagar, Axman. Subscribed and sworn to before me this , 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 Parallel 11. Lames 6 - 151

PRELIMINARY OATHS OF ASSISTANTS.

1860

Chs,

Survey commenced April 13th, 1905, and executed with a Young and Son's Light Mountain transit No. 5607 with The horizontal limb is provided with solar attachment. two double verniers placed oposite to each other, reading to single minutes 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 and duly approved by the Surveyor-General

at Phoenix, Arizona.

I examine the adjustments of the instrument, and correct the level and collimation errors them 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 an observation on Polaris, I proceed as follows-

At the closing corner for Tp. 32 N., Rs. 8 and 9 E., just established by me this day, I set off 36° 13'
N., on the lat. arc; 9° 04½ N., on the decl. arc, and at 3 hours, 32 minutes, p. m., 1. m. t., by my watch which has correct 1. m., t., determine with the Solar a meridian, and mark a point thereof on a stone firmly set in the ground 5 chs., N. of my station.

At Shours, 55 minutes, p. m., l. m. t., I observe Polaris at western elongation, in accordance with the instructions contained in the Manual and mark a point in the line thus determined, on a plug driven in the

ground, 5 chs., N. of my station.

NOTE- The latitude 36° 13′ N., set off above, was determined by setting off, at 12 0 clock noon, at the above closing corner on the parallel, 9° 03½ N., on the decl. are and observing the sun on the meridian. The above latitude compares favorable with the calculated latitude for this station.

April 13th, 1905.

April 14th, 1905, at 6. 45 a. m., 1. m. t., I lay off the azimuth of Polaris 1° 29 v to the east, and mark the meridian thus determined, by cutting a small groove in the stone set April 13th, on which the meridian falls 0.45 ins., east of the mark determined by the solar.

At 7. 20 a.m. 1. m. t. I set off 36° 13' N., on the Lat. arc. and mark a point in the true meridian determined with the solar, by a cross on the stone already set 5 chs., N. of my station; this mark falls 0.2 ins., east of the meridian established by the polaris observation.

From the above results, I conclude that the adjustments of the instrument are satisfactory.

. The magnetic bearing of the true meridian at 8. 30 a. m., is 14° 41'E properly reduced as per instructions.

From the closing township corner to Tp. 32 N., Rs. 8 and 9/E., previously described in look of field notes of survey of the 2nd. Guide Mer. E. through Tp. 32 N., I run due EAST, and at 16.86 chs., I establish the Standard Corner to Tps. 33 N., Rs. 8 and 9 E., as follows-

Set a limestone, 20 x 8 x 5 ins., 15 ins., in the ground, marked

STOST 33 N BB. thean R 9 E on E and

R 8 E on We aces; with 6 grooves on the N. E. and W. faces: dig pits, 30 x 24 x 12 ins., crosswise on each line, E. and W., 4 ft. and N. of stone 8 ft. dist., and raise a mound of earth 5 ft. base 2 1/2 ft. high, N. of the corner. 6

The Eighth Standard Parallel N., through R. 9 E. (Continued).

