Book "N." (Subdivisions)

FIELD NOTES

OF THE SURVEY OF THE

RESURVEY OF T	HE MERIDIONAL SECT	ION LINES WEST O	F SECTIONS 34,27,
22, 15,	10 and 3, and Surve	y of the complet	ion of the
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	EXEC	UTED BY	om
···	EXEC Guy H.Richards	OTED BY	
	EXEC	on, U.S. Survey	
	EXEC Guy H.Richards	on, U.S. Survey and .U.S. Transitman,	
in the capacity of	EXEC Guy H.Richardso Hugo Price	on, U.S. Survey and U.S. Transitman, er instructions date	d January 4,, 1
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Book "N" Group 43 T. 20 N.- R. 19 W.

BOOK 2889

INDEX DIAGRAM.

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	Surveys described in field notes of Group 43
	Accepted surveyed lines
///////////////////////////////////////	Shaded area surveyed as per accepted plats on file

Retracement of West burs of secs 34.27.22.15.10&3 of T.20 N. R19W

Chains

- Retracement, resurvey and survey commenced Dec. 7,1915, and executed jointly by Guy H.Richardson, U.S. Surveyor, and Hugo Price, U.S. Transitman, with Young and Sons' light mountain transits Nos. 8484 and 8539 respectively. The transits were approved by the Assistant Supervisor of Surveys for Arizona and California on Jan. 31, 1915.
- The instruments are provided with Smith solar attachments, and the horizontal limbs are provided with two double verniers placed opposite to each other, reading to single minutes of arc, which is also the least count of the verniers of the latitude and declination arcs.

Guy H.Richardson, U. S. Surveyor.

- Dec. 5, 1915: At a point near my camp, which is located in the SE. 4 of sec. 33 of T. 20 N., R. 19 W., I examine the adjustments of the transits, and correct the level and collimation errors; then, to test the solar apparatus, by comparing indications, resulting from solar observations made during p.m. and a.m. hours, with a meridian determined by observations on Polaris, I proceed as follows:
- At 2h. Om. p.m., l.m.t., I set off 22° 18' S.on the decl. arc; and 35° 42' N. (computed) on the lat.arc; and determine a meridian with the solar, and mark the line thus obtained with a tack on a hub set firmly in the ground about 5 chs. N.of my station.
- Dec. 6, 1915: At 2h. 30m., a.m., I observe Polaris at western elongation, and mark the line thus obtained with a tack on a hub set firmly in the ground about 5 chs. northerly from my station. At 7h.30m., a.m., I set off the azimuth of Polaris 1° 23½' to the east, and note that the line obtained by solar observation yesterday afternoon is identical with the line obtained by Polaris observation.
- At 8h.Om., a.m.,1.m.t., I set off 22° 21' S.on the decl. arc; and 35° 4½'N. on the lat.arc, and determine a meridian with the solar. The meridian thus obtained

2 Retracement of West bdrs. of secs. 34, 27, 22, 15, 10&3 of T. 20N., R. 10W.

Chains is identical with the meridian established by Polaris observation. Having tested both instruments on the Polaris meridian and found them to check satisfactorily for both p.m. and a.m. hours, I conclude that they are in good adjustment. Lines run by Guy H.Richardson, U. S. Surveyor, as follows: Dec. 7,1915. At old cor. of secs. 3, 4, 33 and 34 on the S. bdy.of Tp., which is a lava stone, 8x6x5 ins. above ground marked and witnessed, as described by the Surveyor General, at 8h.Om. a.m., l.m.t., set off 22°29'S. on the decl.arc; 35°4' N.on the lat.arc; and determine a meridian with the solar. Thence I run, $\mathbb{N}.0^{\circ}$ 15'W. on a random line, bet. secs.33 and 34. 40.00 Fall 4 1ks.W.of old 1 sec.cor., which is a lava stone, set firmly in the ground, marked and witnessed as described by the Surveyor General. True course and dist. of $S.\frac{1}{2}$ bet. secs. 33 and 34 is therefore N.O° 12'W., 40.00 chs. Continue random line and measurement. Fall 20 lks.W.of old cor.of secs.27,28,33 and 34, which 80.11 is a lava stone, set firmly in the ground, marked and witnessed as described by the Surveyor General. True course and distrof N. 2 bet. secs. 33 and 34 is therefore N.O° 1'W.. 40.11 chs. From the cor. of secs. 27,28, 33 and 34, I run, N.0° 5' W., on a random line, bet. secs. 27 and 28. 39.92 Fall 13 lks.W.of old \(\frac{1}{2} \) sec.cor., which is a lava stone. firmly set in the ground, marked and witnessed as described by the Surveyor General. True course and dist. of S. $\frac{1}{8}$ bet. secs.27 and 28 is therefore N.0° 6' E., 39.92 chs. Continue random line and measurement. Fall 29 lks. W. of old cor. of secs. 21,22,27 and 28, which 79.95 is a lava stone, firmly set in the ground, marked and

Retracement of W. bers of secs 3/ 27 22 15 10 and 3 of T. 20N Chains witnessed as described by the Surveyor General. True course and dist.of N. 2 bet. secs. 27 and 28 is therefore N.0°9'E.,40.03 chs. From the old cor. of secs. 21,22,27 and 28, I run, N.0°5' W., on a random line, bet. secs.21 and 22. Fall 5 lks.W.of old 3 sec.cor., which is a lava stone, **39.9**8 set firmly in the ground, marked and witnessed as described by the Surveyor General. True course and dist. of S. 2 bet. secs. 21 and 22 is therefore N.0°1'W., 39.98 chs. Continue random line and measurement. Fall 11 1ks.W. of old cor. of secs. 15,16,21 and 22, which 79.93 is a lava stone, set firmly in the ground, marked and witnessed as described by the Surveyor General. True course and dist. of N. 2 bet. secs. 21 and 22 is therefore North, 39.95 chs. From old, cor. of secs. 15, 16, 21 and 22, I run, N. 0°5' W. on a random line, bet. secs.15 and 16. Fall 6 lks.E. of old 4 sec.cor., which is a lava stone, 39.96 set firmly in the ground, and marked and witnessed as described by the Surveyor General. True course and dist. of S. 2 bet. secs. 15 and 16 is therefore N.O° 10'W., 39.96 chs. Continue random line and measurement. Fall 10 lks.W. of old cor.of secs. 9,10,15 and 16, which 80.02 is a lava stone, set firmly in the ground, marked and witnessed as described by the Surveyor General. True course and dist. of $N.\frac{1}{2}$ bet. secs. 15 and 16 is therefore N.0°9'E., 40.06 chs. From the old cor. of secs. 9,10,15 and 16, I run,

N.0°5' W., on a random line, bet. secs. 9 and 10.

4	Ratrac	ement of W bdrs of secs. 34. 27. 22. 15. 10&3. T. 20 N. R. 19 W.
	Chains.	
	40.08	Fall 1 lk. W.of old 2 sec.cor., which is a lava stone, set
		firmly in the ground, marked and witnessed as described
	20 4000	by the Surveyor General.
		True course and dist. of S. bet. secs. 27 and 28 is there-
٠		fore N.0°4'W., 40.08 chs.
		Continue random line and measurement.
	80.16	Fall 2 lks.W.of old cor. of secs. 3,4,9 and 19, which is a
		lava stone, set firmly in the ground, marked and wit-
	ar a	nessed as described by the Surveyor General.
		True course and dist. of N. 2, bet. secs.27 and 28 is there-
		fore N.0° 4' W., 40.08 chs.
	•	From the old cor.of secs.3,4,9 and 10, I run
		N.0°5'W., on a random line, bet. secs. 3 and 4.
	40.03	Intersect old \(\frac{1}{2}\) sec.cor., which is a lava stone, set firmly
		in the ground, marked and witnessed as described by the
		Surveyor General.
	and the second second	True course and dist. of $S.\frac{1}{2}$ bet. secs. 3 and 4 is there-
		fore N.0°5'W., 40.03 chs.
		Continue random line and measurement.
	80.62	Intersect the 5th. Standard Parallel N.1 lk.E.of old clos-
	* '	ing cor. of secs. 3 and 4, which is a lava stone, set
		firmly in the ground, marked and witnessed as described
	•	by the Surveyor General.
		True course and dist.of N. bet. secs. 3 and 4 is there-
		fore N.0°6' W., 40.59 chs.
	_	
	• .:. ` .	Resurvey of W.bdrs.of secs.34,27,22,15,10&3 of T.20N.R.19W.
		From the old cor.of secs. 3,4,33 and 34 on the S.bdy.of the
		Tp., hereinbefore described, I run,
	W ** + * * * *	N.0° 12' W., on a true line, bet. secs. 33 and 34.
		Over level land.
	19.98	Dry wash, course E.
	40.00	Old 1 sec.cor., hereinbefore described. Reestablish in same
		place as follows: Set an iron post 3 ft.long, 1 in.in 26 ins.in the ground alongside of stone, with brass cap.

