BOOK 2876

160.24.1377

Book "A"

Survey Exteriors

FIELD NOTES

OFTHE

	Retracement and Survey of Webt half of N. bdy. of T. 17 NR18W.,
	Survey of the
ð	North bdy. of T. 17 N., R. 20 W.,
2876	North bdy. of T. 18 N., R. 20 W.,
y.	West bdy. of T. 19 N., R. 20 W.,
	North Bdy. of T. 19 N., R. 20 W.,
	North bdy. of T. 19 N., R. 21 W.,
	East bdy. of T. 20 N., R. 20 W. and
	West bdy. of T. 20 N., R. 20 W.
·•• •••	and Retracement and Survey of the
	West half of N. bdy. of T. 19 N R. 19 W.
	Of the Gila and Salt River Base and Meridian,
	In the State of Arizona.
	EXECUTED BY
	Guy H. Richardson, and Otis Ross, U.S. Surveyors,
Ñ	and
	Hugo Trice, U. S. Transitman,
	under instructions dated January 4, , 1915,
	issued by the United States Surveyor General to govern surveys included in
	Group No. 43, which were approved by the Commissioner of the General Land
	Office, January 22, , 1915 and Feb. 15,1915.
	Retracements and
	-Surveys commenced Pebruary 8, , 1915
)	Retracements and Surveys completed December 16, , 1915.
	Executed under assignment Instructions dated Jan 31-1915 and Nov. 29-1915.

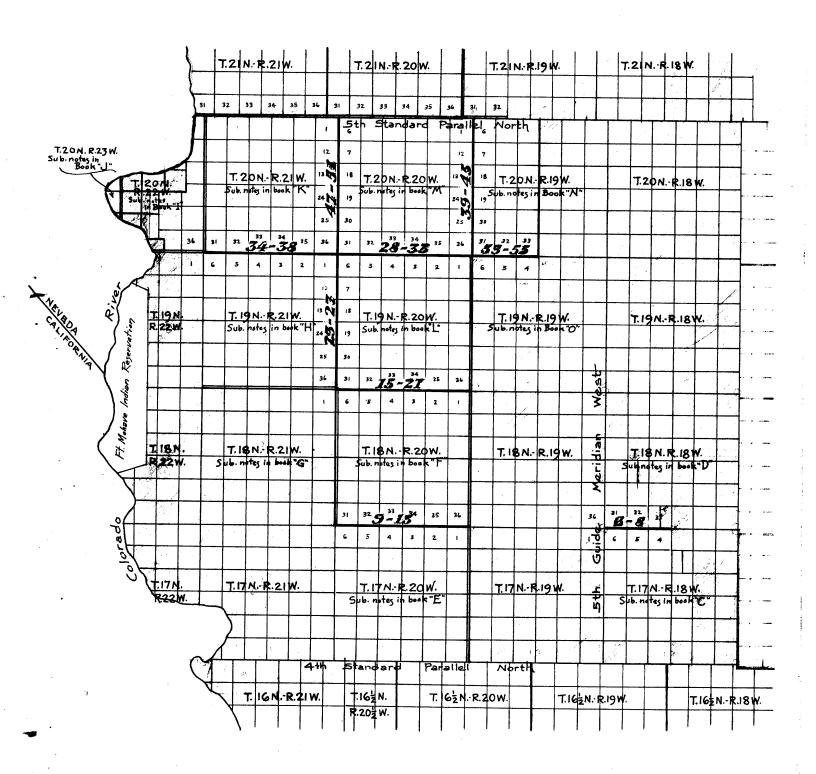
Book "A" Group 43.

See Special Index.