		(00:02:0007)
	Chs.	Thence I run.
	02.05	To get an the Good's have the
		East, on the South boundary of Sec. 31.
		Over rolling land.
		Through dense canotillo brush.
	24.00	Begin steep descent.
		Difference between measurements of 40. chs., by two
		sets of chainmen is 8 lks., position of middle point
١		By 1st set, 39.96 chs.
1		By 2nd set, 40.04 chs., the mean of which is
-	40.00	Cat a limestone 10 of City of the mean of which is
ı	40,00	1
1	· 615	1 of Standard 1/4 sec. cor. marked S. C. 1/4 on the N.
١		face, and raise a mound of stones, 2 ft. base, 1 1/2 ft.
J	· IM	high, N. of the corner.
ı		Pits impracticable.
1	EO EA	Hook days me to 71
١	30.30	Foot dry wash, 50 lks. wide, course easterly and ascend.
ı	61,50	Top of ridge bears north-westerly and south-easterly
ı		and descend.
١	71.80	
1		
	76.00	
	. 🖈 🦈	over sand-stone boulders and leave dense brush.
1		Difference between measurements of 80, character by two
		sets of chainmen is 10 lks., position of middle point
1		By let get 40 bears hear around at without hollif
		By 1st set, 79.95chs.,
		By 2nd set, 80.05 chs., the mean of which is
	80.00	Set a limestone, 18 x 7 x 4 1/2 ins. 12 ins. in the
	-	ground for the standard corner to secs. 31 and 32,
		marked with S. C. on the N.; with 1 groove on the W.,
l		marked with 3, C. on the N., with I groove on the W.,
١		and 5 grooves on the E. / faces; and raise a mound of
١		stones, 2 ft. base, 1 1/2 ft. high, N. of the cor.
		Pits impracticable.
		Land rolling and mountainous.
		Soil sandy and rocky; 3rd and 4th rate.
l		No. 1 Sandy and Pocky Srd and 4th Pate.
	•	No timber. Undergrowth canotillo brush.
		Mountainous or land covered with dense undergrowth
		80.00 chs.
		1 COS CO CINDS
		The Contract of the Contract o
		All the Contraction date with some feath some feath some Contraction and the contracti
		EAST, on the South boundary of Sec. 32.
	<i>*</i>	EAST, on the South boundary of Sec. 32. Over mountainous land.
		EAST, on the South boundary of Sec. 32.  Over mountainous land.  Ascending over sandstone boulders.
	<b>2.</b> 00	EAST, on the South boundary of Sec. 32.  Over mountainous land.  Ascending over sandstone boulders.  Top, bears north-westerly and south-easterly and des.
	~ 1	EAST, on the South boundary of Sec. 32.  Over mountainous land.  Ascending over sandstone boulders.  Top, bears north-westerly and south-easterly and des.  Foot.
	5.70	EAST, on the South boundary of Sec. 32.  Over mountainous land.  Ascending over sandstone boulders.  Top, bears north-westerly and south-easterly and des.  Foot.
	~ 1	EAST, on the South boundary of Sec. 32.  Over mountainous land.  Ascending over sandstone boulders.  Top, bears north-westerly and south-easterly and des.  Foot.  Leave boulders and ascend steeper, through dense canotillo
	5.70 12.00	EAST, on the South boundary of Sec. 32.  Over mountainous land.  Ascending over sandstone boulders.  Top, bears north-westerly and south-easterly and des.  Foot.  Leave boulders and ascend steeper, through dense canotillo brush.
	5.70 12.00 20.00	EAST, on the South boundary of Sec. 32.  Over mountainous land.  Ascending over sandstone boulders.  Top, bears north-westerly and south-easterly and des.  Foot.  Leave boulders and ascend steeper, through dense canotillo brush.  Top of ridge bears northerly and southerly and descend.
	5.70 12.00 20.00	EAST, on the South boundary of Sec. 32.  Over mountainous land.  Ascending over sandstone boulders.  Top, bears north-westerly and south-easterly and des.  Foot.  Leave boulders and ascend steeper, through dense canotillo brush.  Top of ridge bears northerly and southerly and descend.  Trail bears N. W. and S. E.
	5.70 12.00 20.00	EAST, on the South boundary of Sec. 32.  Over mountainous land.  Ascending over sandstone boulders.  Top, bears north-westerly and south-easterly and des.  Foot.  Leave boulders and ascend steeper, through dense canotillo brush.  Top of ridge bears northerly and southerly and descend.
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	5.70 12.00 20.00	EAST, on the South boundary of Sec. 32.  Over mountainous land.  Ascending over sandstone boulders.  Top, bears north-westerly and south-easterly and des.  Foot.  Leave boulders and ascend steeper. through dense canotillo brush.  Top of ridge bears northerly and southerly and descend.  Trail bears N. W. and S. E.  Difference between measurements of 40. chs., by two sets of chainmen is 10 ks., position of middle point By 1st set, 39.95 chs.,
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	5.70 12.00 20.00 29.60 40.00	EAST, on the South boundary of Sec. 32.  Over mountainous land.  Ascending over sandstone boulders.  Top, bears north-westerly and south-easterly and des.  Foot.  Leave boulders and ascend steeper, through dense canotillo brush.  Top of ridge bears northerly and southerly and descend.  Trail bears N. W. and S. E.  Difference between measurements of 40. chs., by two sets of chainmen is 10 lks., position of middle point  By 1st set, 39.95 chs.,  By 2nd set, 40.05, chs., the mean of which is set a limestone, 18 x 6 x 5 ins., 12 ins., in the ground for 1/4 sec. cor. marked 1/4 S. C on the N. face; raised a mound of stones, 2 ft. base, 1 1/2 ft. high, N. of the corner.  Pits impracticable.
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	5.70 12.00 20.00 29.60 40.00 41.00 43.80	EAST, on the South boundary of Sec. 52.  Over mountainous land. Ascending over sandstone boulders. Top, bears north-westerly and south-easterly and des. Foot. Leave boulders and ascend steeper. through dense canotillo brush. Top of ridge bears northerly and southerly and descend. Trail bears N. W. and S. E. Difference between measurements of 40. chs., by two sets of chainmen is 10 ks., position of middle point By lst set, 39.95 chs., By 2nd set, 40.05, chs., the mean of which is Set a limestone, 18 x 6 x 5 ins., 12 ins., in the ground for 1/4 sec. cor. marked 1/4 s. C on the N. face; raised a mound of stones, 2 ft. base, 1 1/2 ft. high, N. of the corner.  Pits impracticable. Descend steeply. Foot, dry wash, 30 lks. wide, course southerly and ascend.
	5.70 12.00 20.00 29.60 40.00 41.00 43.80	EAST, on the South boundary of Sec. 32.  Over mountainous land.  Ascending over sandstone boulders.  Top, bears north-westerly and south-easterly and des.  Foot.  Leave boulders and ascend steeper, through dense canotillo brush.  Top of ridge bears northerly and southerly and descend.  Trail bears N. W. and S. E.  Difference between measurements of 40. chs., by two sets of chainmen is 10°1ks., position of middle point  By 1st set, 39.95°chs.,  By 2nd set, 40.05; chs., the mean of which is set a limestone, 18 x 6 x 5 ins., 12 ins., in the ground for 1/4 sec. cor. marked 1/4 S. C on the N. face; raised a mound of stones, 2 ft. base, 1 1/2 ft. high, N. of the corner.  Pits impracticable.  Descend steeply.  Foot, dry wash, 30 lks. wide, course southerly and ascend.  Top.
	5.70 12.00 20.00 29.60 40.00 41.00 43.80 45.00 46.00	EAST, on the South boundary of Sec. 32.  Over mountainous land. Ascending over sandstone boulders. Top, bears north-westerly and south-easterly and des. Foot.  Leave boulders and ascend steeper. through dense canotillo brush. Top of ridge bears northerly and southerly and descend. Trail bears N. W. and S. E.  Difference between measurements of 40. chs., by two sets of chainmen is 10°1ks., position of middle point  By 1st set, 39.95°chs.,  By 2nd set, 40.05; chs., the mean of which is Set a limestone, 18 x 6 x 5 ins., 12 ins., in the ground for 1/4 sec. cor. marked 1/4 S. C on the N. face; raised a mound of stones, 2 ft. base, 1 1/2 ft. high, N. of the corner.  Pits impracticable.  Descend steeply. Foot, dry wash, 30 lks. wide, course southerly and ascend. Top. Descend.
	5.70 12.00 20.00 29.60 40.00 41.00 43.80 45.00 46.00 48.00	EAST, on the South boundary of Sec. 32.  Over mountainous land. Ascending over sandstone boulders. Top, bears north-westerly and south-easterly and des. Foot. Leave boulders and ascend steeper, through dense canotillo brush. Top of ridge bears northerly and southerly and descend. Trail bears N. W. and S. E. Difference between measurements of 40. chs., by two sets of chainmen is 10°1ks., position of middle point  By 1st set, 39.95°chs., By 2nd set, 40.05° chs., the mean of which is Set a limestone, 18 x 6 x 5 ins., 12 ins., in the ground for 1/4 sec. cor. marked 1/4 S. C on the N. face; raised a mound of stones, 2 ft. base, 1 1/2 ft. high, N. of the corner.  Pits impracticable. Descend steeply. Foot, dry wash, 30 lks. wide, course southerly and ascend. Top. Descend. Foot, and ascend.
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	5.70 12.00 20.00 29.60 40.00 41.00 43.80 45.00 48.00 49.00	EAST, on the South boundary of Sec. 32.  Over mountainous land. Ascending over sandstone boulders. Top, bears north-westerly and south-easterly and des. Foot. Leave boulders and ascend steeper, through dense canotillo brush. Top of ridge bears northerly and southerly and descend. Trail bears N. W. and S. E. Difference between measurements of 40. chs., by two sets of chainmen is 10°1ks., position of middle point By 1st set, 39.95°chs., By 2nd set, 40.05°, chs., the mean of which is Set a limestone, 18 x 6 x 5 ins., 12 ins., in the ground for 1/4 sec. cor. marked 1/4 S. C on the N. face; raised a mound of stones, 2 ft. base, 1 1/2 ft. high, N. of the corner. Pits impracticable. Descend steeply. Foot, dry wash, 30 lks. wide, course southerly and ascend. Top. Descend. Foot, and ascend. Top, bears northerly and southerly and descend.
