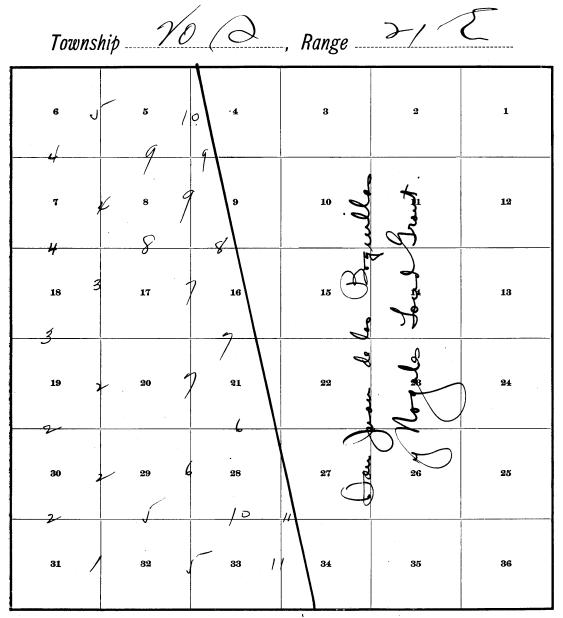


# FIELD NOTES

OF THE SURVEY OF THE
Suldivisional Line Fre J. 70 D PM &
2279
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22'79
Of the Or Of Meridian,
. Chimnea
AS SURVEYED BY
Julal, United States Deputy Surveyor,
Under his Contract No. 63, dated May 16, 19/0
Survey commenced, 19/0
Survey completed, 1910

	NAM	ES AND DU	TIES OF	ASSISTAN	rs.	D
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# INDEX DIAGRAM.



Meanders Page .....

6—151

BOOK 2279	- Der Of O
WE,	and
chain upon even and uneven ground, and plumb we will report the true distances to all notable measuring, to the best of our skill and ability, a	fully execute the duties of chainmen; that we will level the the tally pins, either by sticking or dropping the same; that e objects, and the true lengths of all lines that we assist in and in accordance with instructions given us, in the survey of
	, Chainman
	, Chainman
Subscribed and sworn to before me this, 19	
※変変素素 ※) SEAL (※) ※変変変素素	
Wa	and
do solemnly swear that we will well and tru of corners, according to the instructions give	aly perform the duties of moundmen in the establishment in us, to the best of our skill and ability, in the survey of
	, Moundman
	, Moundman
Subscribed and sworn to before me this	<del></del> }
day of, 19	}
W SEAL (W)	
WE,	and
do solemnly swear that we will well and truly pand other duties, according to instructions give	perform the duties of axmen in the establishment of corners en us, to the best of our skill and ability, in the survey of
	, Axman.
•	, Axman.
Subscribed and sworn to before me this	
day of, 19	}
******  ** SEAL (**  *******	- <del></del>
perform the duties of flagman according to inst	tructions given me, to the best of my skill and ability, in the
survey of	
	, Flagman.
Subscribed and sworn to before me this	(
day of, 19	<u>,                                      </u>

PRELIMINARY OATHS OF ASSISTANTS.

Survey commenced Dec. 3rd, 1910, and executed with a Blount & Co. Transit, No. 601, previously described, (See Exterior Lines, T. 9 S., R. 31 E.).

I examine the adjustments of the transit which I find to be in good condition.

Then to test the solar apparatus by a comparison of its indications with a meridian established by Polaris obs., I proceed as follows:-

At my camp, situated within a few hundred feet, East of the 18 mile corner on the W. bdy. of the San Juan de las Boquillas y Nogales Private Land Grant in lat. 31.41.46 N long. 110.13.24 Was near as I can determine; I set off 22.03 S. on the decl. arc. 58.18 on the co-lat. arc and at 4h, p. m., l. m. t., determine a meridian with the solar and mark a point thereof on a stone, firmly set in the ground, 5 chs. N. of my station.

Dec 324. 1910

Dec. 4th: - At 2h 36.0 m., by my watch, set to 1. m. t., I obs. Polaris at Western Elongation, in accordance with the Manual of Instructions and mark a point in the line thus determined, on a peg driven in the ground, 5 chs. N. of my station.

At 8h, a. m., l. m.t., I set off the azimuth of Polaris, 1°23' to the East, and mark a point in the meridian thus determined by a small groop on the stone already set 5 chs. N. of my station. This point falls 0.1 m E. of the mark determined by the solar.

At 8h 10m. a. m., l. m. t., I set off 22°8½°S. on the decl. arc, 58°18° on the co-lat. arc, and determine a meridian with the solar and mark a point in the line thereof on the stone already set 5 chs. N. of my station.
This point falls 0.2 E. of the point determined by the
Polaris obs.

The solar apparatus by p. m. and a. m. obs. defines the positions for meridians, 5" W. and 11" E. of the point as determined by the Polaris Obs. therefore I conclude that the adjustments of the instrument is satisfactory.