<i>;</i>	IND	EX C	IAGF	RAM.	
Townsh	nip		., Range		
6	5	4	3	2	1
2	8	9	10	11	12
18	17	16	15	· 14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	. 33	34	35	36

BOOK 2876

SPECIAL INDEX DIAGRAM.
Book "A" = Group 43
Surveys described in this Book (indexed)
Restracements, Resurveys described in Book "B" Group 43.
Accepted surveyed lines.
Shaded area surveyed as per accepted plats on file.
Surveys, executed under Group 42
Surveys, Retracements + Resurveys executed under Group 44
- Surveys, Retracements + Resurveys executed under Group 46.
Subdivision & Meander lines Surveyed, Retraced or Resurveyed under Group 47.



SHOWING THE RESPECTIVE SURVEYS, RETRACEMENTS AND RESURVEYS OF STANDARD LINES AND TOWNSHIP EXTERIOR LINES EXECUTED BY EACH SURVEYOR AND TRANSITMAN UNDER INSTRUCTIONS FOR GROUP 43, ARIZONA.

	ļ		•	G.H.R.	
G.H.R.	T.20N. R.22W.	ը: T.20N: R.21W. I	ผู [้] T. 20 W: R.20 W. ช	หู่ T.20N-R.19W.	T.20N: R.18W.
	G.H.R	0.R. G.H.R.	H.P.	ж Н.Р.	
River.	T.19N. R.22W.	T.19 NR.21 W.	g T.19 N. R.20W.	T.19NR.19W.	T.19N-R.18W.
£)		O.R. G.H.R.	G.H.R.	idian	
ope.	T.18 N. R.22 W.	T.18 N R.21W.	gi T.18N.R.20W. V	O.R. O.R. N. St. W.	T. 18 N R.18 W.
	T.17N. R.22W.	T. 17 N. R. 21 W.	T.17 N. R.20W.	ชั่ T.17N:R.19W.	T.17 N. R.18W.
	(\int	4th S	tandard Parallel	North
			4th S	tandard Parallel	North

	Surveyed	ъу				
				•	Guy :	H.Richardson,
	Retraced	or	Resurveyed	by	,	U.S. Surveyor.
America Contraction of the second of the sec	Surveyed	ру				
					Otis	Ross, U.S., Surveyor.
	Retraced	or	Resurveyed	bу		
The state of the s	Surveyed	bу				
7					Hugo	Price, U.S. Transitman.
	Retraced	or	Resurveyed	bу		

BOOK 2876

FINAL CERTIFICATE OF U.S.SURVEYORS AND TRANSITMEN.

We, the undersigned, hereby certify on honor that, in pursuance of special instructions received from the U.S.Surveyor General for Arizona, bearing date of January 4, 1915, we have well, faithfully and truly, in our own proper persons, and in strict conformity with said instructions, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of

GROUP 43,

which are represented on the diagram on the reverse hereof as having severally been executed by us, and under our direction; and we do further certify on honor that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the U.S.Surveyor General for Arizona, and in the specific manner described in our respective field notes.

Juy V. Kichardson. Oto Ross. U.S. Surveyor.

Hugo Frice.
U.S. Transitman.

Retracement and survey of W. 2 of N. bdy. of T, 17 N., R. 18 E.

Chains Retracement and Survey commenced Feb. 8, 1915, and executed aby Otismer Ross, U. S. Surveyor, with a Young & Sons light mountain transit, No. 8477, with a Smith solar attachment. The horizontal limb is provided with two double verniers placed opposite to each other, reading to single minutes of arc, which is the least count of the verniers of the latitude and declination arcs. The instrument was approved by the Assistant Supervisor of surveys for Arizona and California on Jan. 31, 1915. Feb. 3, 1915; I examine the adjustments of the transit, and correct the level and collimation errors, then to test the solar apparatus, by comparing its indications resulting from solar observations made during a.m. and p,m. hours, with a meridian determined by observation on Polaris, I proceed as follows:

> At a point near my camp, in the SE. $\frac{1}{4}$ sec. 12, T. 17 N., R. 18 W. of the Gila and Salt River base and meridian, at 4h., p.m., l.m.t., I set off 16° 34' S. on the decl. arc, and 34° 52' on the lat. arc, and determine a meridian with the solar, and mark the meridian thus determined with a tack point on hub, about 5 chs. N. of my station.