	5.70 12.00 20.00 29.60 40.00 41.00 43.80 45.00 46.00 49.00 50.00	EAST, on the South boundary of Sec. 32.  Over mountainous land. Ascending over sandstone boulders. Top, bears north-westerly and south-easterly and des. Foot. Leave boulders and ascend steeper, through dense canotillo brush. Top of ridge bears northerly and southerly and descend. Trail bears N. W. and S. E. Difference between measurements of 40. chs., by two sets of chainmen is 10°1ks., position of middle point  By 1st set, 39.95°chs.,  By 2nd set, 40.05°, chs., the mean of which is Set a limestone, 18 x 6 x 5 ins., 12 ins., in the ground for 1/4 sec. cor. marked 1/4 S. C on the N. face; raised a mound of stones, 2 ft. base, 1 1/2 ft. high, N. of the corner.  Pits impracticable. Descend steeply. Foot, dry wash, 30 lks. wide, course southerly and ascend. Top. Descend. Foot, and ascend. Top, bears northerly and southerly and descend. Foot and ascend.
	5.70 12.00 20.00 29.60 40.00 41.00 43.80 45.00 46.00 48.00 50.00 55.13	EAST, on the South boundary of Sec. 52.  Over mountainous land. Ascending over sandstone boulders. Top, bears north-westerly and south-easterly and des. Foot. Leave boulders and ascend steeper, through dense canotillo brush. Top of ridge bears northerly and southerly and descend. Trail bears N. W. and S. E. Difference between measurements of 40. chs., by two sets of chainmen is 10°1ks., position of middle point By 1st set, 39.95°chs., By 2nd set, 40.05°, chs., the mean of which is set a limestone, 18 x 6 x 5 ins., 12 ins., in the ground for 1/4 sec. cor. marked 1/4 S. C on the N. face; raised a mound of stones, 2 ft. base, 1 1/2 ft. high, N. of the corner. Pits impracticable. Descend steeply. Foot, dry wash, 30 lks. wide, course southerly and ascend. Top. Descend. Foot, and ascend. Top, bears northerly and southerly and descend. Top bears northerly and southerly and descend.
	5.70 12.00 20.00 29.60 40.00 41.00 43.80 45.00 46.00 48.00 50.00 55.13 61.00	EAST, on the South boundary of Sec. 52.  Over mountainous land. Ascending over sandstone boulders. Top, bears north-westerly and south-easterly and des. Foot. Leave boulders and ascend steeper. through dense canotillo brush. Top of ridge bears northerly and southerly and descend. Trail bears N. W. and S. E. Difference between measurements of 40. chs., by two sets of chainmen is 10°1ks., position of middle point By 1st set, 39.95°chs., By 2nd set, 40.05°, chs., the mean of which is Set a limestone, 18 x 6 x 5 ins., 12 ins., in the ground for 1/4 sec. cor. marked 1/4 S. C on the N. face; raised a mound of stones, 2 ft. base, 1 1/2 ft. high, N. of the corner. Pits impracticable. Descend steeply. Foot, dry wash, 30 lks. wide, course southerly and ascend. Top. bears northerly and southerly and descend. Foot and ascend. Top bears northerly and southerly and descend. Foot and ascend. Top bears northerly and southerly and descend. Foot and ascend.
	5.70 12.00 20.00 29.60 40.00 41.00 43.80 45.00 46.00 48.00 49.00 50.00 55.13 61.00 66.50	EAST, on the South boundary of Sec. 52.  Over mountainous land. Ascending over sandstone boulders. Top, bears north-westerly and south-easterly and des. Foot. Leave boulders and ascend steeper, through dense canotillo brush. Top of ridge bears northerly and southerly and descend. Trail bears N. W. and S. E. Difference between measurements of 40. chs., by two sets of chainmen is 10°1ks., position of middle point By lst set, 39.95 chs., By 2nd set, 40.05; chs., the mean of which is Set a limestone, 18 x 6 x 5 ins., 12 ins., in the ground for 1/4 sec. cor. marked 1/4 S. C on the N. face; raised a mound of stones, 2 ft. base, 1 1/2 ft. high, N. of the corner. Pits impracticable. Descend steeply. Foot, dry wash, 30 lks. wide, course southerly and ascend. Top, bears northerly and southerly and descend. Foot and ascend. Top bears northerly and southerly and descend. Foot and ascend. Top, bears northerly and southerly and descend. Foot and ascend.
	5.70 12.00 20.00 29.60 40.00 41.00 43.80 45.00 46.00 48.00 49.00 50.00 55.13 61.00 66.50	EAST, on the South boundary of Sec. 32.  Over mountainous land. Ascending over sandstone boulders. Top, bears north-westerly and south-easterly and des. Foot. Leave boulders and ascend steeper, through dense canotillo brush. Top of ridge bears northerly and southerly and descend. Trail bears N. W. and S. E. Difference between measurements of 40. chs., by two sets of chainmen is 10'lks., position of middle point By 1st set, 39.95'chs., By 2nd set, 40.05', chs., the mean of which is Set a limestone, 18 x 6 x 5 ins., 12 ins., in the ground for 1/4 sec. cor. marked 1/4 S. C on the N. face; raised a mound of stones, 2 ft. base, 1 1/2 ft. high, N. of the corner. Pits impracticable. Descend steeply. Foot, dry wash, 30 lks. wide, course southerly and ascend. Top, bears northerly and southerly and descend. Foot and ascend. Top bears northerly and southerly and descend. Foot and ascend. Top bears northerly and southerly and descend. Foot and ascend. Top, bears northerly and southerly and descend. Foot bears northerly and southerly and descend. Foot bears northerly and southerly and descend. Foot bears northerly and southerly and descend. Foot, thence over gently rolling land.
	5.70 12.00 20.00 29.60 40.00 41.00 43.80 45.00 46.00 48.00 49.00 50.00 55.13 61.00 66.50	EAST, on the South boundary of Sec. 32.  Over mountainous land. Ascending over sandstone boulders. Top, bears north-westerly and south-easterly and des. Foot. Leave boulders and ascend steeper. through dense canotillo brush. Top of ridge bears northerly and southerly and descend. Trail bears N. W. and S. E. Difference between measurements of 40. chs., by two sets of chainmen is 10°1ks., position of middle point By 1st set, 39.95°chs., By 2nd set, 40.05; chs., the mean of which is Set a limestone, 18 x 6 x 5 ins., 12 ins., in the ground for 1/4 sec. cor. marked 1/4 S. C on the N. face; raised a mound of stones, 2 ft. base, 1 1/2 ft. high, N. of the corner. Pits impracticable. Descend steeply. Foot, dry wash, 30 lks. wide, course southerly and ascend. Top. Descend. Foot, and ascend. Top, bears northerly and southerly and descend. Foot and ascend. Top bears northerly and southerly and descend. Foot and ascend. Top, bears northerly and southerly and descend. Foot and ascend. Top, bears northerly and southerly and descend. Foot, thence over gently rolling land. Difference between measurements of 80. chs., by two
	5.70 12.00 20.00 29.60 40.00 41.00 43.80 45.00 46.00 48.00 49.00 50.00 55.13 61.00 66.50	EAST, on the South boundary of Sec. 32.  Over mountainous land. Ascending over sandstone boulders. Top, bears north-westerly and south-easterly and des. Foot. Leave boulders and ascend steeper. through dense canotillo brush. Top of ridge bears northerly and southerly and descend. Trail bears N. W. and S. E. Difference between measurements of 40. chs., by two sets of chainmen is 10°1ks., position of middle point By 1st set, 39.95°chs., By 2nd set, 40.05; chs., the mean of which is Set a limestone, 18 x 6 x 5 ins., 12 ins., in the ground for 1/4 sec. cor. marked 1/4 S. C on the N. face; raised a mound of stones, 2 ft. base, 1 1/2 ft. high, N. of the corner. Pits impracticable. Descend steeply. Foot, dry wash, 30 lks. wide, course southerly and ascend. Top. Descend. Foot, and ascend. Top, bears northerly and southerly and descend. Foot and ascend. Top bears northerly and southerly and descend. Foot and ascend. Top, bears northerly and southerly and descend. Foot and ascend. Top, bears northerly and southerly and descend. Foot, thence over gently rolling land. Difference between measurements of 80. chs., by two
	5.70 12.00 20.00 29.60 40.00 41.00 43.80 45.00 46.00 48.00 49.00 50.00 55.13 61.00 66.50	EAST, on the South boundary of Sec. 32.  Over mountainous land. Ascending over sandstone boulders. Top, bears north-westerly and south-easterly and des. Foot. Leave boulders and ascend steeper, through dense canotillo brush. Top of ridge bears northerly and southerly and descend. Trail bears N. W. and S. E. Difference between measurements of 40. chs., by two sets of chainmen is 10'lks., position of middle point By 1st set, 39.95'chs., By 2nd set, 40.05', chs., the mean of which is Set a limestone, 18 x 6 x 5 ins., 12 ins., in the ground for 1/4 sec. cor. marked 1/4 S. C on the N. face; raised a mound of stones, 2 ft. base, 1 1/2 ft. high, N. of the corner. Pits impracticable. Descend steeply. Foot, dry wash, 30 lks. wide, course southerly and ascend. Top, bears northerly and southerly and descend. Foot and ascend. Top bears northerly and southerly and descend. Foot and ascend. Top bears northerly and southerly and descend. Foot and ascend. Top, bears northerly and southerly and descend. Foot bears northerly and southerly and descend. Foot bears northerly and southerly and descend. Foot bears northerly and southerly and descend. Foot, thence over gently rolling land.
	5.70 12.00 20.00 29.60 40.00 41.00 43.80 45.00 46.00 48.00 49.00 50.00 55.13 61.00 66.50	EAST, on the South boundary of Sec. 32.  Over mountainous land. Ascending over sandstone boulders. Top, bears north-westerly and south-easterly and des. Foot. Leave boulders and ascend steeper. through dense canotillo brush. Top of ridge bears northerly and southerly and descend. Trail bears N. W. and S. E. Difference between measurements of 40. chs., by two sets of chainmen is 10°1ks., position of middle point By 1st set, 39.95°chs., By 2nd set, 40.05; chs., the mean of which is Set a limestone, 18 x 6 x 5 ins., 12 ins., in the ground for 1/4 sec. cor. marked 1/4 S. C on the N. face; raised a mound of stones, 2 ft. base, 1 1/2 ft. high, N. of the corner. Pits impracticable. Descend steeply. Foot, dry wash, 30 lks. wide, course southerly and ascend. Top. Descend. Foot, and ascend. Top, bears northerly and southerly and descend. Foot and ascend. Top bears northerly and southerly and descend. Foot and ascend. Top, bears northerly and southerly and descend. Foot and ascend. Top, bears northerly and southerly and descend. Foot, thence over gently rolling land. Difference between measurements of 80. chs., by two