The magnetic variation of the true meridian at 8h20m a. m., is N.13°11'W.; the angle thus determined gives the mag. decl. 13°11'E.

Deo. 4th, 1910.

Dec. 6th:

From the Standard corner of secs. 31 and 32, a red-wood post, properly marked and witnessed as described by the Surveyor General. I run N.0°1'E bet. secs. 31 and 32 over rolling ground through greasewood brush.

40.00

75.00 80.00 Set a sandstone, 12x7x6 ins., 8 ins. in the ground for the sec. cor., mkd. \$\frac{1}{2}\$ on \$W\$. face, and raise a mound of stone, 2 ft. base, 1\$\frac{1}{2}\$ ft. high, \$W\$. of cor.

Arroyo, 50 lks. wide, course \$N.85 \inc E\$.

Set a granite stone, \$15x9x5\$ ins., 10 ins. in the ground for the cor. of secs. 29, 30, 31 and 32, mkd. with 1 notch on the \$S\$. and 5 notches on the \$E\$. edge, and raise a mound of stone, 2 ft. base, 1\$\frac{1}{2}\$ ft. high, \$W\$. of cor.

Land rolling. Soil 3rd rate. Greasewood brush.

West on a randomline bet. secs. 30 and 31.

# Subdivisional Lines of Fracl. T. 20 S., R. 21 E.

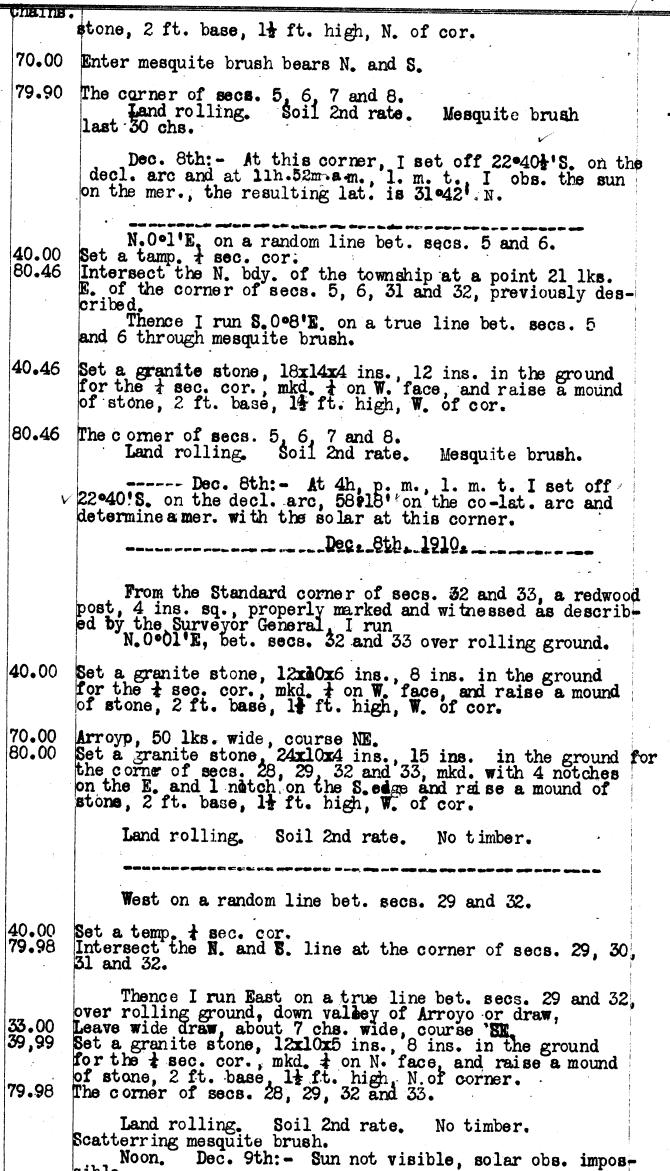
Chains.	
40.00 80.22	
	S. of the cor. of secs. 25. 30. 31 and 36. a sandy limestone
	9x8x5 ins. above ground, properly marked and witnessed as described by the Surveyor General.
	Thence I run, S.89.48 E. on a true line bet. secs. 30 and 31
	over rolling ground.
1.80	Arroyo, 50 Iks. wide, course N.65°E.
10.20 14.22	Same arroyo, S.75°E. Ascend
20.00	Point of little ridge, runs back South. Descend.
40.11	Above Arrayo, S.65°E. Set a norphry stone 15x10x8 ins. 10 ins. inthe ground
	Set a porphry stone, 15x10x8 ins., 10 ins. inthe ground for the 2 sec. cor., mkd. 2 on N. face, and raise a
	mound of stone, 2 ft. base, 1 ft. high, N. of cor.
58.25	Noon, Dec. 6th: -Sky over-cast, solar obs. impossible. Read bears N. 10°E. and S. 10°W.
80.22	The corner of secs. 29, 30, 31 and 32.
	The corner of secs, 29, 30, 31 and 32.  Land rolling. Soil 3rd rate. Greasewood brush.
-	N.0º1'E. bet. secs. 29 and 30 over level ground.
22.50	Pood heers MF and CW
40.00	Set a porphry stone, 24x12x12 ins., 18 ins. in the ground for the + sec. cor., mkd + on W face, and raise a mound
40.00	Set a porphry stone, 24x12x12 ins., 18 ins. in the ground for the # sec. cor., mkd. # on W. face, and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.  Little carroyo, 10 lks. wide, course E.  Thence ascending over rough and rocky ground.
40.20	Thence ascending over rough and rocky ground.
80.00	Set a porphry stone, 14x6x6 ins., 10 ins. in the ground for
	on the S. and 5 notches on the E. edge. and raise a mound
	of stone, 2 ft. base, 12 ft. high, W. of cor.
٠.	Thence ascending over rough and rocky ground.  Set a porphry stone, 14x6x6 ins., 10 ins. in the ground for the cor. of secs. 19, 20, 29 and 30, mkd. with 2 notches on the S. and 5 notches on the E. edge, and raise a mound of stone, 2 ft. base, 12 ft. high, W. of cor.  Tand level first forty chs. and rough and rocky last forty chains. Soil 2nd, 3rd, and 4th rate. No
	UIMDET.
	Dec. 6th: - At 3h, p. m., l. m. t., I set off 22°27'S. on the decl. arc, 58°20' on the co-lat. arc and
	determine a mer. with the solar at this cor.
	N.89 48 W. bet. secs. 19 and 30 on a random line.
40.00	Set temp. 1 sec. cor.
80.00	Intersect the W. bdy. of the township at a point 9 lks. N. of the cor. of secs. 25, 24, 19 and 30, a brownish
,	stone, 10x10x6 ins. above ground, properly marked and witnessed as described by the Surveyor General.
	Thence I run S.89°52'E. on a true line bet. secs. 19
40.00	and 30, Set a porphry stone, 12x10x6 ins., 8 ins. in the ground
2000	Ior the # sec. cor., mkd. # on N. Tace, and raise a mound
	of stone, 2 ft. base, 12 ft. high, 16 of cor.
	Ascend gradually.
71.50	Top of high rocky ridge bears N. and S., descend over
	rough and rocky ground.
80.00	The cor. of secs. 19, 20, 29 and 30.
	Land rolling, in places rough and rocky. Soil 3rd rate. No timber. Last & mile or 40 chs. mountainous.
	Dec. 6th, 1910.
·	
	N Colle hat sees 10 and 20 area would made
	N.0°1°E. bet. secs. 19 and 20 over rough rocky ground.