Chains marked 1 S 33 S 34

Thence I run,

N.O°1'W., continuing measurement on N. $\frac{1}{2}$ bet.secs.33 and 34

55.00 Leave level land; ascend.

60.90 Top of spur, slopes E., 115 ft. above level land; descend

80.11 23 ft.below top of spur, intersect old cor. of secs.27,28
33 and 34, hereinbefore described. Reestablish cor.
as follows:

Set an iron post, 3 ft.long, 2 ins. in diam., 24 ins. in the ground alongside of stone, with a brass cap, marked

Land, level and rolling. Soil, stony, 4th rate.
Undergrowth, greasewood and sagebrush.

From the cor.of secs. 27,28, 33 and 34, I run, N.O°6'E., on a true line, bet. secs.27 and 28. Over slightly rolling, and level land.

15.00 Wash, course E.

39.92 Intersect old 1 sec.cor., hereinbefore described. Reestablish cor.as follows:

Set an iron post, 3 ft.long, 1 in. in diam., 26 ins. in the ground, alongside of stone, with a brass cap, marked \frac{1}{2} S \frac{28}{3} S \frac{27}{3}

Thence I run,

N.0° 9' E., continuing measurement on N.½ bet.secs.27 & 28.

79.95 Intersect old cor.of secs.21,22,27 and 28. Reestablish as follows:

Set an iron post, 3 ft.long, 2 ins.in diam., 24 ins.in the ground, alongside of stone, with a brass cap, marked

39.96

Resurvey of W.bdrs.of secs. 34, 27, 22, 15, 10&3 of T.20 N., R.19 W. Chains. Land, slightly rolling and level. Soil, stony, 4th rate. Undergrowth, greasewood and sagebrush. From the cor. of secs. 21, 22, 27 and 28, I run, N.0°1'W., on a true line, bet. secs.21 and 22. Over level land. 35.00 Wash,12 lks.wide, course S. 75° E. Intersect old 1 sec.cor., hereinbefore described. Reestab 39.98 lish as follows: Set an iron post, 3 ft.long, 1 in.in diam, 26 ins. in the ground, alongside of stone, with a brass cap, marked 1 S 21 S 22 1915 Thence Irun. North, continuing measurement, on N. 2 bet. secs. 21 and 22 45.00 Leave level land; ascend. 56.06 Top of spur, slopes E., 105 ft. above level land; descend. Intersect old cor. of secs. 15, 16, 21 and 22, hereinbefore 79.93 described, 240 ft. below top of spur. Reestablish as follows: Set an iron post, 3 ft.long, 2 ins. in diam., 24 ins.in the ground, alongside of stone, with a brass cap, marked T 20 N R 19 W s 16 Land, level and rolling. Soil, stony, 4th rate. Undergrowth, greasewood and sagebrush. From the cor.of secs.15,16,21 and 22, I run, N.0°10'W.on a true line, bet. secs.15 and 16. Over level land.

> Intersect old 4 sec.cor., hereinbefore described. Reestablish as follows: Set an iron post, 3 ft.long, lin.in diam., 26 ins.in the ground, alongside of stone, with a brass cap, marked

Resurvey of W. bdrs. of secs. 34, 27, 22, 15, 10.3, of T. 20 N., R. 1/4 S 16 S 15 Chains 1915 Thence I run N. 0. 9' E., continueing measurement, on N. half bet. secs. 15 and 16. 15 and 50.00 Dry wash, 10 lks. wide, course S. 70° E. Intersect the cor. of secs. 9, 10, 15 and 16 hereinbefore 80.02 described. Reestablish as follows: Set an iron post, 3 ft. long, 2 ins. in diam., 24 ins. in the ground, along side of stone, with a brass cap, marked T 20 N. R 19 W S 9 | S 10 S 16 | S 15 1915 Land, level. Soil, stony, 4th. rate. Undergrowth, greasewood, sagebrush and cactus. a decrease From fold cor. of secs. 9, 10, 15 and 16, and run N. 0º 4' W. on a true line bet. secs. 9 and 10. Over level land. Intersect 1/4 sec. cor. hereinbefore described. Reestablish 40.08 as follows: Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, along side of stone, with a brass cap, marked 1/4 S 9 S 10 Dry wash, 20 lks. wide, course W. 50.00 Intersect cor. of secs. 3, 4, 9 and 10, hereinbefore de-80.16 scribed. Reestablish as follows: Set an iron post, 3 ft. long, 2 ins. in diam., 24 ins. in the ground, along side of stone, with a brass cap, marked T 20 N R 19, W S 4 S 3 5 10

1915

Land, level.

8. Resurvey of W. bdrs. of secs. 34,27,22,15,1023of T. 20 N., R. 19 W.

Chains

Soil, stony, 4th. rate.

Undergrowth, greasewood, sagebrush and cactus.

N. 0° 5' W. on a true line bet. secs. 3 and 4.

Over level land.

40.03

Intersect 1/4 sec. cor. bereinbefore described. Reestablish as follows:
Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, along side of stone, with a brass cap, marked

Thence I run

80.62

N. 0° 6' W., continuing measurement, on N.½ bet.secs.3&4.

Intersect the closing cor. of secs. 3 and 4, on the 5th.

Standard Parallel N.hereinbefore described.Reestablish as follows:

Set an iron post, 3 ft. long, 2 ins. in diam., 24 ins. in the ground along side of stone, with a brass cap,

marked

Land, level.

Soil, stony, 4th. rate.

Undergrowth, greasewood, sagebrush and cactus.

Guy H.Richardson, U.S. Surveyor, 1011.

December 7.1915.

Dec. 9, 1915; lines run by Hugo Price, U.S. Transitman, as follows:

At the cor. of secs. 4, 5, 32 and 33, on the

S. bdy. of the twp.described in Book"A, we, at 8h.

Om., a. m., 1.m.t., set off 22° 42' S. on the decl.

arc, 35° 4' N. on the lat. arc, and determine a meridian with the solar,

Thence I run

N. 0° 2' W. bet. secs. 32 and 33.

Over rolling mountainous land, asc. SW. slope.

5.00 Top of 46 ft. ascent, desc.

		etion of the Subdivision of T.20 N., R. 19 W. 9.
	Chains.	Foot of 22 ft. descent; ascend.
	11.40	Top of 13 ft. ascent; descend.
	13.83	Top of cliffs, bears E.and W. Chaining on sec.line N.of
		this point being impracticable owing to steep descent
	••	over cliffs, I triangulate as follows:
		Set flag at this point.
	Menter	Establish triangulation point on sec.line N.0°2'W.,
36	43 90. 10.5	from flag.
	00, BASI	From triangulation point, I lay off a base N.89°58'
	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	E., 10.50 chs.
	NO'2'	From E.end of base flag brs. S. 24°53 W.
•	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	The included angles are 90°00',65°05' and 24°55',
•	3 3	the sum of which is 180°00'.
	8 8	Therefore the dist.from flag to triangulation point
13	.83 & FLAG PT	is obtained by
		Tang.65°05'x base or 2.15268x10.50= 22.60 chs.
-		13.83 chs. + 22.60 chs. =
	36.43	Triangulation point, 670 ft. below flag point at top of
	• • •	cliffs.
		Continue measurement by chaining. Descend.
	40.00	47 ft.below triangulation point. Set an iron post 3 ft.
		long, 1 in. in diam., 8 ins.in the ground, to solid rock,
		in a mound of stone for 1 sec. cor., with a brass cap,
)	marked
		1915
	FLAG PT. 71.88	and raise a mound of stone, 2 ft.base, 1 ft.high, W.of
		cor.
	8.1	Chaining on sec.line N.of this cor.being impracticable, I
		triangulate as follows:
_	[N] /	Set a flag on sec. cline N.0°2'W.of 4 sec.cor.
*	100	Return on sec.line to triangulation point of
_	:WE 5.45	previous triangulation at 36.43 chs.station.
	77	Thence lay off a base, N.89°58'E., 10.50 chs.
	SE	From east end of base, flag brs. N. 16°32'W.
•		Included angles are 90°00', 73°30' and 16°30', the
	9000	sum of which is 180° 00'.