The Eighth Standard Parallel North, Thro. R. 9 E. (continued)

By 1st set, 79.92 chs., Chs. By 2nd set, 80.08 chs., the mean of which is set a limestone, 18 x 7 x 5 ins., 12 ins., in the ground for the standard corner to secs. 32 and 33, marked 9 C on the N. with 2 grooves on the W., and 4 grooves on the E. faces; dig pits, 24 x 18 x 12 ins., crosswise on each line, E. and W. 3 ft. dist., and N. of stone, 7 ft. dist., and raise a mound of earth 4 ft. base, 2 ft. high, N. of the cor.

Land mountainous and gently rolling. 80.00 Soil, gravelly and rocky; 4th rate, No timber; undergrowth, canotillo brush. Mountainous, or land covered with dense undergrowth, 80.00 chs., ----EAST, on a true line on the south boundary of Sec. 33. Over gently rolling land. Through dense canotillo brush. Trail to Willow Springs, brs. north-westerly and south-.20 easterly. 5.00 Descend gradually. Leave dense brush, bears N. and S. and begin steep 26,00 descent over large sand-stone boulders. Foot and enter Badawa Canon, course easterly; thence 31.00 along the S. bank of canon over rocks and boulders. Difference between measurements of 40. chs., by two sets of chainmen is 18 1ks., position of middle point By 1st set, 39.91 chs.,

By 2nd set, 40.09 chs., the mean of which is

Set a limestone, 17 x 6 x 5 ins., 11 1/2 ins., in the

ground for the standard 1/4 sec. cor., marked S. C. 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 1/2

ft. base, 1 1/2 ft. high, N. of the corner.

Dry creek, 60 1ks. wide, course south-easterly and

cross to the N. side of the canon.

Dry wash. 1 chain wide. course southerly. 40.00 53.60 Dry wash, I chain wide, course southerly. 72.00 Difference between measurements of 80. chs., by two sets of chainmen is 14 lks., position of middle point

By 1st set, 79.93 chs.,

By 2nd set, 80.07 chs., the mean of which is

Set a limestone, 18 x 6 x 5 ins., 12 ins., in the

ground for the standard corner to secs. 33 and 34, marked 80.00 OK with S C on the N. and 3 grooves on the H. and W. faraised a mound of stone, 2 ft. base, 1 1/2 ft. high, N. of the corner. Pits impracticable. N. of the corner. Pits impractical Land mountainous and gently rolling. Soil gravelly and rocky; 3rd and 4th rate, No timber: undergrowth canotillo brush, Mountainous or land covered with dense undergrowth, 80.00 chs. EAST, on a true line on the south boundary of Sec. 34. In canon bed, over broken ground. Leave canon and begin steep ascent of N. wall. 6.00 Top, bears north-westerly and south-easterly. 9,57 18.00 Descend. 22.00 Foot and ascend. Top, bears N. W. and S. E. and descend. 24.00 27.00 Foot. 30.00 Ascend. Top, bears N. W. and S. E. and descend. 32.00 Difference between measurements of 40. chs., by two sets of chainmen is 16 lks., position of middle point

By 1st set, 39.92 chs., By 2nd set, 40.08 chs., the mean of which is

The Eighth Standard Parallel North, Through R. 8 E. ( Continued).

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Chs.
             Set a limestone, 18 x 6 x 5 ins., 12 ins., in the ground for Standard 1/4 sec. cor. marked S C 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 1/2 ft. base, 1 1/2 ft. high, N. of the cor.
40.00
   014
41.00
              Begin steep descendt.
             Foot, dry wash, 1 chain wide, course S. E. Top, bears north-westerly and south-easterly.
44.00
51.00
60.00
              Descend.
69,00
              Foot, ascend.
75.00
              Top bears north-westerly and south-easterly.
76.00
              Descend.
              Difference between measurements of 80. chs., by two sets
              of chairmen is 14 1ks., position of middle point
             By 1st set, 79.93 chs.

By 2nd set, 80.07 chs., the mean of which is

Set a limestone, 18 x 6 x 5 ins., 12 ins., in the

ground for the standard corner to secs. 34 and 35,

marked S C on the N., with 4 grooves on the W., and 2

grooves on the E. faces: raised a mound of stone, 2

ft. base. 1 1/2 ft. high. N. of the cor. Pits improve
80.00
 D/5
              ft. base, 1 1/2 ft. high, N. of the cor. Pits impract.
              Land mountainous and broken.
              Soil gravelly and rocky: 4th rate.
             No timber.
             Mountainous land 70,00 chs.
                                                                   April 14th, 1905.
             April 15th, 1905, at the above previously described corner, at 7 hours, 28 minutes, a. m., 1. m. t., I set off 9% 41° N., on the decl. arc; 36° 13° N., on the lat. arc and determine a meridian with the solar; Thence I run,
             EAST, on a true line on the south boundary of Sec. 35.
             Over mountainous land.
             Descending over large sand-stone boulders.
           Foot, deep gulch, 20 lks, wide, course north-easterly and ascent vertical 60 ft.; thence along S. bank.
  5.60
             Foot and enter canon, course easterly. Begin steep ascent of N. wall of canon.
 15.00
 18.00
 20.00
             Top, bears north-westerly and south-easterly.
             Descend.
             Difference between measurements of 40. chs.,
             sets of chainmen is 12 1ks., position of middle point
By 1st set, 39.94 chs.,
            By 1st set, 39.94 chs.,

By 2nd set, 40.06 chs., the mean of which is

Set a limestone 17 1/2 x 6 1/2 x 5 ins., 12 ins., in t

ground for standard 1/4 sec. cor., marked S. C. 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 1/2 ft. base, 1 1/2 ft. high, W. of the corner.

Foot, and begin ascent of blue clay ridge.

Top bears north-westerly and south-easterly and dec
 40.00
                                                                                                     in the
   pt
 41.50
             Top bears north-westerly and south-easterly and des.
 45.50
             Foot and enter Willow Springs Valley, bears northerly
 48,00
            and southerly.
Willow Creek (dry), 2 chs., wide, course southerly.
Road, from Willow's Springs to Lee's Ferry, brs.,
 56.00
60.00
             northerly and southerly.
62,00
             Leave valley and ascend.
             Trail bears N. and S.
63.90
 66.00
             Begin steep ascent.
68.30
             Top bears N. and S. and descend.
             Foot, branch, 10 lks. wide, clear water, course south-
 75.00
             westerly and ascend.
 79.00
             Ascend and stone bluff, vertical 40 ft.
             Difference between measurements of 80. chs., by two
             sets of chainmen is 18 lks. position of middle point
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The Eighth Standard Parallel N., Through R. 9 E. (Concluded).

By 1st set, 79.91 chs.,
By 2nd set, 80.09 chs., the mean of which is
Set a limestone, 18 x 6 x 5 ins., 12 ins., in the ground
for the standard corner to sections 35 and 36 marked Chs. 80.00 S C on the N., with 5 grooves on the W., and 1 groove on the F. faces; and raised a mound of stones, 2 ft. base, 1 1/2 ft. high, N. of the cor. Pits impract. Land mountainous and level. Soil, gravelly and rocky; 3rd and 4th rate. No timber. Mountainous land 66.00 chs. EAST, on a true line on the south boundary of sec. 36. Over mountainous land ascending. Ascend sandstone cliff (vertical) 70 ft., bears N. and 1.30 2.50 Descend. 5.00 Foot and begin steep ascent of sandstone cliffs. 19,14 Bench, 1 chain wide. 25,14 Top, bears northerly and southerly. 26,00 Begin descent through dense canotillo brush. Difference between measurements of 40. chs., by two sets of chainmen is 20 lks; position of middle point By 1st set, 39.90 chs., By 2nd set, 40.10 chs., the mean of which is Set a limestone, 18 x 7 x 5 ins., 12 ins., in the ground for standard 1/4 sec. cor. marked S C 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 1/2 ft. base, 1 1/2 ft. high, N. vof the corner. 40.00 0/5 A. 46,00 Foot of descent, bears northerly and southerly. 47.00 Ascend sand ridge. 50.50 Top and descend. 59.00 Foot, leave dense brush, bears E. and W., thence over solid rolling sandstone. Difference between measurements of 80. chs., by two sets of chainmen is 14 lks., position of middle point
By 1st set, 80.07 chs.,
By 2nd set, 79.93 chs., the mean of which is
Set a limestone 20 x 8 x 4 1/2 ins., 15 ins., in the
ground, for standard township corner, marked 80.00 9/5 SCT 33 N on N R 10 E on E R 9 E on W faces: with 6 grooves on the N., E. and faces: and raised a mound of stones, 2 ft. base, 1 1/2 ft. high, N. of the corner. Pits impract. Land mountainous. Soil, sandy and rocky: 4th rate.
Mountainous, or land covered with dense undergrowth, 80.00 chains. The Eighth Standard Parallel N., Through R. 10 E.