### Subdivisional Lines of Fracl. T. 20 S., R. 21 E.

		Subdivisional Lines of Fract. T. 20 S., R. 21 E.
(	lhai ns .	Ascending.
		Ridge bears NE. and SW. Descend. Set a basaltic stone, 15x9x6 ins., 10 ins. in the ground for the \$\frac{1}{2}\$ sec. cor., mkd. \$\frac{1}{2}\$ on W. face, and raise a mound of stone, 2 ft. base, 1\$\frac{1}{2}\$ ft. high, W. of cor. Ascend.
	<b>46.0</b> 0 60.00	Ridge bears E. and W. Descend. Ascend
	80.00	Set a basaltic stone, 15x9x6 ins., 10 ins. in the ground for the cor. of secs. 17, 18, 19 and 20, mkd. with 3 notches on the S. and 5 notches on the E. edge, and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.  Land mountainous. Soil 3rd rate. No timber.
		N.89°52'W. on a random line bet. secs. 18 and 19.
	40.00 80.14	Set a temp. 1 sec. cor. Intersect the W. bdy. of the township at a point 21 lks. S. of the cor. of secs. 13, 18, 19, and 24, a granite stone 8x6x4 ins. above ground, properly marked and witnessed as described by the Surveyor General. Thence I run, S.89.43 E. on a true line bet. secs. 18 and 19.
	2.64 6.15 40.07	Road bears N. and S. Arroyo, 50 lks.wide, course NE. Set a porphry stone, 17x6x6 ins., ll ins. in the ground for the # sec. cor., mkd. # op N. face and raise a mound of stone, 2 ft. base, lt ft. high, N. of cor.
	70.15	Draw 50 lks. wide, course NEly. Thence over rocky ground.
	77.65 80.14	Little ridge bears NE. and SW. Descend. The corner of sections, 17, 18, 19 and 20.
		Land rolling. Soil 3rd rate. NO Timber
	,	Dec. 7th: - At this corner, I set off 22°34'S. on the decl. arc, and at 11h.5km a. m., l. m. t., obs. the sun on the mer., the resulting lat. is 31°41'. N.
		N.0001 E. et. secs. 17 and 18, ascending.
	4.00	Ridge bears NE. and SW. Descend.
	20.00	Arroyo, 50 lks. wide, course NW. Ascend.
	<b>3</b> 8.00 <b>4</b> 0.00	Top of ridge runs back NE. Set a basaltic stone, 15x10x4 ins., 10 ins. in the ground for the # sec. cor., mkd. # on W. face, and raise a mound of stone, 2 ft. base, 12 ft. high, W. of cor.
		Descend. Fence bears NE. and SW. Telegraph line bears NE. and SW. Descend slope of 36° into little box canon. Single track, Southern Pacific bars NE. and SW.
	65.25 65.45 67.50	Single track, Southern Pacific ears NE. and SW. Fence bears NE. and SW. BabocomeriCreek, 20 lks. wide, 6 ins. deep, clear water, Course NE. Ascend precipitous bluff, bears NE. and SW.
	74.00	Top of same bears NE. and SW,
	80.00	Set a granite stone, 12x10x8 ins., 8 ins. in the ground for the corner of sections 7, 8, 17 and 18, mks. with 4 grooves on the S. and 5 grooves on the E. faces and raise