Chains	letion of Subdivision of T. 20 N. R. 19 W.
Juan	Therefore dist.from triangulation point to flag
	is obtained by
	Tang.73°30'x base or 3.37594 x 10.54= 35.45 chs.
	36.43 chs. + 35.45 chs. =
71.88	Flag point, 330 ft. above 36.43 ch. station. Ascend. Con
	tinuing measurement, chaining
73.50	Top of spur, slopes SE., 30 ft. above flag point. Descend
78.00	Foot of spur, 225 ft. below top, wash, course SE.
80.00	Set an iron post 3 ft.long, 2 ins. in diam., on surface
	rock, in a mound of stone, for cor. of secs. 28, 29, 32
	and 33, with a brass cap, marked,
, 1	T 20 N R 19 W S 29 S 28
	5 29 5 20
	s 32 s 33
	and raise a mound of stone, 2 ft.base, l_{2}^{1} ft. high, W. of cor.
	At this cor.at apparent noon, I set off 22°45½'S.on the
	decl.arc, and observe the sun on the meridian for lat.
	The resulting lat.is 35° 5'N.
•	Land, mountainous. Soil, stony, 4th rate.
	Undergrowth, greasewood, catclaw and small juniper.
	No timber.
٠	
	N.89°41'E., on a random line, bet.secs.28 and 33.
40.00	Set temp. ‡ sec.cor.
79.94	Intersect N.and S. line, 4 lks.S.of the reestablished cor.
	of secs. 27,28,33 and 34, hereinbefore described.
• :	Thence I run,
	S.89°39'W., on a true line, bet. secs.28 and 33.
	Ascend over mountainous land, NE.slope.
30.90	Top of spur, slopes SE., 785 ft. above sec.cor.; descend.
39.97	212 ft.below top of spur, set an iron post, 3 ft.long,
	in. in diam., on surface rock, in a mound of stone,
	for 1 sec.cor., with a brass cap, marked
•	1 S 28

s 1915 Completion of Subdivision of Township. 20 North, Range 19 W.

Chains

and raise a mound of stone, 2 ft, base, 1½ ft.high, N.of

cor.; continue to descend.

46.40 170 ft.below ½ sec.cor.; ascend.

72.00 Top of 74 ft. ascent; descend.

74.40 Foot of 265 ft. desc., ravine, course SE.; ascend.

79.94 Cor.of secs. 28,29,32 and 33, 147 ft. above ravine.

Land, mountainous. Soil, stony, 4th rate.

Undergrowth, greasewood and small juniper.

No timber.

It being impracticable to measure N.0° 2' W.on sec.line, bet.secs. 28 and 29, from the cor.of secs.28,29,32 and 33, I run on offset line from said sec.cor., as follows:

East 14.80 chs.

Thence

N.0°2'W.,40.00 chs. Ascending over mountainous land 32.14 chs. Top of spur slopes SE.

865 ft.above sec.cor. Descend.

40.00 chs. 250 ft. below top of spur. Thence

West,8.32 chs.

To a point at foot of cliffs
bearing NW. and SE. As true
point for 1 sec.cor.is inaccessible and as this point on
my offset is the nearest practicable location for the establishment of a witness cor., I
set an iron post, 3 ft. long,

7.20 W W.Z.O.W W.Z.O.W

1 in in diam., on surface rock in a mound of stone
for witness cor. to 1 sec. cor., with a brass cap, marked
1 S 29 S 28

wc 1915

and raise a mound of stone 2 ft.base, l_2 ft.high, E. of cor. This witness cor. is located 6.48 chs. E. of the true point for $\frac{1}{4}$ sec. cor.

It being impracticable to chain measurement on sec.

line N.of true point for \$\frac{1}{4}\$ sec.cor.or N.from the

witness cor., I run on offset line as follows:

	letion of Subdivision of Township 20 N R 10 W
Chains.	East, 8.32 chs. Thence
	N.0°2'W.,40.00 chs. Descending.
SE SEC	14.36 chs. Ravine, course E.622 ft. below
cop. of 580 20,21,288	top of spur. Ascend SE.
	slope.
	19.45 chs. Top of spur, slopes E.210 ft.
	above ravine. Descend.
	No 23.10 chs. Foot of 100 ft.descent.Asc.
	27.93 chs. Top of 175ft.ascent. Descend.
POINT FO.	00 648 EAST 34.31 chs. Foot of 85 ft.descent.Ravine
1/4 35	course E. Ascend.
- , .	40.00 chs. 33 ft.above ravine. Thence
	West, 14.80 chs. Returning to sec. line at
80.00	Set an iron post, 3 ft.long, 2 ins.in.diam., on surface rock,
	in a mound of stone for cor.of secs.20,21,28 and 29,
	with a brass cap, marked,
	T 20 N R 19 W S 20 S 21
	S 20 S 21
	s 29 s 28 1915
	and raise a mound of stone 2 ft.base, 1 ft.high, W.of
	Land, mountainous.
	Soil, stony, 4th -rate.
	Undergrowth, greasewood, juniper and catclaw.
	Dec.10,1915.
	Dec. 11, 1915. At the cor. of secs. 20, 21, 28 and 29, at 8h. Om. a.m., 1.m.t., set off 22°53'S. on the decl. arc; 35° 6'N. on the lat. arc, and determine a meridian with the solar.
	Thence I run,
	N.89°39'E., on a random line, bet. secs.21 and 28.
40.00	Set temp. sec.cor.
79.98	Intersect N.and S. line, 12 lks.N. of the reestablished
	cor.of secs.21,22,27 and 28,hereinbefore described.
	Thence I run,
	5.89°44'W., on a true line, bet. secs.21 and 28.
	Over level land.

Completion of Subdivision of Township 20 North, Range 19 West.

Chains.

39.99 Set an iron post, 3 ft.long, lin. in diam., 10 ins.in the ground, to solid rock, in a mound of stone, for 1 sec.cor.

with a brass cap, marked,

s 28

and raise a mound of stone, 2 ft.base, $1\frac{1}{2}$ ft. high, N. of cor.

46.00 Leave level land, brs. N. and S., wash, course NE., ascend.

79.98 Cor.of secs.20,21,28 and 29,280 ft. above wash.

Land, level and rolling. Soil, stony,4th rate.

zana, zovoz am zomoh

Undergrowth, greasewood, cactus, catclaw and sagebrush.

N.0°2'W., bet. secs. 20 and 21.

Over rolling land; descend slightly.

24.00 Dry wash, course E., 40 ft.below sec.cor.; ascend.

39.00 Top of 250 ft.ascent; descend.

40.00 79 ft.below top of ascent, set an iron post, 3 ft. long,

l in. in diam., 10 ins.in the ground to solid rock, in

a mound of stone, for 2 sec.cor., with a brass cap,

marked 2 S 20 S 21

1915

and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Continue to descend.

54.42 Ravine, course E., 262 ft. below sec.cor.; ascend.

68.80 Top of spur, slopes E., 200 ft. above ravine; descend.

80.00 130 ft. below top of spur, set an iron post 3 ft.long, 2 ins in diam., 8 ins. in the ground, to solid rock, in a mound of stone, for cor.of secs. 16,17,20 and 21, with a brass cap, marked

and raise a mound of stone, 2 ft. base, $l_{\overline{z}}^{1}$ ft. high, W. of cor.