At 10h., 34m., p.m., 1.m.t., I observe Polaris at western elongation and mark the line thus obtained with a tack point on a hub about 5 chs. northerly from my station. On Feb. 4, at 7h., a.m., I lay off the azimuth of Polaris 1º 24' to the east, and note that the meridian thus determined checks with the meridian established by solar observation, yesterday afternoon. At 8h., a.m., 1.m.t., I set off 16° 22' S. on the decl. arc, and determine a meridian with the solar, and note that same is identical with the meridian obtained by Polaris observation. Having tested the solar apparatus for a.m. and p.m. observations and found it to check with the meridian determined by Polaris observation, I conclude that the instrument is in good adjustment.

Refracement & survey of W. soft Nobaly of T. 17 N. R. 18 W.

West bet. secs. 4 and 33.

Chains

Feb. 8, 1915; I commence at the cor. of secs. 3, 4, 33 and 34, on the N. bdy. of the township, which is a malpais stone, 10 X 10 X 4 ins. above ground, marked and witnessed as described by the surveyor general. Preliminary to the survey, I retrace

40.00

Intersect } sec. cor., which is a lime stone, 14 X 8 X 4 ins., and set in a mound of stone, and marked and witnessed as described by the surveyor general.

Completion of survey of N.bdy.of Tp.17 North, Range 18 W. At th # sec. cor., above described, at 10h., 0m., a. m., 1.m.t., I set off 15° 9' S. on the decl. arc, 34° 54' on the lat. arc, and determine a meridian with the solar. Thence I run,

West on a random line on the W. half mile bet. secs. 4 and 33.

40.00 Set bemp. cor. of secs. 4, 5, 32 and 33.

At the temp. cor. of secs. 4, 5, 32 and 33, at apparent noon, I set off 15° $7\frac{1}{2}$ 'S. on the decl. arc and observe the sun on the meridian. The resulting lat. is 34° 54°.

West on a random line bet. secs. 5 and 32.

40.00 Set temp. } sec. cor.

Set temp. cor. for secs. 5, 6, 31 and 32. 80.00

Feb. 8, 1915.

Feb. 9, 1915.

At the temp. cor. of secs. 5, 6, 31 and 32, at 9h., 0m., a.m., l. m. t., I set off 14° 50' S. on the decl. arc, 34° 54' on the lat. arc, and determine a meridian with the solar. Thence I run,

West on a random line bet. secs. 6 and 31.

40.00 | Set temp. 1 sec. cor.

80.79

Intersect the 5th. Guide meridian W., 47 lks. S. of old cor. of Tps. 17 and 18 N., Rs. 18 and 19 W., which is a malpais stone, 14 X 12 X 8 ins. above ground, marked

Completion	of	survey of	N .,	boundary	of	T	17	N.,	R.	18	W.

Chains and witnessed as described by the surveyor general.

The falling of 47 lks. S. in 2½ miles of line gives a return true course of S. 89% 52° E.

From old cor. of Tps. 17 and 18 N., Rs. 18 and 19 W., hereinbefore described, I run

S. 89 52 E. on a true line bet. secs. 6 and 31.

Over mountainous land, covered with lava rock, and scant vegetation.

- 1.56 Desc. E. slope.
- 4.38 Foot of slight descent, gulch, course S., asc.
- 15.00 Top of spur, 72 ft. above gulch, bears SW. and NE., desc. slightely.
- 17.30 Begin to asc.
- 27.40 Gulch, course S., continue to asc.
- Set a malpais stone, 18 X 10 X 8 ins., 15 ins. in the ground for \(\frac{1}{4} \) sec. cor., marked \(\frac{1}{4} \) on N. face, and raise a mound of stone, 2 ft. base, $1\frac{1}{6}$ ft. high, N. of cor.
- 56.70 Top of 700 ft. ascent, bench, bears N. and S.
- 61.54 Leave bench, desc. SE. slope.
- 68.58 Foot of 50 ft. descent, ravine, 25 lks. wide, course SW., asc.
- ins., ll ins. in the ground for cor. of secs. 5, 6, 31 and 32, marked with 1 notch on W. edge and 5 notches on E. edge, and raise a mound of stone, 2 ft. base, 12 ft. high, W. of cor.