Subdivisional Lines of T. 20 S., R. 21 E.

	Subdivisional Lines of 1. 20 S., R. 21 E.
Chains.	a mound of stone, 2 ft. base, 1 ft. high, W. of cor.  Land mountainous. Soil 4th rate. No timber.
V	Dec. 7th:- At 3h, p. m., l. m. t., I set off 22°34½'S. on the decl. arc, 58°18'/ on the co-lat. arc and determine a mer. with the solar at this corner.,
	N.89°43'W. on a random line bet. secs. 7 and 18.
40.00 80.00	Set a temp. 1 sec. cor. Intersect the W. bdy. of the township at a point 3 lks. N. of the corner of secs. 7, 12, 13 and 18, a porphry stone, 12x8x4 ins. above ground, properly marked and witnessed as described by the Surveyor ceneral.
	Thence I run S.89.44 E. on a true line bet. secs. 7 and 18 over rolling ground, through mesquite brush.
40.00	Set a porphry stone, 15x6x6 ins., 10 ins. in the ground, for the 1 sec. cor., mkd. 1 on N. face, and raise a mound of stone, 2 ft. base, 11 ft. high, N. of cor.  House of Ramon Yesus bears South about 10 chs. dist. and the Ranch of Ramon Escudero, S.47 W. about 40 chs. dist. dist.
40.25 41.00	Leave mesquite brush, bears NE. and SW. Road bears NE. and SW. Telephone line bears NE. and SW. Road bears NE. and SW. Ascend gradually.
76.00 <b>80.0</b> 0	Top of ascent, bears N. and S. The corner of secs. 7, 8, 17 and 18.
	Land rolling. Soil 2nd rate. Mesquite brush first half mile.  Dec. 7th, 1910.
~	N.001 E. bet. secs. 7 and 8 over rolling ground.
25.75 33.00 40.00	Road bears NE. and SW. Telephone line bears NE. and SW. Set a basaltic stone, 15x6x6 ins., 10 ins. in the ground for the # sec. cor., mkd. # on W. face, and raise a mound of stone, 2 ft. base, 1 ft. high, W. Of cor.
53.65 80.00	Road bears E. and W. Enter mesquite brush bears E. and W. Set a granite stone, 12x9x6 ins., 8 ins. in the ground for the corner of secs. 5, 6, 7 and 8, mkd. with 5 notches on the S. and E. edges and raise a mound of stone, 2 ft. base, 1; ft. high, W. of cor.  Tand rolling. Soil 2nd rate. No timber.  Mesquite brush on last half mile.
	N.89°44°W. on a random line bet. secs. 6 and 7.
40.00 79.90	Set a temp. 1 sec. cor. Intersect the W. bdy. of the township at a point 3 lks. N. of the corner of secs. 1, 6, 7 and 12, which corner is a granite stone, 5x4x4 ins. above ground, properly marked and witnessed as described by the Surveyor General.
<b>39.</b> 95	Thence I run, S.89.45 E. on a true line bet. secs. 6 and 7 over rolling ground. Set a granite stone, 15x7x6 ins., 10 ins. in the ground for the 4 sec. cor., mks 4 on N. face, and raise a mound of