Land, rolling. Soil, stony, 4th rate.

```
Chains
        Undergrowth, cactus, catclaw and greasewood.
        At the cor. of secs. 16, 17, 20 and 21, at apparent noon, I set off 22°57'S. on the decl. arc, and observe the sun on the
           meridian for lat. The resulting latitude is 35°7' N.
        N.89°44 'E., on a random line bet. secs.16 and 21.
 40.00 Set temp. 2 sec.cor.
 80.20 Intersect N.and S. line 7 lks.N.of the reestablished cor.
           of secs. 15, 16, 21 and 22, hereinbefore described.
        Thence I run.
        5.89^{\circ}47^{\circ}W., on a true line, bet. secs.16 and 21.
        Over level land.
 40.10 Set an iron post, 3 ft.long, 1 in. in diam., 10 ins.in the
           ground to solid rock, in a mound of stone, for \frac{1}{2} sec. cor \,
           with a brass cap marked
                         1 S 16
                          1915
           and raise a mound of stone 2 ft. base, 1\frac{1}{2} ft. high, N.
           of cor.
 59.37 Dry wash, course NE.; ascend.
 80.20 | Cor. of secs. 16, 17, 20 and 21, 207 ft. above wash.
        Land, level and rolling. Soil, stony, 4th rate.
        Undergrowth, cactus, greasewood and catclaw.
        N.0^{\circ}2'W. bet. secs. 16 and 17.
        Descend over rolling land.
 34.76 Leave hills, enter level land, brs.NW.and SE., 120 ft. below
           sec.cor.
39.90 Dry wash, course SE.
 40.00 Set an iron post, 3 ft.long, 1 in.in diam., 12 ins.in the
           ground, to solid rock, in a mound of stone for \( \frac{1}{2} \) sec.cor \( \frac{1}{2} \),
           with a brass cap, marked
                         1 s 17 s 16
           and raise a mound of stone, 2 ft.base, 12 ft. high, W. of
           cor.
 63.00 Dry wash, course SE.
```

80.00 Enter shallow a dry wash, course SE..

Set an iron post, 3 ft.long, 2 ins. in diam., 12 ins. in

Completion of subdivision of T. 20 N., R. 19 W.

15

Chains

the ground, to solid rock, in a mound of stone, for corof secs. 8, 9, 16 and 17, with a brass cap, marked

and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high,. W. of cor.

Land, level and rolling.

Soil, stony, 4th. rate.

Undergrowth, greasewood, cactus and catclaw.

Dec. 11, 1915.

Dec. 14, 1915; 1 000 and At the cor. of secs. 8, 9, 16 and 17, and at 8h. Om., a. m., 1.m.t. set off 23° 7''.

S. on the decl. arc, and 35°7½° N. on the lat. arc, and determine a meridian with the solar, and run

N. 89° 47' E. on a random line bet. secs. 9 and 16.

40.00

Set temp. 1/4 sec. cor.

reestab.

80.06 Intersect N. and S. line 5 lks. N. of the cor. of secs.

9, 10, 15 and 16, hereinbefore described.

Thence I run

S. 89° 49' W. on a true line bet. secs. 9 and 16. Over level wash land.

10.00 Enter Secret Pass wash, shallow, course SE.

40.03 Set an iron post, 3 ft. long, 1 in. in diam., 12 ins. in the ground to solid rock, in a mound of stone, for 1/4 sec. cor., with a brass cap, marked

S 16

and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor.

75.00 Leave Secret Pass wash, course SE.

80.06 Cor. of secs. 8, 9, 16 and 17.

Land, level.

Soil, sandy and gravelly, 3rd. rate.

1	6	Completion of . subdivision of T. 20 N., R. 19 W.
	Chains	Undergrowth, cactus, catclaw and greasewood.
		N. 0° 2' W. bet. secs. 8 and 9.
		Over level wash.land, slopeing SE.
	28.50	Center of Secret Pass wash, course SE.
	40.00	Set an iron post, 3 ft. long, 1 in. in diam., 10 ins. in
		the ground, to solid rock, in a mound of stone, for 1/4
		sec. cor., with a brass cap, marked
		1/4 S 8 S 9
	_	1915
		and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high,
	-	W. of cor.
	51.00	Leave wash land, asc. SW. slope, bears NW. and SE.
	80'.00	500 ft. above wash land, set an iron post, 3 ft. long,
	·	2 ins. in diam., on surface rock, in a mound of stone,
		for cor. of secs. 4, 5, 8 and 9, with a brass cap,
		marked T 20 N R 19 W S 5 S 4
		S 8 S 9 1915
		and raise a mound of stone, 2 ft. base, $l^{\frac{1}{2}}$ ft. high,
		W. of cor.
		Land, level and rolling.
	`	Soil, stony, 4th. rate.
		Undergrowth, greasewood, catclaw and juniper.
		Dec. 14, 1915.
		Dec. 16, 1915;From the cor. of secs. 4, 5, 8
		and 9,I run
		N. 89° 49' E. on a random line bet. secs. 4 and 9.
	40.00	Set temp. 1/4 sec. cor.
	80.08	reestab. Intersect N. and S. line 10 lks. S. of the cor. of secs.
		3, 4, 9 and 10 hereinbefore described.
		Thence I run
		S. 89° 45' W. on a true line bet. secs. 4 and 9.
		Over level land.
	35.00	Leave level land, enter hills, bear NW. and SE., asc.

•		
(Completion of subdivision of T. 20 N., R. 19 W.	17
Chains		
40.04	Set an iron post, 3 ft. long, 1 in. in diam., 12 ins. in	
	the ground to solid rock, in a mound of stone, for 1/4	
	sec. cor., with a brass cap, marked	
	1/4 S 4	
	s 9 1915	
	and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high,	
-	N. of cor.	
80.00	Top of spur, slopes SE., 700 ft. above level land.	
80.08	Cor. of secs. 4, 5, 8 and 9.	
	Land, level and rolling mountainous.	
	Soil, stony, 4th. rate.	
	Undergrowth, Greasewood, juniper, catclaw and scrub oak.	
	No timber.	
	Doc. 16, 1915.	
	Dec. 14, 1915; I commons from the cor. of secs. 4, 5, 8	
	and 9, and run	1
	N. 0° 2' W. on a true line; bet. secs. 4 and 5.	
	Asc. over mountainous land, asc.	
2.65	Top of spur, slopes SE., 100 ft. above sec. cor., con-	
	tinue to asc. along E. slope.	
14.40	Top of spur, slopes E., 170 ft. ascent, desc.	
39.76	Ravine, course E., 835 ft. below top of spur.	
40.00	Set an iron post, 3 ft. long, 1 in. in diam., 10 ins. in	
	the ground, to solid rock, in a mound of stone, for	
	1/4 sec. cor., with a brass cap, marked	
	1/4 S 5 S 4	
	1915	
	and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high,	
	W. of cor., asc. SW. slope.	
54.20	Top of spur, slopes SE., 170 ft. above 1/4 sec. cor., des	3c.
70.00	Leave mountains, enter level land, bears NW. and SE, 235	
	ft. below top of spur.	
80.84		
-	old Std. 1/4 cor. of sec. 33, T. 21 N., R. 19 W., which	1
1		1

18. Completion of subdivision of T. 20 N., R. 19 W.

Chains

is a lava stone, 16 X 10 X 3 ins., marked and witnessed as described by the surveyor general. At point of intersection, Set an iron post 3 ft. long, 2 ins. in diam., 12 ins. in

the ground, to solid rock, in a mound of stone, for closing cor. of secs. 4 and 5, with a brass cap, marked

C C S 5 S 4 T 20 N R 19 W

1915

and raise a mound of stone, 2 ft. base, $1\frac{1}{8}$ ft. high, S. of cor.

Land, rolling mountainous and level. .

Soil, stony, 4th. rate.

Undergrowth, greasewood, juniper and catclaw.

Hugo Price, U. S. Transitman.

December 14,1915,

Dec. 9, 1915; line run by Guy H. Richardson, U.S. Surveyor, as follows:

I commence atold cor. of secs. 5, 6, 31 and 32, on the S. bdy. of the twp, described in Book"A,", and at 8h. Om., a. m., l.m.t., set off 22° 42' S. on the decl. arc,

and 35° 4' N. on the lat. arc, and determine a meridian with the solar.

Thence I run

N. 0° 2' W. bet. secs. 31 and 32.

Desc. over mountainous land.

4.83 Head of canyon, course S. 30° E., 90 ft. below sec. cor., asc.

24.60 Top of ridge, bears NE. and SW., 370 ft. above canyon, desc.

40.00 Set an iron post, 3 ft. long, 1 in. in diam., on surface rock, in a mound of stone, for 1/4 sec. cor., with a brass cap, marked

1/4 S 31. S 32

1915

and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.