Land mountainous.

Soil stony, 4th. rate.

No timber.

Undergrowth cactus and low sagebrush and greasewood.

S. 89° 52' E. on a true line bet. secs. 5 and 32.

Over mountainous land, covered with scant vegetation,

desc.

35.05 Foot of 440 ft. descent, wash, course SE., asc.

pletion	of survey of N. boundary of T. 17 N., R. 18 W.
Chains	
40,00	Top of 70 ft. asc., set a malpais stone, 16 X 10 X 6 ins.
	12 ins. in the ground for 1 sec. cor., marked 1 on N.
	face, and raise a mound of stone, 2 ft. base, 12 ft.
	high, N. of cor., desc.
52.00	Foot of 137 ft. descent, box canyon, 100 ft. deep, 2 chs.
	wide, course SE., asc.
64.80	Top of malpais cliffs, 180 ft. above canyon, bear NW. and
	SE., desc.
80.00	452 ft. below top of cliffs, set a lime stone, 16 X 10 X
	8 ins., 12 ins. in the ground for cor. of secs. 4, 5, 32
	and 33, marked with 2 notches on W. edge and 4 notches
	on E. edge, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$
	ft. high, W. of cor.
	Land mountainous.
	Soil stony, 4th. rate.
	No timber.
	Undergrowth scattering cactus, sagebrush and greasewood.
And the second s	S. 89° 52' E. on a true line bet. secs. 4 and 33.
Account of the second of	Over rolling mountainous land, desc.
27.35	Foot of malpais cliffs, bear N. and S., 192 ft. below
	sec. cor., continue to desc.
38.10	Granite cliffs, bears N. and S., continue to desc.
40.00	Foot of 123 ft.descent, sec. cor.bet. secs. 4 and 33,
-	hereinbefore described.
	Land rolling broken mountains.
	Soil stony, 4th. rate.
	No timber.
1 1 1	Undergrowth scattering cactus and sagebrush.
	Feb. 9, 1915.
	Otis Rass,

U. S. Surveyor.

Chains

Survey executed by Otis Ross, U.S. Surveyor, commencing Feb. 21,1915, at the cor. of Ts. 17 and 18
N., Rs. 19 and 20 W., which is a stone, 10 X 12 X 12
ins. above ground, marked and witnessed as described by the Surveyor General. At this cor. at 9h. Om. a.m.l.mt. set off 10° 45' S. on the decl. arc, 34° 54' N. on the lat. arc, and determine a meridian with the solar.

Thence I run

West on a random line on the N. bdy. of the township, setting temp. 1/4 and sec. cors. at intervals of 40 chs., and at 160.00 chs. set temp. cor. for secs. 2, 3, 34 and 35.

Feb. 21, 1915.

Feb. 26, 1915; at the temp. cor. of secs. 2, 3, 34 and 35, at 9h. Om., a. m., 1.m.t., set off 8° 55' S. on the decl. arc, 34° 54' N. on the lat. arc, and determine a meridian with the solar. Thence I run, West on a random line on the N. bdy. of the township, continuing measurement, setting temp. 1/4 and sec. cors. at intervals of 40.00 chains, and at Intersect N. and S. line 224 lks. N. of old cor. of Tps.

480.76

17 and 18 N., Rs. 20 and 21 W., which is a malpais stone, 8 X 8 X 6 ins. above ground, marked and witnessed as described by the surveyor general.

The falling of 224 lks. N. in 6 miles of line gives a return course of N. 89° 44' E., thence I run N. 89° 44' E. on a true line bet. secs. 6 and 31. Over gently rolling land.