115

## Subdivisional Lines of Fracl. T. 20 S., R. 21 E.

•		Subdivisional Lines of Fract. T. 20 S., R. 21 E.
	hains.	N.0°1°E bet. secs. 28 and 29 over rolling ground.
	40.00	Set a granite stone, 12x8x6 ins., 8 ins. in the ground for the 1 sec. cor., mkd. 1 on W. face, dig pits, 18x18x12 ins.  END and Wast of corner, 3 ft. dist. and raise a mound of earth, 31 ft. base, 11 ft. high, W. of cor.
	80.00	Set a granite stone, 12x8x6 ins., 8 ins. in the ground for the corner of secs. 20, 21, 28 and 29, mkd. with 2 notches on the S. and 4 nothhes on the E. edge, and raise a mound of stone, 2 ft. base, 1 ft. high, W. of cor.  Land rolling. Soil 2nd rate. No timber.
		Dec. 9th: At 3h, p. m., l. m. t., I set off 22°47°S. on the decl. arc, 58°20° on the co-lat. arc and determine a mer. with the solar at this corner.
		West on a random line bet. secs. 20 and 29.
	40.00 79.92	Set a temp. 1 sec. cor. Intersect the N. and S. line at a point 1 lk. S. of the corner of secs. 19, 20, 29 and 36.
		Thence I run East on a true line bet. secs. 20 and 29.
	ŕ	Over badly broken ground.
	34.00 35.50	Ascend rocky ridge along S. slope. Top of ascent, ridge runs back N. Descend.
	<b>39.9</b> 6	Set a granite stone, 16x14x6 ins., 10 ins. the ground for the # sec. cor., mkd. # on N.face, and raise a mound of stone, 2 ft. base, 1 ft. high, N. of cor.
	41.00 47.00 58.00	Foot of ridge bears N. and S. Road bears NE. and SW. Road bears NE. and SW.
	79.92	The corner of secs. 20, 21, 28 and 29.  Land rough and broken. Soil 3rd rate. No timber.
		Dec. 9th, 1910. ••••••
		East on a true line bet. Fracl: 21 and 28, over rolling ground.
	40.00	Set a granite stone, 12x9x5 ins., 8 ins. in the ground for the i sec. cor., mkd. \(\frac{1}{4}\) on N. face, and dig pits, 18\(\frac{1}{2}\) ins., E. and W. of cor, 3 ft. dist. and raise a mound of earth, 3\(\frac{1}{2}\) ft. base, 1\(\frac{1}{2}\) ft. high, N. of cor.
	46.00	Arroyo, 50 lks. wide, course NE.
	71.85	Intersect the W. bdy. of the San Juan de las Boquillas y Nogales Private Land Grant at a point N.10°02'W., 3.85 chs. from the 20½ Mile corner, a granite stone, 9x8x6 ins. above ground, properly marked as described by the Surveyor General.
	66	Set a granite stone, 12x7x7 ins., 8 ins. in the ground for the closing corner of fract. secs. 21 and 28, mkd. SJBN on E; on W. with 2 grooves on S. face, dig pits, 24x24x12 ins., N. 10.02 W. and S. 10.02 E 3 ft. dist. and W. of cor. 7 ft. dist. and raise a mound of earth, 4 ft. base, 2 ft. h igh W. of cor.
		Land rolling. Soil 2nd rate. Mesquite brush.

Chains.	N.0º1ºE. bet. secs. 20 and 21 over rolling ground.
	Enter badly broken ground, bears NE. and SW.
35.50	Ascend. Little ridge bears NE. and SW.
40.00	Descend.  Set a granite stone, 12x10x10 ins., 8 ins. in the ground for the # sec. cor., mkd. # on W. face, and raise a mound of stone, 2 ft. base, 1 ft. high, W. of cor.  Corner set on SE. side of wide draw, course NE.
60.00 80.00	Leave wide draw, course NE. Set a sandstone, 12x8x6 ins., 8 ins. in the ground for the corner of secs. 16, 17, 20 and 21, mkd. with 3 notches on the S. and 4 notches on the E. edge, and raise a mound of stone, 2 ft. base, 11 ft. high, W. of cor.  Tand rolling and broken in places. Soil 2nd rate.  No timber.  Dec. 10th:- At this corner I set off 22°521. S. on
	the decl. arc, and at llh.53m.a.m., l. m. t. obs. the sun on the mer., the resulting lat. is 31.41 N.
40.00 80.14	Wes t on arandom line bet., secs. 17 and 20.  Set a temp. 1 sec. cor.  Intersect the N. and S. line at a point 5 lks. N. of the cor.  of secs. 17, 18, 19 and 20. Thence I run
40.07	N.89.58 E. bet. secs. 17 and 20 ascending angle 10. Ridge bears N. and S. descend. Set a basaltic stone, 12x10x4 ins., 8 ins. in the ground for the # sec. cor., mkd. # on N. face, and raise a mound of stone, 2 ft. base, 1 ft. high, N. of cor. The corner of sections, 15,17,20 and 21.  Land rolling. Soil 2nd rate. No timber.
•	Dec. 10th: - At 4h, p. m. 1. m. t., I set off 22.52.5. on the decl. arc, 58.19 on the co-lat. arc, and determine a mer. with the solar at this corner.  Dec. 10th, 1910.
	East on a true line bet. Frac! 16 and 21 over rolling ground. Through mesquite brush.
40.00	Set a granite stone, 12x6x6 ins., 8 ins. in the ground for the 1 sec. cor., mkd. 1 on N. face, and raise a mound of stone, 2 ft. base, 11 ft. high, N. of cor.
57.74	Intersect the W. bdy. of the San Juan de las Boquillas y Nogales Private Land grant at a point N.10°02'W., 5.10 chs. dist. from the 19 mile corner, a granite stone, 7x6x5 ins. above ground, properly marked and witnessed as described by the Surveyor general.  Set a granite stone, 15x6x6 ins., 8 ins. in the ground for the closing corner of fracl. secs. 16 and 21, mkd.5JBN on E; on the W. with 3 grooves on the S. face, dig pits, 24x18x12 ins. N.10°02'W. and S.10°02'E., 3 ft. dist. and W. of stone 7 ft. dist. and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor.
	Land rolling. Soil 2nd rate. Mesquite brush.  Dec. 12th: - Sky overcast at noon. Solar obs.impossible
	N.0001'E. bet. secs. 16 and 17 over rolling ground.