49.47 Dry wash, course W., 425 ft. below top of ridge, asc.

Completion of Subdivision of Township 20 N.

80.00

Top of ridge, bears NW. and SE., 320 ft. above wash. 77.96

> Set an iron post, 3 ft.long, 2 ins. in diam., on surface rock, in a mound of stone, for cor. of secs. 29, 30, 31 and 32, with a brass cap, marked,

and raise a mound of stone, 2 ft. base, $l_2^{\frac{1}{2}}$ ft. high, W. of

Land, rolling, mountainous. Soil, stony, 4th rate. Undergrowth, cactus and greasewood.

> Guy H. Richardson, U.S.Surveyor.

Line run by Hugo Price, U.S. Transitman, as follows:

N.89°41'E., on rand om line, bet. secs.29 and 32.

Chaining being impracticable on this line E.from sec.cor.

I triangulate as follows:

Establish a triangulation point on random sec.line N.89°41'E., from sec.cor.

Set a flag 73 lks.N.89°41'E., from sec.cor.

From triangulation point, I lay off a base, N.O°19'W.

13.74 chs.

line as follows:

From N.end of base, flag brs. S. 76°21'W.

Included angles are 90° 00',76°40' and 13°20', the sum of which is 180° 00'.

Therefore the dist. on random sec.line from flag to triangulation point is obtained by Tang. $76^{\circ}40!$ x base or 4.21933 x 13.74 = 57.97 chs.

0.73 chs. + 57.97 chs. =

Triangulation point from which I chain measurement on random sec.line S.89°41'W., 8.70 chs. to

Set temp. sec. cor. Thence return to triangulation point. Chaining on random sec.line being impracticable E.of this triangulation point at 58.70 ch. station I run an offset

58.70

40.00

Completion of Subdivision of Township 20 N., R. 19 W. North, 5.00 chs., thence N.89°41'E.21.20 chs. thence 5.00 chs. returning to random sec.line at South. A point 10 lks. N.of the cor.of secs. 28, 29, 32 and 33. 79.90 Thence I run, on offset to true line bet. secs. 29 and 32, as follows: North, 5.00 chs. thence S.89°45'W.21.20 chs. Descending over rough mountainous land. 11.50 chs. Dry wash, course SE. 21.20 chs. Thence South 5.00 chs. returning to true line bet. secs. 29 and 32, at Triangulation point hereinbefore described, 230,0 ft.below 21.20 cor.of secs. 28, 29, 32 and 33. Thence chaining measurement S.89° 45' W. Ascend. 39.95 Set an iron post 3 ft.long, 1 in. diam., 10 ins. in the ground to solid rock, in a mound of stone, for \frac{1}{2} sec. cor., with a brass cap, marked 1 S 29 and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor. Thence measuring by triangulation hereinbefore described. 79.17 Flag point of triangulation hereinbefore described, on top of ridge bearing NW.and SE., 1600 ft. above triangulation point. Thence chaining measurement. The cor. of secs. 29,30, 31 and 32. 79.90 Land, rough and mountainous. Soil, stony, 4th rate. Undergrowth, greasewood, catclaw and juniper. Transitman. Lines run by Guy H.Richardson, U.S.Surveyor, as follows: From the cor.of secs. 29,30,31 and 32, I run

Chains. N.89° 53' W., on a random line, bet. secs.30 and 31. Set temp. witness cor. to 1 sec. cor. 38.25 Intersect the west bdy.of the Tp., 14 lks.N.of the cor.of 78.45 secs. 25.30,31 and 36, described in Book "A." Thence I run. S.89°59'E., on a true line, bet. secs.30 and 31. Descend over rough mountainous land. Canyon, 20 lks.wide, course S. 15° W., 780 ft. below sec. 21.48 cor.; ascend. Point for 4 sec.cor.falls on perpendicular cliffs, bear Na 38.45 and S. Impracticable to set iron post at this point. Top of cliffs, 440 ft. above canyon, set an iron post,3 40.20 ft. long, 1 in. in diam., on surface rock, in a mound of stone, for witness cor. to 4 sec. cor., with brass cap, marked and raise a mound of stone, 2 ft.base, 12 ft. high, N. of cor. Continue to ascend. Top of ridge, bears NW. and SE., 387 ft. above $\frac{1}{4}$ sec.cor. 71.45 Descend. Cor. of secs. 29,30,31 and 32, 150 ft. below top of ridge. 78:45 Land mountainous. Soil, stony, 4th rate. Undergrowth, greasewood, cactus and scrub cedar. On account of steep descent over cliffs on line bet.secs. 29 and 30, N.0°2' W., from the cor. of secs. 29,30,31 and 32, I triangulate as follows: 40.00 Set flag onsec. line N.0°2'W., from sec.cor. From sec.cor.lay off a base N.56° 16' W., 9.70 chs (a longer base is impracticable). From NW. end of base, flag brs. N. 12°22'E. Included angles are 56°14',111°22' and 12°24',

the sum of which is 180° 00'.

COR.OF SECS. 29,30,31&32.

2	2. Compl	etion of Subdivision of Township 20 North Range 19 W.
	Chains.	Therefore dist. on sec.line from sec.cor.to
		Flag is obtained by
	42.07	Sine 111° 22' x base or $.93127 \times 9.70 = 42.07$ chs. sine 12°24' .21474 243 ft.below sec.cor. Flag point, from which I return on
		sec.line, S. 0° 2' E., 2.07 chs. to
	40.00	Set an iron post, 3 ft.long, 1 in. in diam., on surface
	,	rock, in a mound of stone for \(\frac{1}{4} \) sec.cor., with a brass
		cap, marked 2 S 30 S 29
		and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Ascend.
	42.97	Flag point on top of ridge, bears E.and W., 225 ft. above
		1 sec. cor. Descend.
	69.09	Canyon, 40 lks.wide, course S. 75° E., 540 ft. below top
		of ridge; Ascend.
	80.00	170 ft. above canyon, set an iron post, 3 ft. long, 2 ins.
		in diam., on surface rock, in a mound of stone, for
		cor.of secs.19,20,29 and 30, with a brass cap, marked T 20 N R 19 W S 19 S 20
•		S 30 S 29 1915 and raise a mound of stone, 2 ft. base, 1½ ft. high,
		W.of cor.
	,	Land, rough and mountainous. Soil, stony, 4th rate.
		Undergrowth, cactus and greasewood. Dec. 9,1915.
		Dec. 10,1915. At the cor.of secs.19,20,29 and 30, at 10h.,
		Om.,a.m.,l.m.t.,set off 22°50½'S.on the decl.arc;35°6'
	: (N.on the lat.arc, and determine a meridian with the solar.
		Thence I run,
		N.89°45'E.on a random line, bet.secs.20 and 29.
	• .	Set temp. sec.cor.
	79.90	Intersect N.and S. line 10 lks.S.of the cor.of secs.20,21,
	,	28 and 29. Thence I run, S.89°41'W., on a true line, bet. secs. 20 and 29.
	• .	0.05 41 11., on a or no trino, bo 0. 5000 , 20 and 25.

Ascend over rough, mountainous land.

		eletion of Subdivision of Townshin 20 North Range 10 West 23
	Chains. 28.20	Top of sput, slopes S.,880 ft.above sec.cor.; descend.
-	34.95	Canyon, course S.20°E., 223 ft.below spur; ascend.
	39.95	Set an iron post, 3 ft.long, 1 in. in diam., on surface
		rock, in a mound of stone, for 2 sec. cor., with a brass
	*** <u>*</u> ********************************	cap, marked
	•••	s 29 1915
		and raise a mound of stone, 2 ft. base, 1 ft. high, N. of cor.
	40.00	Top of low spur, slopes S., 55 ft. above canyon; descend.
	42.00	
	55.00	Box canyon, 30 lks.wide, course S.20°W. 144 ft. helow top
4		of spur; ascend slightly.
:	66.40	Point of rocks, bears N.and S.; descend.
	75.20	Canyon, 20 lks.wide, course S.10°E., 268 ft. below point of
-		rocks; ascend.
-	79.90	Cor. of secs. 19,20,29 and 30, 113 ft. above canyon.
		Land, rough and mountainous. Soil, stony, 4th rate.
Na		Undergrowth, cactus, juniper and greasewood. December 10, 1915.
ŧ	¥ * · · · · · · ·	Dec. 11,1915: At the cor.of secs. 19,20,29 and 30, at 9h.
	-	Om. a.m., l.m.t., set off 22° 55'S., on the decl.arc;
		35° 6' N.on the lat.arc, and determine a meridian with
		the solar.
		Impracticable to chain measurement on random line, bet.
		secs.19 and 30, N.89° 59'W., from this cor.; therefore,
		I triangulate as follows:
		Set flag on random sec.line, N. 89°59'W.from sec.cor.
	COR	From sec.cor. lay off a base N.0°1'W.,27.29 chs.
٠.	0 /# SEC	From N.end of base, flag brs.S.60°45'W.
•	E Pour S	Included angles are 89°58',60°46' and 29°16', the
-	25 N.89 59	W. cor. of secs sum of which is 180°00'
	0.64 0.64 0.64 0.64 0.64 0.64 0.64 0.64	Therefore dist. on random sec.line from sec.cor.
·		to flag is obtained by
		sine 60°46' x base or .87264 x 27.29=48.71chs sine 29° 16' .48888
	48,71	Flag point; thence by chain measurement.