From the corner to Tps. 32 N., Rs. 9 and 10 E., just established and previously described. I run EAST, on a true line on the south boundary of sec. 31. Ascending over rolling sandstone.

Difference between measurements of 40. chs., by two sets of chairmen is 12 lks., position of middle point,

sets of chairmen is 12 lks., position of middle point,

By 1st set, 39.94 chs.,

By 2nd set, 40.06 chs., the mean of which is

Set a limestone, 18 x 6 x 5 ins., 12 ins., in the ground

for standard 1/4 sec. cor., marked S C 1/4 on the N.

face: dig pits, 18 x 18 x 12 ins., E. and W., 3 ft.

dist., and raise a mound of earth, 3 1/2 ft. base, 1 1/2

40,00

10

The Eighth Standard Parallel North; Thro. R. 10 E. ( continued).

ft. high, N. of the corner. Top of ascent bears N. and S., and begin steep descent over sandstone ridges and boulders.
Difference between measurements of 80 chs., by two sets of chainmen is 16 lks., pesition of middle point

By 1st set, 79.92 chs.,

By 2nd set, 80.08 chs., the mean of which is set a limestone, 18 x 6 x 5 ins., 12 ins., in the ground for the standard corner to sections 31 and 32, marked S C on the N. with 1 groove on the W., and 5 grooves Chs. 73.50 80,00 K/C S C on the N., with 1 groove on the W., and 5 grooves on the E. faces, and raise a mount of stones, 2 ft. base, 1 1/2 ft. high, N. of the cor. Pits impracticable. Land mountainous. Soil sandy and rocky: 4th rate. No timber. Mountainous land 80. chs. EAST, on a true line, on the south bdy. of sec. 32. Over mountainous land. Descending. 20.00 Foot, bears north-erly and southerly; thence over rolling sandstone and sand ridges. Difference between measurements of 40. chs., by two sets of chaimmen is 10 lks., position of middle point By 1st set, 40.05 chs.,

By 2nd set, 39.95 chs., the mean of which is

Set a limestone, 18 x 6 x 5ins., 12 ins., in the ground

for standard 1/4 sec. cor., marked S.C. Market 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 1/2 ft.

base, 1 1/2 ft. high, N. of the cor.

nifference between measurements of 80. chs., by two 40.00 Difference between measurements of 80. chs., by two sets of chairmen is 12 lks., position of middle point By 1st set, 80.06 chs.

By 2nd set, 79.94 chs., the mean of which is

Set a limestone, 18 x 6 x 5 ins., 12 ins., in the ground

for the standard corner to sections 32 and 33, marked

S C on the N., with 2 grooves on the W., and 4 grooves 80,00 on the E. faces; whence A cedar tree, 14 ins., in diam. brs. N. 43° E., 34° Iks. dist. mkd. T 33 N R 10 E S 33 B T

A cedar tree, 24 ins., in diam. brs. N. 8° W., 175 lks. dist., mkd. T 33 N R 10 E, S 32 B T

No other trees within limits. Land rolling and mountainous. Soil sandy a d rocky; 4th rate. Timber scattering codar. Mountainous land 20. chs. April 15th, 1905. - 0 April 16th, 1905, at the corner just previously e tab-lished and described by me, at 8 hours, 3 minutes, a. m., 1. m. t., I set off 36° 13° N., on the lat. arc; 10° 03° N., on the decl. arc, and determine a meridian with the solar. Thence I run, with the solar. Thence I run, EAST, on a true line on the south bdy. of sec. 33. Over sand ridges; through scattering oedars. Difference between measurements of 40. chs., by two sets of chainmen is 8 lks., position of middle point By 1st set, 39.96 chs.

By 2nd set, 40.04 chs., the mean of which is

Set a limestone, 18 x 7 x 4 1/2 ins., 12 ins., in the

ground for standard 1/4 sec. cor., marked S C 1/4 on 40,00 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 1/2 ft. base, 1 1/2 ft. high, N. of the corner.

The Eighth Standard Parallel North; Thro. R. 10 E. ( Continued).

Difference between measurements of 80, chs., by two. Chs. sets of chainmen is Months, position of middle point

By 1st set, 39.95 chs.,

By 2nd set, 0.05 chs., the mean of which is

Set a limestone, 18 x 6 x 5 ins., 12 ins., in the ground

for the standard corner to secs., 33 and 34, marked

S C on the N., with 3 grooves on the E. and W. faces;

dig nits. 24 x 18 x 12 ins., crosswise. on each line. 80.00 115 dig pits, 24 x 18 x 12 ins., crosswise, on each line, I. and W., 2 ft. dist. and N. of stone 7 ft. dist. and raise a mound of earth, 4 ft. base, 2 ft. high, N. of the cor. Land gently rolling. Soil, sandy: 4th rate. Timber, scattering cedars. EAST, on a true line on the South boundary of Sec. 34. Over gently rolling sand dunes. Difference between measurements of 40. hs., by two sets of chainmen is 10 lks., position of middle point

By 1st set, 39.95 chs.,

By 2nd set, 40.05 chs., the mean of which is

Set a limestone, 18 x 6 x 5 ins., 12 ins., in the ground

for standard 1/4 sec. cor. marked S.C. 1/4 on the N.

face; and raise a mound of stones, 2 ft. base, 1 1/2

ft. high. W. of the cor. Pite impracticable 40,00 ft. high, N. of the cor. Pits impracticable. Difference between measurements of 80. chs., by two Difference between measurements of 80. chs., by two sets of chainmen is 3 lks., position of middle point

By 1st set, 80.04 chs.,

By 2nd set, 79.96 chs., the mean of which is

Set a limestone, 20 x 8 x 5 fns., 15 ins., in the ground for standard section corner, marked S C on the N., with 4 grooves on the W., and 2 grooves on the E. faces; dig pits, 24 x 18 x 12 ins., crosswise on each line,

E. and W., 3 ft. and N. of stone, 7 ft. dist. and raise a mound of earth, 4 ft. base, 2 ft. high, N. of the cor. Land rolling. 80,00 Land rolling. Soil sandy: 4th rate. No timber. - 0 .-EAST, on a true line on the South boundary of Sec. 35. Over rolling land. Through dense canotillo brush. Difference between measurements of 40. chs., by two sets of chainmen is 8'lks., position of middle point By 1st set, 39.96 chs., By 2nd set, 40.04 chs., the mean of which is set a limestone, 17 x 6 x 5 ins., 12 ins., in the ground for standard 1/4 sec. cor. marked S C 1/4 on the N. face; dig pits, 18 x 18 x 12 ins., E. and W., 3 ft. dist., and raise a mound of earth, 3 1/2 ft. base, 1 40.00 olt 1/2 ft. high, N. of the cor. Difference between measurements of 80. chs., by two sets of chainmen is 10 lks., position of middle point By 1st set, 79.95 chs.,

By 2nd set, 80.05 chs., the mean of which is set a limestone, 18 x 7 x 6 ins., 12 ins., in the ground for standard corner to secs. 35 and 36, mkd.