N.0001'E. bet. secs. 16 and 17 over rolling ground.

Set a quartzite stone, 16x7x6 ins., 10 ins. in the ground for the 1 sec. cor., mkd. 1 pn W. face, and raise a mound of stone, 2 ft. base, 11 ft. high, W. of cor.

#### Subdivisional Lines of pract. T. 20 S., R. 21 E.

chains.

Set a quartzite stone, 18x6x6 ins., 12 ins. in the ground for the corner of secs. 8, 9, 16 and 17, mkd. with 4 notches on the S. and E. edges and raise a mound of stone, 2 ft. base, 1; ft. high, W. of cor. 80.00

Land rolling. Soil 2nd rate. No timber.

S.89.58 W. on a random line bet. secs. 8 and 17.

40.00 80.00

Set a temp. 1 sec. cor.
Intersect the N. and S. line at a point 5 lks. S. of the corner of secs. 7, 8, 17 and 18.

Thence I run East on a true line bet. secs. 8 and 17 over extremely rough and rocky ground, descending. Canon, 10 lks. wide, course SE., ascend.

34.00

40.00

Set a basaltic stone 14x14x5 ins., 10 ins. in the ground for the 1 sec. cor., mkd. 1 on N. face and raise a mound of stone, 2 ft. base, 11 ft. high, N. of corner.

At this point I triangulate across box canon, Babocomri Creek. In bottom of canon, railroad, Southern Pacific, telegraph line and right of way fences of railroad. Canon is about 2 chs. wide on bottom and 150 to 200 feet

East.

Flag set on line on East side of canon. From the sec. cor. I measure North 20 chs. From this point the flag bears S.60°E.; which gives the dist. (by traverse table) 34.64 chs.
To SE. side of canon which bears NE. and SW.

74.64

80.00

The corner of secs. 8, 9, 16 and 17.

Dec. 12th:- At 4h, p. m., 1. m. t., I set off 23.2's. on the decl. arc, and 58.18' on the co-lat. arc and determine a mer. with the solar at this cor.

Land mountainous. Soil 3rd rate. No timber.

Dec. 12th, 1910.

East on a true line bet. Frac! 9 and 16.
Set a granite stone, 12x7x6 ins., 8 ins. in the ground
for the 1 sec. cor., mkd. 1 on N. face, and raise a mound
of stone, 2 ft. base, 11 ft. high, N. of cor. 40.00

Intersect the W. bdy. of the Ban Juan de las Boquillas y Nogales Private Land Grant at a point whence the 18 mile cor, a granite stone, 12x10x10 ins., above ground, properly marked and witnessed as described by the Surveyor General bears 5:10-02 E. 6.74 chs. dist. 43.44

Set a grantte stone, 12x8x6 ins., 8 ins. in the ground for the closing corner of fracl. secs. 9 and 16, mkd.5JBN on E; with 4 grooves on S. face, and raise a mound of stone, 2 ft. base, 12 ft. high, W. of cor.

Land rolling. Soil 3rd rate. No timber. A few greasewood and mesquite bushes.

118 Chains. N.0.011E. bet. secs. 8 and 9 over rough and rocky ground. Edge of Mesa, bears NE. and SW. Commence steep and precipitous descent towards Babocomari Creek. 7.00 Running water, Babocomari Creek, 10 Iks. wide, 6 ins. deep., Course NE. 29.50 Ascend. Fence bears NE. and SW.
Telegraph line bears NE. and SW.
Single track, Southern Pacific, bears NE. and SW.
Fence bears NE. and SW.
Top of Canon, bears E. and W., descend. 30.08 30.59 31.00 31.62 **36.**00 Set a granite stone, 18x7x5 ins. for. 1 sec. cor., mkd. 1 on W. face, and raise a mound of stone, 2 ft. base, 11 ft. high W. of corner. Corner is on E. side of deep arroyo. Course of Arroyo, S.10. 50 lks. wide.