Completion of Subdivision of Township 20 North Range 19 West 49.00 Set temp. witness cor. to a sec. cor. at this point, as the true point for $\frac{1}{4}$ sec.cor. is inaccessible. 51.65 Discontinue chain measurement on random line at this point, owing to chiffs, and triangulate as follows: Set flag on random sec.line N.89°59'W.at its intersection with W.bdy.of Tp. From triangulation point lay off a base, S.12°45'E., 6.33 chs. (longer base impracticable). From SE. end of base, flag brs.N.77° 35'W. Included angles are $102^{\circ}46'$, $64^{\circ}50'$ and $12^{\circ}24'$, the sum of which is 180°00'. Therefore dist.on random sec.line from triangulation point to flag is obtained by sine $64^{\circ}50'$ x base or $.90507 \times 6.33 = 26.68$ chs. sine $12^{\circ}24'$.2147451.65 chs. + 26.68 chs. = \cdot .78.33 Flag point on W.bdy.of Tp., 25 lks. N. of the cor. of secs. 19, 24,25 and 30; described in Book "A." Thence I run, N.89°50'E., on a true line, bet. secs.19 and 30. Ascending over rough, mountainous land. Measuring by triangulation hereinbefore described. 26.68 Triangulation point. Thence by chain measurement. N.89°50'E. on a true line, bet. secs. 19 and 30. Ascend over rough, mountainous land. True point for asec.cor.is inaccessible; therefore, at 29.33 The nearest accessible point on sec.line suitable for establishment of witness cor., I set an iron post, 3 ft. · long, l in.in diam., 6 ins.in the ground, to solid rock, in a mound of stone, for witness cor. to 2 sec.cor., with a brass cap, marked 🗼 S 19 WC

> s 30 1915

and raise a mound of stone, 2 ft.base, $l_2^{\frac{1}{2}}$ ft.high, N. of cor.

288**9**

Completion	of.	subdivision	of	T.	20	N. R.	19 W.
			~~		., .	7 . A A T . T .	

		Completion of subdivision of T. 20 N., R. 19 W. 25				
	Chains					
,	29.62	Flag point: Top. of ridge, brs. N. and S., 1030 ft. above sec. cor. on Tp. line. Thence by triangulation measurement, hereinbefore described.				
	38.3 3 78.3 3	True point for 1 sec. cor. og rock cliffs, brs. N. and S.; inac cessible. Triangulation point, Cor. of secs. 19, 20, 29 and 30, 1400 ft.				
		below top of ridge.				
	•	Land, rough mountainous.				
	·	Soil, stony, 4th. rate.				
		Undergrowth, cactus, greasewood and juniper.				
		N. 0° 2' W. bet. secs. 19 and 30.				
		Asc. over rough mountainous land.				
	9.83	Gulch, course S. 60° E., continue to asc.				
	27.30	Top of ridge, bears E. and W., 750 ft. above sec. cor.,				
		desc. N. slope.				
	40.00	Set an iron post, 3 ft. long, 1 in. in diam,, on surface				
		rock, in a mound of stone, for 1/4 sec. cor., with a				
	·	brass cap, marked				
		1/4 S 19 S.20				
	'	1915				
		and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high,				
	·	W. of cor.				
	45.08	Draw, course E., 570 ft. below top of ridge, asc.				
	48.00	Top of low spur, slopes E., 27 ft. above draw, desc.				
	58.07	Draw, course N. 65° E., 310 ft. below spur, asc.				
	64.30	Top of spur, slopes N. 50° E., 110 ft. above draw, desc.				
	80.00	300 ft. below spur, set an iron post, 3 ft. long, 2 ins.				
		in diam., 6 ins. in the ground to solid rock, in a				
		mound of stone, for cor. of secs. 17, 18, 19 and 20,				
- (l l					

and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.

Land, rough mountainous.

with a brass cap, marked ...

BOOK 2889

26	Completion of subdivision of T. 20 N., R. 19 W.
Chains	Soil, stony, 4th. rate.
. "	Undergrowth, cactus, catclaw and scrub oak.
	December 11, 1915.
	December 13, 1915; I commonde At the cor. of secs. 17;
	18, 19 and 20, and at 9h. Om. a. m., 1.m.t., set off
	23° 5' S. on the decl. arc, and 35° 7' N. on the lat.
	arc, and determine a meridian with the solar, Thence I run, N. 89° 41' E. on a random line bet. secs. 17 and 20.
40.00	Set temp. 1/4 sec. cor.
79.92	Intersect N. and S. line 5 lks. N. of the cor. of secs.
	16, 17, 20 and 21.
	Thence I run
	S. 89° 43' W. on a true line bet. secs. 17 and 20.
	Asc. over rough mountainous land.
25.10	Top of spur, slopes N. 10° W., 440 ft. above sec. cor.,
	desc.
32.64	Draw, course NE., 350 ft. below top of spur, asc.
34.90	Top of spur, slopes N., 43 ft. above draw, desc.
39.96	Set an iron post, 3 ft. long, 1 in. in diam., 10 ins. in
	the ground to solid rock, in a mound of stone, for 1/4
	sec. cor., with a brass cap, marked
	1/4 S 17
	S 29
	1915
•	and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high;
	N. of cor.
40.75	Draw, course NE., 34 ft. below top of spur, asc.
50.90	Top of spur, slopes N., 250 ft. above draw, desc.
63.40	Draw, course N. 5° E., 240 ft. below top of spur, asc.
77.30	Top of spur, slopes N. 10° W., 250 ft. above draw, desc.
79.92	Cor. of secs. 17, 18, 19 and 20, 86 ft. below top of spur.
	Land, rough and mountainous.
	Soil, stony, 4th. rate.
	Undergrowth, greasewood, cactus and catclaw.
	No timber Dec. 13, 1915.
	200. 20, 2020

	Completion of subdivision of T. 20 N., R. 19 W. 27					
Chains	Dec. 14, 1915; (agramme; At the cor. of secs. 17, 18,					
	19 and 20, at 9h. Om., a. m., 1.m.t., set off 23°					
• .	81 S. on the decl. arc, 35° 7' N. on the lat. arc,					
	and determine a meridian with the solar. Thence I run,					
	S. 89° 50' W. on a random line bet. secs. 18 and 19.					
40.00	Set temp. 1/4 sec. cor.					
78.23	Intersect the W. bdy. of the twp. 12 lks. N. of the cor.					
	of secs. 13, 18, 19 and 24, described in Book "A."					
	Thence I run					
	N. 89° 45' E. on a true line bet. secs. 18 and 19.					
	Desc. over rough mountainous land.					
9.30	Head of short canyon, course N. 70° E., 300 ft. below					
	sec. cor., asc.					
17.60	Point of spur, slopes NE., 60 ft, above canyon, desc.					
33.60	Head of canyon, course NE., 240 ft. below spur, asc.					
38.23	23 Set an iron post, 3 ft. long, 1 in. in diam., on surface					
	rock, in a mound of stone, for 1/4 sec. cor., with a					
	brass cap, marked					
	1/4 S 18					
	S 19					
	1915					
	and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high,					
12 20	N. of cor.					
42.60	Top of ridge, bears NE. and S., 190 ft. above canyon, desc.					
73.30	Canyon, 20 lks. wide, course N. 80° E., creek 3 ft. wide					
 5 0.05	in bottom, 900 ft. below top of ridge, asc.					
78,23	Cor. of secs. 17, 18, 19 and 20, 57 ft. above canyon. Land rough, mountainous. Soil, stony, 4th rate. Undergrowth, greasewood, cactus, & catclaw. No timber.					
	At the core of spec. It was this rebreat apparent noon,					
	I set off 23° 10' S. on the decl. arc, and observe the					
	sun on the meridian for lat. The resulting latitude is					
	35° 7' N., Dec. 14, 1915.					
	N. 0° 2' W. bet. secs. 17 and 18.					