S C on the No with 5 grooves on the W. and 1 groove on the F. faces dig pits. 24 x 18 x 12 ins., crosswip 80.00 on the E. faces dig pits, 24 x 18 x 12 ins., crosswise on each line, E. and W., 3 ft. dist., and N. of stone 7 ft. dist. and raise a mound of earth 4 ft. base, 2 ft. high. W. of the corner. Can refly: Paid sandy for timber dense and agree 2 ft. EAST, on a true line on the South boundary of Sec. 36. Over rolling sand dunes. Through dense canotillo brush. 3.00 Wood road bears N. W. and S. E. Leave dense undergrowth bears // easterly and south-westerly: 35.00

40.00

(Concluded). The Eighth Standard Parallel N., Through  $\hat{R}_{\bullet}$  10 E. thence over solid rolling sand dunes. chs. Difference between measurements of \$0.00 chs., by two sots of chairmen is 12 lks., position of middle point By 1st set, 39.94 chs.

By 2nd set, 40.06 chs., the mean of which is

Set a limestone, 18 x 6 x 5 ins., 12 ins., in the

ground for standard 1/4 sec. cor., marked 3 C 1/4 on
the N. face; raised a mound of stone, 2 ft. base, 1
1/2 ft. high, N. of the corner.

Leave rolling sand-duoned, bears N. W. and S. E.
Difference between measurements of 80. chs., by two
sets of chainmen is 8 1ks., position of middle point 40,00 6 60.00 sets of chainmen is 8 1ks., position of middle point By 1st set, 39.96 chs.,

By 2nd set, 40.04 chs., the mean of which is

Set a limestone, 18 x 6 x 5 ins., 12 ins., in the ground

for the Standard Corner to Tps. 33 N., Rs. 10 and 11 80,00 t. E., marked .SCT 33 N on the N v R 11 E on the E R 10 E., on the W. faces; with 6 grooves on the N., E., and W. faces; dig pits, 30 x 24 x 12 ins., crosswise of each line, E. and W. 4ft. and N. of stone 8 ft. dist., and raise a mound of earth 5 ft. base, 2.1/2 ft. high, N. of the corner. Land rolling. Soil sandy and rocky: 4th rate. No timber: undergrowth canotillo brush. Dense undergrowth 35.00 chs. The Eighth Standard Parallel North, Through R. 11 E. EAST, on a true line on the south boundary of Sec. 31. Over rolling sand dunes. Difference between measurements of 40. chs., by two sets of chainmen is 10 lks., position of middle point By 1st set, 39.95 chs., By 2nd set, 40.05 chs. the mean of which is
Set a dimestone, 20 x 7 x 5 ins., 15 ins., in the ground
for standard 1/4 sec. cor. marked S C 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 1/2 ft. base
1 1/2 ft. high, N. of the corner.
Difference between measurements of 80 chs. by two 40.00 Difference between measurements of 80. chs., by two sets of chainmen is 8 lks., position of middle point

By 1st set, 9.96 chs.,

By 2nd set, 0.04 chs., the mean of which is

Set a limestone, 18 x 6 x 5 ins., 12 ins., in the ground

for the standard corner to secs. 31 and 32, marked

S C on the H. face, with 1 groove on the W., and 5

grooves on the F. faces: dig pits. 24 x 18 x 12 ins. 80,00 grooves on the F. faces: dig pits, 24 x 18 x 12 ins., crosswise, on each line, E. and W. 3 ft. dist., and N. of stone, 7 ft. dist., and raise a mound of earth, 4 ft. base, 2 ft. high, N. of the corner. Land rolling. Soil sandy; 4th rate.

No timber.

- 0 -EAST, on a true line on the south boundary of Sec. 32. Over rolling sand-dunes. Difference between measurements of 40. chs., by two sets of chainmen is 10 lks., position of middle point

By 1st set, 39.95 chs.,

By 2nd set, 40.05 chs., the mean of which is

Set a limestone, 18 x 12 x 5 ins., 12 ins., in the ground

for standard 1/4 sec. cor. marked S C 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 1/2 ft. base, 1 1/2 ft. high, N. of the corner.

Difference between measurements of 80 chs., by two
 Chs.
      0-1-
                    Difference between measurements of 80 chs., by two sets of chainmen is 10 lks., position of middle point By 1st set, 79.95 chs.,

By 2nd set, 80.05 chs., the mean of which is set a limestone, 18 x 6 x 5 ins., 12 ins., in the ground for the corner to sections 32 and 33; marked S C on the N. face, with 2 grooves on the W., and 4 grooves on the E., edges; dig pits, 24 x 18 x 12 ins., crosswise, on each line, E. and W. 3 ft. dist. and N. of stone, 7 ft. dist., and raise a mound of earth 4 ft. base, 2 ft. high, N. of the corner.

Land rolling.

Soil, sandy: 4th rate.

No timber; undergrowth sage and canotillo brush.

Dense undergrowth 40.00 chs.
 80,00
                     Dense undergrowth 40.00 chs.
                                                                                                                   April 16th, 1905.
                                                                   at 74.30m A.M.
                    April 17th, 1905- at the corner just previously set by me I set off 36° 13° N., on the lat. arc., and 10° 24° N., on the deel. arc and determine a meridian with the solar. Thence I run,
                     EAST, on a true line on the south boundary of Sec. 33.
                     Over rolling sand banks.
                     Through dense sage brush.
                     Difference between measurements of 40. chs., by two
                     sets of chainmen is 10 lks., position of middle point
                                   By 1st set, 39.95 chs.,
                   By 2nd set, 40.05 chs., the mean of which is Set a limestone, 18 x 6 x 5 ins., 12 ins., in the ground for standard 1/4 sec. cor. marked 3 C 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 1/2 ft. hagh, 1 1/2 ft. high, N. of the corner.
40.00
                    Difference between measurements of 80. chs., by two sets
                   of chainmen is 8 lks., position of middle point

Bymlst set, 80.04 chs.

By 2nd set, 39.96 chs., the mean of which is

Set a limestone, 18 x 6 x 5 ins., 12 ins., in the ground

for the standard corner to sections 33 and 34, marked

S C on the N. with 3 grooves on the M. and W. faces;

dig pits, 24 x 18 x 12 ins., crosswise, on each line

E. and W. 3 ft. dist., and N. of stone 7 ft., and raise

a mound of earth & ft. base, 2 ft. high, N. of the Cor.

Land rolling.
80,00
  0 1
                   Land rolling.
                    Soil, sandy: 4th rate.
                   No timber: undergrowth; sage brush. Dense undergrowth 80.00 chs.
                   EAST, on a true line on the south boundary of Sec. 34.
                   Over sand ridges.
                   Through dense sage brush.
 27.00 Leave sand banks and sage brush; thence over sand-stone
                   ledges and ridges.
                   Difference between measurements of 40. cha., by two
Difference between measurements of 40. chs., by two set of chainmen is 14 lks., position of middle point

By 1st set, 39.93 chs.