A mesquite tree 6 ins. in diam. bears S.10. 66 lks. dist., mkd. 188BT. No other bearings available.

Ascend.
Top of level mesa, bears E. and W. 40.00 45.00 Set a limestone, 18x9x5 ins., 12 ins. in the ground for the cor. of secs. 4, 5, 8 and 9, mkd. with 5 notches on the S. and 4 notches on the E. edge, and raise a mound of stone, 2 ft.-base, 1 ft. high, W. of cor. Land mountainous. Soil 2nd and 3rd rate. No timber 80.00 No timber. Dec. 13th: At the corner of secs., 4, 5, 8 and 9, I set off 23.7 Son the decl. arc and at 11 h. 54m. a. m., 1. m. t., obs. the sun on the mer., the resulting lat. is m. t. c 31 42 N. Thence I run, West on a random line bet. secs. 5 and 8. Set a temp. 1 sec. cor.
Intersect the N. and S. line 3 lks. N. of the cor. of secs.
5, 6, 7 and 8.
Thence Trun N.89.59 E. on a true line bet. secs. 5
and 8 over rolling ground, through mesquite brush. 40.00 79.99 Leave mesquite brush which bears N. and S. Telephone line bears NE. and SW. House bears N. 32°15'E. 30.00 34.00 about 10 chs. dist. Deserted.

Road bears NE. and SW.

Set a limestone, 15x7x5 ins., 10 ins. in the ground for the 2 sec. cor., mkd. 2 on N face, and raise a mound of stone, 2 ft. basem 12 ft. high, N. of cor. 36.17 39.991 Road bears N.10. and S.10. The cor. of secs. 4, 5, 8 and 9. 46.00 79.99 Land rolling. Soil 2nd rate. Mesquite brush first 30 chs. East on a true line bet. fracl. secs. 4 and 9 over rolling ground. Descend into canon,
Wash, 50 lks. wide, course S.10°E.
Intersect the W. bdy. of the San Juan de las Boquillas y
Nogales Private Land Grant at a point N.15°39°E. 8.52 chs.
dist. from the 17½ mile corner, a quartzite stone, 12x8x6
ins. above ground, properly marked and witnessed as described
by the Surveyor General.
Set a granite stone, 15x10x5 ins., 10 ins. in the ground 15.00 27.50 28.15

for the closing corner of fracl. secs. 4 and 9, mkd. CC on W., SJBN on E. and 5 grooves on S. face, and raise a mound of stone, 2 ft. base, 11 ft. high, W. of cor.

Land broken. Soil 3rd rate. No timber.

Dec. 13th: - At 4h, p. m., ; l. m. t. I set off 23.6 S. on the decl. arc, 58.18 on the co-lat. arc and determine a mer. with the solar at the closing corner of fracl. secs 4 and 9.

Dec. 13th, 1910.

Dec.14th: - At 8h, a. m. 1. m. t., I set off 23.9'S. on the decl. arc, 58.18' on the co-lat. arc and determine a mer. with the solar at the corner of secs. 4, 5, 8 and 9,

Thence I run, N.O.1 E. on a random line bet. secs. 4 and 5.

Set a temp. 1 sec. cor.
Intersect the N. bdy. of the township at a point 3 lks.
east of the corner of secs. 4, 5, 32 and 33, previously. 40.00 80.44 set by me.

There I run, South on a true line bet. secs. 4 and 5 over rolling ground.

Set a porphry stone, 12x7x6 ins., 8 ins. in the ground for the 1 sec. cor., mkd. 1 on W. face, and raise a mound of stone 2 ft. base, 11 ft. high, W. of cor.

Telephone line bears NE. and XW.

Road bears NE. and SW.

Foot of little conical hill. Ascend.

Top of little conical hill, Descend.

The corner of secs. 4, 5, 8 and 9. 40.44

50.44 51.19 67.00 77.00

Land rolling. Soil 2nd rate. No timber.

From the Standard corner of secs. 23 and 34 on the south bdy. of the township, which cor. is a redwood post, 4 ins. sq., 18 ins. above ground, properly marked and witnessed as described by the Surveyor General, I run N.0°2°E. bet. secs. 33 and 34 over rolling ground.

Set a sandstone, 20x8x6 ins., 15 ins. in the ground for the 1 sec. cor., mkd. 1 on W. face, and raise a mound of stone, 2 ft. base, 11 ft.high, W. of cor. 40.00

Set a sandstone, 15x10x4 ins., 10 ins. in the ground for the corner of secs. 27, 28, 33 and 34, mkd. with 1 notch on the S. and 3 notches on the E. edge, and raise a mound of stone, 2 ft. base, 12 ft. high, W. of cor.