Desc. over rough mountainous land.

8.65

Canyon, 20 lks. wide, course E., small creek in bottom,

28

Chains

134 ft. below sec. cor., asc. SE. slope.

40.00

Set an iron post, 3 ft. long, 1 in. in diam., 10 ins. in the ground, to solid rock, in a mound of stone, for 1/4 sec. cor., with a brass cap, marked

and raise a mound of stone, 2 gt. base, $1\frac{1}{2}$ ft. high, W. of cor.

54.40

Top of ridge, bears NE. and SW., 400 ft. above canyon, desc. NW. slope.

58.75

Gulch, course NE., 180 ft. below top of ridge, asc.

64.00

Top of spur, slopes NE., 160 ft. above gulch, desc.

80.00

234 ft. below top of spur, set an iron post, 3 ft. long, 2 ins. in diam., 20 ins. in the ground to solid rock, in a mound of stone, for cor. of secs. 7, 8, 17 and 18, with a brass cap, marked

and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.

Land, rough mountainous.

Soil, stony, 4th. rate.

Undergrowth, cactus, juniper and greasewood.

Guy H.Richardson, U.S. Surveyor,

Dec. 14, 1915.

Dec. 15, 1915; lines run by Hugo Price, U.S. Transitman, as follows:

9h. 0m., a. m., 1.m.t., set off 23° 18½'S. on the decl. arc, and 34°7½' N. on the lat. arc, and determine

a meridian with the solar, and run

N. 89° 43' E. on a random line bet. secs. 8 and 17.

-40.00 Set temp. 1/4 sec. cor.

79.90

Intersect N. and S. line 10 lks. N. of the cor. of secs. 8, 9, 16 and 17.

Thence I run

		Completion of subdivision of T. 20 N., R. 19 W.	2
-	Chains	S. 89° 47' W. on a true line bet. secs. 8 and 17.	Ī
		Asc. over rolling mountainous land.	
	39.95	Set an iron post, 3 ft. long, 1 in. in diam., 10 ins. in	İ
	•	the ground to solid rock, in a mound of stone, for 1/4	
		sec. cor., with a brass cap, marked	
		1/4 S 8	
		S 17	
		1915	
		and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high,	
		N. of cor.	
	52.00	Top of spur, slopes NW., 586 ft. above sec. cor., desc.	
	69.48	Ravine, course NE., 180 ft. below top of spur, asc.	
•	76.15	Top of spur, slopes NE., 95 ft. above ravine, desc.	
	79.81	Gulch, course N., 12 ft. below top of spur.	
	79.90		
		Land, rolling mountainous.	
		Soil, stony, 4th. rate.	
		Undergrowth, greasewood, juniper and catclaw.	
		S. 89° 45' W. on a random line bet. secs. 7 and 18.	
,	40.00	Set temp. 1/4 sec. cor.	
	78.56	Intersect the W. bdy. of the twp. 10 lks. N. of the cor.	
		of secs. 7, 12, 13 and 18, described in Book "A".	
	•	Thence I run	
		N. 89° 41' E. on a true line bet. secs. 7 and 18.	
		Desc. over rolling mountainous land.	
•	10.43	Ravine, course N., 321 ft. below sec. cor., asc.	ĺ
	13.30	Top of spur, slopes N., 50 ft. above ravine, desc.	
	23.75	Ravine, course N., 100 ft. below top of spur, asc.	
	3560	Spring creek, 3 lks. wide, course NW.	
	38.56	Set an iron post, 3 ft. long, 1 in. in diam., 10 ins.	
		in the ground to solid rock, in a mound of stone, for	
•	,	1/4 sec. cor., with a brass cap, marked	
		1/4 S 7	•

S 18 1915

3	0	Completion of subdivision of T. 20 N., R. 19 W.
	Chains	and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high,
		N. of cor.
	65. 55	Top of spur, slopes NW., 377 ft. above ravine, desc.
	78.56	Cor. of secs. 7, 8, 17 and 18, 335 ft. below top of spur.
		Land, rolling mountainous.
:		Soil, stony, 4th. rate.
		Undergrowth, greasewood, cactus and juniper. Hugo Price,
		Ū.S.Transitman,
		Line run by Guy H. Richardson, U.S. Surveyor, as follows:
•		From the cor. of secs. 7, 8, 17 and 18, I run
		N. 0° 2' W. bet. secs. 7 and 8.
i		Desc. over rolling land.
	29.50	Leave hills, enter level land, bears E. and W., 300 ft.
		below sec. cor.
	37.75	Center of Secret Pass wash, 1 ch. wide, course S. 75° E.
,	40.00	Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in
		the ground for 1/4 sec. cor., with a brass cap, marked
•		1/4 S 7 S 8
		1915
		and raise a mound of stone, 2 ft. base, $1\frac{1}{8}$ ft. high,
		W. of cor.
		At apparent noon at the $1/4$ sec. cor., I set off 23° $13\frac{1}{2}$ '
		S. on the decl. arc, and observe the sun on the
		meridian for lat. The resulting latitude is 35° 8' N.,
		Dec. 15, 1915.
	54.98	Leave level land, asc. hills, bear E. and W.
	80.00	330 ft. above level land, set an iron post, 3 ft. long,
		2 ins. in diam., 7 ins. in the ground to solid rock,
		in a mound of stone, for cor. of secs. 5, 6, 7 and 8,
		with a brass cap, marked
		T 20 N R 19 W S 6 S 5
	1	

and raise a mound of stone, 2 ft. base, $l^{\frac{1}{2}}$ ft. high W. of cor.

Land, rolling mountainous.

	Completion of subdivision of T. 20 N., R. 19 W. 31						
Chains	Soil, stony, 4th. rate.						
	Undergrowth, greasewood, cactus and catclaw. Guy H. Richardson, U. S. Surveyor. Dec. 15,1915.						
•	Dec. 16, 1915; Lines run by Hugo Price, U.S. Transitman, as follows: At the cor. of secs. 5, 6, 7, and 8, and at						
,	10h. 0m., a. m., 1.m.t., set off 23° 16' S. on the						
	decl. arc, and 35° 8½' N. on the lat. arc, and determine						
	a meridian with the solar, Thence I run,						
·	N. 89° 47' E. on a random line bet. secs. 5 and 8.						
40.00	Set temp. 1/4 sec. cor.						
79.98	Intersect N. and S. line 10 lks. N. of the cor. of secs.						
	4, 5, 8 and 9.						
	Thence I run						
	S. 89° 51' W. on a true line bet. secs. 5 and 8.						
	Desc. over rolling, land.						
19.80	Ravine, course SE., 444 ft. below sec. cor., asc.						
28:12	Top of low spur, slopes SE., 140 ft. above wash, desc.						
33.06	Dry wash, course SE., 52 ft. below top of spur, asc.						
39,99	Set an iron post, 3 ft. long, 1 in. in diam., 10 ins. in						
	the ground, to solid rock, in a mound of stone, for 1/4						
	sec. cor., with a brass cap, marked						
	1/4 S 5						
	S 8 1915						
	and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high,						
	N. of cor.						
68.70	Top of spur, slopes SE., 515 ft. above wash, desc.						
79.98	Cor. of secs. 5, 6, 7 and 8, 194 ft. below top of spur.						
-	Land, rolling mountainous.						
	Soil, stony, 4th. rate.						
	Undergrowth, juniper, greasewood, catclaw-and-scrub oak.						
1	 						

Dec. 16, 1915: at the cor. of secs. 5, 6, 7 and 8, at apparent noon, I set off 23° 17' S. on the decl. arc, and observe the sun on the meridian for lat. The re-