By 2nd set, 40.07 chs., the mean of which is

40.00 Set a limestone, 18 x 6 x 5 ins., 12 ins., in the

ground for the standard 1/4 sec. cor. to sec. 34, marked

3 C 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 1/2 ft. base, 1 1/2 ft. high, N. of the cor.

Difference between measurements of 80. chs., by two
```

sets of chainmen is 16 lks., position of middle point

	Continued
Chs.	By 1st set, 39,92 chs.,
V	The One and All On the All and a second
	By 2nd set, 40.08 chs., the mean of which is
80.00	Set a limestone, 18 x 6 x 5 ins., 12 ins., in the ground
1	for the standard corner to sections 34 and 35 marked
	Tot the standard corner to sections 34 and 35 marked
	with S C on the N. face, and 4 grooves on the W. and
7	2 grooves on the E. faces; and raise a mound of stones,
1	2 ft. base, 1 1/2 ft. high, N. of the corner.
	s 10 page, T T/s 10 HIGH, No OI the Corner.
1.	Pits impract.
	Land mountainous and rolling.
	Soil, sandy and rocky; 3rd and 4th rate.
	No timber; undergrowth sage brush.
1	Hountainous or land covered with dense undergrowth,
1.	80.00 chs.
	O's CC Ons
	Apply and the state of the stat
	EAST, on a true line on the south boundary of Sec. 35.
	Over rolling sand banks.
1	Difference between measurements of 40. chs., by two
	set of chairmen is 6 lks., position of middle point
	By 1st set, 39.97 chs.,
	Dr Cod and 44 Am the About a constant
10 00	By 2nd set, 40.03 chs, the mean of which is
40.00	Set a limestone, 18 x 6 x 5 ins., 12 ins., in the ground
1 6	for standard 1/4 sec. cor. marked S C 1/4 on the H.
	face; dig pits, 18 x 18 x 12 ins., E. and W. of stone,
	7 ft diet and mains a married at and a single of
	3 ft. dist., and raise a mound of earth, 3 1/2 ft. base,
	1 1/2 ft. high, N. of the corner.
	Difference between measurements of 80 chs., by two sats
	of chairmen is 8 lks., position of middle point
	Dr. Let act 90 OC/ohe
	By 1st set, 79.96 chs.,
	By 2nd set, 80.04 chs., the mean of which is
80.00	Set a limestone, 18 x 6 x 5 ins., 12 ins., in the
	ground for the standard corner to sections 35 and 36.
	resulted C C with 5 charge on the W and By manager
	marked S C with 5 grooves on the W. and groove on
	the L. fages: dig pits, 24 x 18 x 12 ins., crosswise,
	on each line, 4 ft. and N. of stone, 7 ft. dist., and
	raise a mound of earth 4 ft. base, 2 ft. high, N. of
	4h. Someone of out off 4 To, base, 2 I to fitting he of
	the corner.
	Land gently rolling.
	Soil, sandy; 4th rate.
	No timber.
	TIA CONT. CONT. O. Acres 12 American Alberta Cont.
	EAST, on a true line on the south boundary of sec. 36.
	Over sandstone ridges.
28.00	Leave sandstone ridges; thence over rolling sand banks.
	Difference between measurements of 40, cha., by two
	ALLES STOP SO MOST BEAUTION OF 40, CHS., Dy 600
	sets of chainmes is 10 lks. position of middle point
ا به یو	By 1st set, 39.95 chs.,
'	By 2nd set 40 65 chc the mean of which is
40.00	Sat a limestana 18 v 6 v 4 /inc 10 inc in the
	wanted for otondond 2/4 man market at 1100 till
014	ground for scandard 1/4 sec. cor. marked S C 1/4 on
	Set a limestone, 18 x 5 x 4 /ins., 12 ins., in the ground for standard 1/4 sec. cor. marked 8 C 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,
	of stone, 3 ft. dist., and raise a mound of earth.
	3 1/2 ft. base, 1 1/2 ft. high, N. of the cor.
80.00	Cat a limagiona on a o a simple of one of the
1	Set a limestone, 20 x 8 x 5 ins., 15 in ., in the ground
RP .	for the standard corner to Tp. 33 N., Rs. 11 and 12
	E., marked
	S C T 33 N on the N.
6	R 12 E on the E.
}	
	R. 11 on the W. faces; with 6 grooves on the N.
	E. and W. Regesidig pits, 30 x 24 x 12 ins., crosswise,
1	on each line, E. and W. 4 ft., and N. of stone, 3 ft.
'	dist, and raise a mound of earth 5 ft. base, 2 1/2 ft.
	high, N. of the Cor.
1	Land mountainous and rolling.
] 1	Soil sandy; rocky and 4th rate. No timber.
'-	Mountainous land 28,00 chs.
1	Note- The difference between measurements of 80. chs.
1 . 1	his two data of chairman to the new comments of the
	by two sets of chainmen to the sec. cor. pt. was 14 lks.
	By 1st set, 80.07 chs., By 2nd set, 39.93 chs.
1	

From the Cor. to Tps. 33 N., Rs. 11 and 12 E., just previously established by me, Chs. I run, EAST, on a true line on the south boundary of Sec. 35. Over rolling sand. Through dense sage brush. Difference between measurements of 40.00 chs., by two sets of chainmen is 10 lks., position of middle point By 1st set, 40.05 chs.

By 2nd set, 39.95 chs., the mean of which is

Set a limestone, 18 x 6 x 5 ins., 12 ins., in the

ground for standard 1/4 sec. cor. marked 3 C 1/4 on
the N. face; dig pits, 18 x 18 x 12 ins., E. and W.

of stone 3ft. dist., and raise a mound of earth 3 1/2
ft. base, 1 1/2 ft. high, N. of the corner.

Difference between measurements of 80. chs., by two
set of chainmen is 8 1ks., position of middle point

By 1st set. 79.96 chs. 40.00 ell By 1st set, 79,96 cha.

By 2nd set, 80,04 chs., the mean of which is

Set a limestone, 20 x 7 x 5 ins., 15 ins., in the

ground for standard corner to secs. 31 and 32. marked

S C on the N., with 1 groove on the W., and 5 grooves

on the E. faces; dig pits, 24 x 18 x 12 ins., crosswise,

on each line, 3 ft. dist., and N. of stone 7 ft. dist.,

and reice a mound of earth. 4 ft: base. 2 ft. high. 80.00 ot. and raise a mound of earth, 4 ft. base, 2 ft. high, No of the corner. Land rolling. Soil sandy: 4th rate. No timber; undergrowth sage and canotillo. Dense undergrowth; 80,00 chs. EAST, on a true line on the South boundary of Sec. 32. Over rolling land. Through dense sage brush. Dufference between measurements of 40. chs., by two sets of chairmen is 8 1km., position of middle point By 1st set, 39.96 chs.,

By 2nd set, 40.04 chs., the mean of which is

Set a limestone, 18 x 6 x 1/2 ins., 12 ins., in the

ground for standard 1/4 sec. cor., marked S.C. 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 1/2

ft. base, 1 1/2 ft. high, N. of the cor.

Difference between measurements of 80.00 chs., by two

sets of chairmen is 6 lks., position of middle roint 40.00 sets of chainmen is 6 lks., position of middle point

By 1st set, 79.97 ch.,

By 2nd set, 80.03 chs., the mean of which is

Set a limestone, 18 x 6 x 5 ins., 12 ins., in the ground for the standard corner to sec. 32 and 33, marked 8 C on the N., with 2 grooves on the V., and 4 grooves on the E. faces: dig pits, 24 x 18 x 12 ins., crosswise, on each line, 3 ft. dist., and N. of stone, 7 ft. dist., and raise a mound of earth, & ft. base, 2 ft. high, N. of the corner.

Land rolling.

Soil, sandy: 4th rate. 80.00 OK. Soil, sandy: 4th rate. No timber: undergrowth sage brush. Donse undergrowth 80.00 chs. April 17th, 1905. April 18th, 1905- At the corner just previously set and described by me I set off 36° 13° N., on the lat arc, 10° 45° N., on the decl. arc, and at 7 hours, 28 1/2 minutes, a. m., l. m. t., I determine a meridian with the solar. Thence I run, EAST, on a true line on the south boundary of Sec. 33. Over rolling land.

Through dense sage brush.

The Eighth Standard Parallel North, Through R. 12 E. Continued.

	Continued
Chs.	Difference between meaning
021.5	Difference between measurements of 80.00 chs., by two
	sets of chainmen is 10 lks., position of middle point By 1st set, 39.95 chs.,
	By 2nd not 40 05 obs
40.00	By 2nd set, 40.05 chs., the mean of which is
1	Set a limestone, 18 x 6 x 5 ins., 12 ins., in the ground
101	I THE THE TOTAL OUTS HELECUL OF USING DIE THE NOTE AND AND
	pits, 18 x 18 x 12 ins., E. and W. of stone, 3 ft.