Land rolling. Soil 2nd rate. No timber. 80.00

Dec. 14th: - At this corner, I set off 23°11. S. on the decl. arc, and at 11h.54m.a. m., 1. m. t., obs. the sun on the mer., the resulting lat. is 31°39'N.

West on a random line bet. secs. 28 and 33.

Set a temp. ½ sec. cor.
The cor. of secs. 28, 29, 32 and 33.
Thence I run East on a transcaline bet. secs. 28 and 33 79.96 over roll ing ground.

Arroyo, 50 lks. wide, course NE.
Set a granite stone, 12x7x6 ins., 8 ins. in the ground for the 1 sec. cor., mkd. 1 on N. face, and raise a mound of 6.00 59.98

Chains!

stone, 2 ft. base, lift. high, N. of cor.

55.00 79.96

Leave rolling ground, bears N. and S. and enter lever ground The cor. of secs. 27, 28, 33 and 34.

Land rolling 55.00 chs. and level 24.96 chs.

Soil 2nd rate. Greasewood brush.

East on a true line bet. fracl. secs. 27 and 34.

Intersect the W. bdy. of the San Juan de las Boquillas y Nogales Private Land Grant at a point 2.30 chs. N. 10°02'W. of the 21½ mile cor., a granite stone, 6x8x6 ins., above ground, properly marked and witnessed as described by the Surveyor General.

Set a porphry stone, 12x8x6 ins., 8 ins. in the ground for the closing corner of fracl. secs. 27 and 34, mkd. CC on W. SJBN on E. with 1 grobye on the S. fade, and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. Land level. Soil 2nd rate. No timber.

From the corner of secs. 27, 28, 33 and 34, N.O.2'F. bet fracl. secs. 27 and 28 over rolling ground.

33.21

Intersect the W. bdy. of the San Juan de las Roquillas y Nogales Private Land Grant at a point S. 10.02 F. 3.94

chs. Dist. of the 21 mile corner, a granite stone, 10x12x6 ins. above ground, properly marked and witnessed as described by the Surveyor general.

Set a granite stone, 12x7x6 ins., 8 ins. in the ground for the closing corner of fracl. secs. 27 and 28, mkd.

CC on S., SJBN on N. with 3 grooves on E. face, and dig pit, 30x24x12 ins., N.10.02 W3 and a pit 24x18x12 ins. S. 7 ft. dist. of corner. and raise a mound of earth, 4 ft. base, 2 ft. high, S. of stone.

Land rolling. Soil 2nd rate. No timber.

Dec. 14th, 1910.

#### GENERAL DESCRIPTION.

This township is rough and broken. A considerable number of cattle graze on it. The grass is good. Practically no cultivation is being carried on in it. The Southern Pacific traverses the Northern part.

Thugh Fould



		(	See Jook	
LIST C	)F	NAMES.		

A list of the names of the individuals employed by	BOOK	2279
, United States Deputy Surveyor, to assist in runni	•	ng, and
marking the lines and corners described in the foregoing field notes of the survey of		,
showing the respective capacities in which they acted:	<del></del>	<del></del>
	, Chain	man.
	, Chain	man.
·	, Mound	dman.
	, Mound	dman.
	, Axma	n.
	, Axma	n.
	•	
FINAL OATH OF ASSISTANTS.	, •	
We hereby certify that we assisted		<b></b>
, United States Deputy Survey		
those parts or portions of the		
		·
of	the	
, wh	ich are repres	$\mathbf{sented}$
in the foregoing field notes as having been surveyed by him and under his direction; and		
has been in all respects, to the best of our knowledge and belief, well and faithfully corner monuments established, according to the instructions furnished by the Unite		
General for	a States Sur	veyor
	Chaina	mam
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	,	
Subscribed and sworn to before me this)		•••••
day of, 19		
OCOOOOO O SEAL O OOOOOOO		

BOOK	2210	ED STATES DEPUT	ited States Deputy Surveyor, do
•			
			bearing date of the
			faithfully, and truly, in my own
General for	veyed all those parts or p	, the Manual of Surveying ortions of	by the United States Surveyo
		·	- C 41.
			of the, which are represented in th
swear that all the the Manual of Sur General for	corners of said survey have veying Instructions, and t	ve been established and perp he special written instruction nd in the specific manner desc	ction; and I do further solemnle tuated in strict accordance with sof the United States Surveyoribed in the field notes, and the
•	dday of	and sworn to before	
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•	day of coccoc o seal o		
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this	day ofday of	APPROVAL.  ITED STATES SURVEYOR (	•
this	day of	APPROVAL.  ITED STATES SURVEYOR (	• me }
this	day ofday of	APPROVAL.  ITED STATES SURVEYOR (	• me }

I 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.

United States Surveyor General.

United States Surveyor General.

surveys they describe, are hereby approved.