32	Completion of subdivision of T. 20 N., R. 19 W.
Chains	sulting latitude is 35° 8½' N.
	S. 89° 41' W. on a random line bet. secs. 6 and 7.
40.00	
78.45	
	od secs. 1, 6, 7 and 12, described in Book "A."
	Thence I run
	N. 89° 39' E. on a true line bet. secs. 6 and 7.
	Asc. over rolling land.
4.60	
19.30	
29.85	
38.45	
	l in. in diam., 10 ins. in the ground fo solid rock,
	in a mound of stone, for 1/4 sec. cor., with a brass
	cap, marked
	1/4 S 6
	S 7 1915
	and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high,
	N. of cor., asc.
49.45	Top of low spur, slopes SE., 46 ft. above 1/4 sec. cor.,
	desc.
50.90	Foot of 115 ft. descent, asc. slightely,
67.00	Top of 49 ft. ascent, desc.
70.10	Foot of 32 ft. descent, ravine, course S., asc.
78.45	Cor. of secs. 5, 6, 7 and 8, 142 ft. above ravine.
	Land, rolling.
	Soil, stony, 4th. rate.
	Undergrowth, greasewood; juniper, catclaw and scrub oak.
	Hugo Price, U. S. Transitman,
	Dec. 16, 1915.
	Dec. 15, 1915; line run by Guy H. Richardson, J. S. Surveyor as follows:
	N. 0° 2' W., on a true inline; bet. secs. 5 and 6. Asc. over rough mountainous land.

	Comple Chains.	tion of Subdivision of Township 20 North Range 19 West 37
. 2	13.45	Top of ridge, brs. NW. and SE., 105 ft. above sec.cor.;
	it like	- descend to a substitution of collections and the collections are the
	19.83	Head of canyon, course E., 47 ft. below top of ridge; as-
		cend.
	33.75	Top of 350 ft. ascent; descend.
	40.00	Foot of 240 ft. descent, set an iron post, 3 ft. long,1
		in. in diam., 16 ins. in the ground to solid rock, in a
		mound of stone, for \frac{1}{4} sec.cor., with a brass cap, mark
		ed. 2 8 6 8 5 1915
		and raise a mound of stone, 2 ft. base, 1; ft. high, W.
		of cor.; ascend.
	48.18	Top of spur, slopes E., 275 ft. above 2 sec.cor.; descend.
	53.86	Head of ravine, course E., 68 ft. below top of spur; ascend.
	58.36	Top of ridge, brs. NW. and SE., 145 ft. above ravine; de-
4		scend.
41 11 700		The intersection of this sec.line, with the N.bdy.of Tp.
		(5th.Standard Parallel N.) will fall on face of cliffs
		where the establishment of a closing cor. would be im-
		practicable; therefore, at
	76.72	Set an iron post, 3 ft.long, 2 ins. in diam., 6 ins.in the
	Service Service	ground to solid rock, in a mound of stone, for witness
		cor.to closing cor.of secs. 5 and 6, with a brass cap,
		marked CC S6 S5 T 20 N R 19 W
		w'c 1915
		and raise a mound of stone, 2 ft. base, 12 ft. high, S. of
	· · · · · · · · · · · · · · · · · · ·	nuli cor. 414 film not proprio piene proprio de la companya de la companya de la companya de la companya de la
	76.80	Wash, course E., 30 lks. wide,440 ft. below top of ridge;
	(1.48	% ascand.
	81.17	Base of exceptionally steep cliffs, brs. E. and W.
	81.92	Intersect the 5th. Standard Parallel N., 2.83 chs. N.89°1'
		W.of true point for standard 1 sec. cor., or 2.90 chs.
	e, to describe the same of the control of	N.89°1'W.of the reestablished witness cor.to standard
		\$\frac{1}{4}\$ sec.cor.to secs.32,T.21 N.,R.20 W.,described in Book "B."
. 1		•

34. Completion of Subdivision of Township 20 North Range 19 W

The point of intersection falls on cliff rocks, 58 ft.above wask, an unsuitable location for establishment of closing cor. of secs. 5 and 6.

Land, rough, mountainous.

Soil, stony, 4th rate.

Undergrowth, greasewood, cactus, and scrub cedar.

Dec. 16,1915.

Guy H.Richardson, U.S.S.

Boundaries of West half of T. 20 N., R.19 W. Latitudes, departures, and closing errors.

			1			
Line designated.	Bearing.	Dist.	Latitude	es.	Depar	tures.
			Ν.	s.	E.	W.
South bdy.of Tp.	s.89°41'W.	160.36		.88	,	160.36
	N.89°19'W. S.89°33'W.		.48	70	. (.	39.96 38.31
West bdy.of Tp.	North	173 71	473.71	.30		50.51
		4/30/2			47 44	2 32
North dy, of Tp.	N.77°28'E.	42.45	9.22	7 70	41.44	
	<u>s</u> .89°01!E.		le de la company	1.38	80.13	•
	East	80.00		0.0	80.00	
	S.89°58'E.			.02	36.67	
Subdivisional	S.0°06' E.	40.59		40.59	0.07	
bdy.	S.0°05' E.	40.03		40.03	0.06	
	S.0°04'E.	80.16		80.15	0.10	
	S.0°09' W.			40.06		0.11
	S.0°10' E.			39.96		
· and · ·	South	39.95		39.95		
	S.0701' E.			39.98	0.01	
		1 77.30			-	0.10
				40.03		
	s.0°06' W.	, ,,,,		39.92	0.07	0.07
	S.0°01' E.			40.11		!·
	S.0°12' E.	40.00]	40.00	0.14	
Convergency	The Visit Asset			in the second	0.25	**
TotalsI			483.41	483.37	239.00	238.91
			483.37		238.91	
Error in	latitude.	` -	0.04		1	
	departure.	Data tud	. *** ()	• - 1 1 1 1 _	0.09	
=====================================		<u> </u>	*			

GENERAL DESCRIPTION.

The west ½ of this township is rough and mountainous, with the exception of secs. 4 and 5, which are rolling. The soil is of very low grade, and the land is generally covered with rock, making it unsuitable for farming purposes. There are no settlers in the W.half of Tp., but considerable prospecting has been done, and the district is generally mineralized. There is water in secs. 4 and 17. The undergrowth is cactus, greasewood and some scrub juniper, oak and cedar.

3/2

For Certificates of U.S. Surveyor and U.S. Transitman, See Book "C" of this group

FINAL OATH OF UNITED STATES SURV	
See Book "C" of this Group.	
I,, U. S. Surveyor, do solem	nly swear that, in pursuance
of special instructions received from the U.S. Surveyor General for	
bearing date of the, 191 , I hav	e well, faithfully, and truly,
in my own proper person, and in strict conformity with said instructions,	the Manual of Surveying
Instructions, and the laws of the United States, surveyed all those parts or p	
of t	he
Meridian, in the State of	
the foregoing field notes as having been executed by me, and under my desolemnly swear that all the corners of said survey have been established and ance with the Manual of Surveying Instructions, and the special written instructions.	perpetuated in strict accord-
General for and in the specific manner describe	
the foregoing are the original field notes of such survey.	•
	·
	U. S. Surveyor.
Subscribed by said , and sworn to before me	
this	
	, <u> </u>

SEAL SEAL	
APPROVAL.	
OFFICE OF THE UNITED STATES SURVE	EYOR GENERAL,
Phoenix, Arizo	na <i>February 26</i> , 1917.
The foregoing field notes of the Resurvey of the Meridions	
Sections 34,27,22,15,10 and 3, and survey	
of the Subdivision of Township 20 North, Ran	ge 19 West (west half
of the Gila and Salt River Base and Meridia	n. in the State of
Arizona.	
A.A.A.U.Y. 1000. \$	·
executed by Guy H.Richardson, U.S.Surveyor, and Hugo Pri	ce, U.S. Transitman,
under special instructions dated January 4,1915, for Group 4	3, having been
critically examined, and the necessary corrections and explanations made, tresurveys and	the said field notes, and the
surveys they describe, are hereby approved.	
Mank 13	V. S/rot
	U. S. Surveyor General.
I certify that the foregoing transcript of the field notes of the above desc	PLDOG GIIPTOTG IN
has been correctly copied from the original	

U.S. Surveyor General. of Arizona.