1	dist, and raise a mound of earth, 3 1/2 ft. base, 1 1/2 ft. high, N. of the corner.
	Pifference octwoon monethment as as
	Difference between measurements of 80. chs., by two
	sets of chainmen is 8 lks.; position of middle point, By lst set, 80.04 chs.
1	The Dark was MA DAV
80.00	Set a limestone, 18 x 6 x 5 ins., 12 ins., in the ground
	for the standard corner to secs. 33 and 34, marked
	S C on the N., with 3 grooves on the E. and W. faces;
	dug pits, 24 x 18 x 12 ins., crosswise, on each line,
	E. and W., 3 ft. and N. of stone, 7 ft. dist., and
	raise a mound of earth, 4 ft. base, 2 ft. high, N. of
	ine corner.
	Land rolling.
	Soil, sandy: 4th rate.
	No timber; undergrowth sage brush.
	Dense undergrowth: 80.00 chs.
·	
	EAST, on a true line on the south boundary of Sec. 34.
	Over rolling land; through dense sage hough
28.36	ROSC DOSTS NOTTH-OSSTORIV and south-westerly
	DITTOROG Detwoon measurements of 40 charby two
	sous of chainmen is 8 iks. position of middle noint
	By 1St Set, 40.04 Chs.
	By 2nd set, 39.96 cha., the mean of which is
40.00	Set a 11 estone, 18 x 6 x 4 1/2 ing . 12 ing . in the
e/-	I RIVURE FUE SERBORIO IIA SEC. POP. MONEGO CO 1/4 Am
	long we have dig pits, 18 x 18 x 12 ins. E. and W.
	lor goods, or to distal and raise a mound of earth
40 00	3 1/2 ft. base, 1 1/2 ft. high, N. of the cor.
42.00	Leave dense sage brush, bears easterly and westerly;
	house bears about 25 chs. N.
	Difference between measurements of 80. chs., by two-
	sets of chainmen is 4 lks., position of middle point,
İ	By 1st set, 19.98 chs.
80.00	By 2nd set, 40.02 chs., the mean of which is
1 -	Set a limestone, 20 x 7 x 4 ins., 15 ins., in the
CK.	ground for the standard corner to sections 34 and 35, marked S C on the N. with 4 grooves on the W. and 2
	grooves on the E. faces dug pits, 24 x 18 x 12 ins.
	E. and W. 3 ft. dist., crosswise on each line, and N.
	of stone, 7 ft. dist., and raise a mound of earth,
	4 ft. base, 2 ft. high, N. of the cor.
	Land gently rolling.
	Soil, sandy and rocky; 4th rate.
7	No timber; undergrowth sage brush.
*	Dense undergrowth: 42.00 chs.
	ويين منيد وين هيچينين هيان منيد اول هيل منيد بين منيد مني منيد مني منيد وي
	EAST, on a true line on the south boundary of Sec. 35.
İ	Over gently rolling land.
	Difference between measurements of 40, chs., by two
	sous of chainmen is 8'iks. position of middle noint .
	By IST Set, 40,04° chs.
40.00	By 2nd set, 39.96 chs., the mean of which is
	oou a limestone. is x b x b ing 12 ing. in the
OK OK	ground or standard 1/4 sec. cor. marked S C 1/4 on
-43	the No Table Cig pits. 18 x 18 x 12 ing. R. and W
	of stone, 3 ft. dist. and raise a mound of earth,
	3 1/2 ft. base, 1 1/2 ft. high, N. of the cor. Difference between measurements of 80. chs., by two
	sets of chainmen is 6 lks., psition of middle point
	or or organism is o iva, barrion or middle boint
1	

( Concluded.) The Eighth Standard Parallel North, Through R. 12 E.

Chs.

**\$0.00** 

No timber.

By 1st set, \$9.97 chs.,

By 1st set, 19.97 chs.,

By 2nd set, 10.03 chs., the mean of which is

Set a limestone, 18 x 6 x 5 ins., 12 ins., in the ground

for the standard corner to secs. 35 and 36, marked

S C on the N., with 1 groove on the E., and 5 grooves

on the W. faces; dig pits, 24 x 18 x 12 ins., crosswise,

on each line, E. and W., 3 ft. dist., and N. of stone

7 ft. and raise a mound of earth 4 ft. base, 2 ft. high,

N. of the cor.

Land gently rolling.

Soil. sandy: 4th rate. Soil, sandy: 4th rate.

EAST, on a true line on the south boundary of Sec. 36. Over gently rolling land. Difference between measurements of 40. chs. sets of chainmen is 10 lks., position of middle point

40,00 rK

By 1st set, 40.05 chs.,

By 2nd set, 39.95 chs., the mean of which is

Set a limestone 18 x 6 x 5 ins., 12 ins., in the ground

for standard 1/4 sec. cor. marked S C 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 1/2 ft.

base, 1 1/2 ft. high, N. of the cor.

Difference between measurements of 80. chs. by two Difference between measurements of 80. chs., by two sets of chainmen is 8-1ks., position of middle point

80.00

6/3

By 1st set, 80.04 chs.

By 2nd set, 79.96 chs., the mean of which is

Set a limestone, 20 x 7 x 5 ins., 15 ins., in the

ground for the standard cor. to Tps. 33 N., Rs. 12 and 13 E., marked S C T 33 N on the N,

R 13 E on the E,

R 12 E on the W. faces: with 6 grooves on the N. E. and W. faces: dig pits, 30 x 24 x 12 ins., crosswise, on each line, E. and W. 4 ft. and N of stone 8 ft. dist. and raise a mound of earth, 5 ft. base, 2 1/2 ft. high, N. of the Cor. Land rolling. Soil sandy and rocky; 4th rate. No timber.

· X

April 18th, 1905.

Ceneral Description.

Through Rs. 9 and 10 E., this line runs across sandstone cliffs and over deep rocky canons, while sandridges and sandstone ledges are traversed through Rs. 11 and 12. There are scattering cedars in R.s 9 and 10. There is no water on the line except a spring branch in R. 9 E. The soil is mostly sand and sand stone and there is very little grass.

In the survey of this standard neither NOTEthe tangent or secant method was employed for the reason that the line was projected from true meridians deter. at intervals of from 15 to 20 chs, along the line of survey.

> Surveyor 6 S. Deputy

april 18, 1905.

At this Cor. at noon I set off 10° 48' N. on the decl. arc, and observe the sun on the meridian, the resulting lat. being 36° 13' N.

BOOK 1860

LIST	OF NAMES.
A list of the names of the individuals emp	ployed by Philip Cantzen
	tes Deputy Surveyor, to assist in running, measuring, and
marking the lines and corners described in the fo	oregoing field notes of the survey of
Thandard Carallel II	1. Ks. 9-10-11-12 6
showing the respective capacities in which they	acted:
	Man S. Lenglo, Chainman.
	Frech Jacks, Chainman.
	Tourse J. Hawley, Chain Moundman.
£	Jewiffe J. Hawlly, Moundman.
	Letrick, Moundman.
	Mullian Moundlinan Amman
	Chi a Car
	Manuel Galazar, Axman.
	James J. Sully, Flagman.
FINAL OATH	OF ASSISTANTS
We hereby certify that we assisted	Philip (Oursen
	United States Deputy Surveyor, in surveying all
hose parts or portions of the	Than clay of Carallel II
No. 9-10-11-12	
	of the Lile 3
At River meridian, Ve	
	reyed by him and under his direction; and that said survey
has been in all respects, to the best of our known	lowledge and belief, well and faithfully surveyed, and the
	he instructions furnished by the United States Surveyor
General for Chilana	
$\mathcal{O}$	M. Skengla, Chainman.
	2 10 A D
	Chairman.
	George J. Hawles Moundman.
	Meny Moundman.
	Moundman D Moundman
	(In Unit C'o Gul, Arman.
	Manuel Salazar, Axman.
	James B. Bales Flagman.
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Subscribed and sworn to before me this/0/h	<u>"</u>
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The foregoing field notes of the survey of the Eight Standard Paralle	<u> </u>
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executed by Lip Contract No. 124 detail Necember 12 1908, havi	
under his contract No. 124 dated Neember 124 1905, havi	ng been
critically examined, and the necessary corrections and explanations made, the said field notes,	and the
surveys they describe, are hereby approved.	/
Hant dengalle	/
United States Surveyor (	${\it Feneral}.$
Toomtify that the foregoing transcript of the C. 11.	
r certify that the foregoing transcript of the field notes of the above described surveys in	
, has been correctly copied from the original notes on file in this	office.