40.76

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 31

S 6 1915

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

55.80 Dry wash, course SW.

10 Chains Set an iron post, 3 ft. long, 3 ins. in diam., 24 ins. in 80,76 the ground for cor. of secs. 5, 6, 31 and 32, with a brass cap, marked T 18 N R 20 W S 31 | S 32 S6 | S5 1915 and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Land, rolling. Soil, stony and sandy, 3rd. rate. Undergrowth, cacti and greasewood. N. 89° 44' E. on a true line bet. secs. 5 and 32. Over rolling land. 27.27 Wagon road, Oatman to Topock, bears N. and S. 33.00 Gulch, course SW. Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in 40.00 the ground for 1/4 sec. cor., with a brass cap, marked 1/4 S 32 1915 and raise a mound of stone, 2 ft. base, 12 ft. high, N. of cor. Gulch, course SW., asc. 61.53 80.00 159 ft. above gulch, set an iron post, 3 ft. long, 3 ins. in diam., 24 ins. in the ground for cor. of secs. 4,

5, 32 and 33, with a brass cap, marked

1915

and raise a mound of stone, 2 ft. base, 12 ft. high, W. of cor.

Land, rolling.

Soil, stony, and sandy, 3rd. rate.

	North bdy. of T. 17 N., R. 20 W.	11
Chains		
	N. 89° 44' E. on a true line bet. secs. 4 and 33.	And a till the distance of the contract of
	Over rolling land, desc.	
10.14	Gulch, course SW., 28 ft. below sec, cor., asc.	
15.10	Top of spur, slopes SW., 45 ft. above gulch, desc.	and the second second
23.16	Gulch, course SW., n45 ft. below top of spur, thence over	
	rolling land.	
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	To a second
	1/4 S 33	
	S 4	
	1915	
	and raise a mound of stone, 2 ft. base, 1 ft. high,	
	N. of cor.	
60.10	Swale, bears N. and S., asc.	
72.15	Top of spur, slopes S., 68 ft. above swale; desc.	
75.04	Gulch, course SW., 16 ft. below top of spur, asc.	
80.00	40 ft. above gulch, set an iron post, 3 ft. long, 3 ins.	
	in diam., 24 ins. in the ground for cor. of secs. 3, 4,	
	33 and 34, with a brass cap, marked	
	T 18 N R 20 W S 33 S 34	
	S 4 S 3	
	1915	
	and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high,	i
	W. of cor.	
	Land, rolling.	
	Soil, stony and sandy, 3rd. rate.	
	Undergrowth; cacti and greasewood.	
·	N. 89° 44' E. on a true line bet. secs. 3 and 34.	
	Over rolling land, asc.	
40.00	143 ft. above sec. cor., 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 34 S 3 1915

North bdy. of T. 17 N., R. 20 W. and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, Chains N. of cor. Thence over rolling land. Swale, bears N. and S., asc. 50.06 Top of low spur, slopes S., 32 ft. above swail, desc. 54.05 Enter wash, course W. to SW., 35 ft. below top of spur. 58.50 Leave wash, course S. 80° W. 79.80 Set an iron post, 3 ft. long, 3 ins. in diam., 24 ins. in 80.00 the ground for cor. of secs. 2, 3, 34 and 35, with a brass cap, marked T 18 N R 20 W S 34 S 35 S 2 S 3 1915 and raise a mound of stone, 2 ft. base, 12 ft. high, W. of cor. Land, rolling. Soil, stony and sandy, 3rd. rate. Undergrowth, cacti and greasewood. N. 89° 44' E. on a true line bet. secs. 2 and 35. Asc, over rolling land. Top of spur, 40 ft. above sec. cor., slopes N., desc. 3.75 5.83 Gulch, course NW., 17 ft. below top of spur, asc. Top of spur, slopes S., 45 ft. above gulch, desc. 11.08 20.18 Wash, course NW, 12 ft. below top of spur, asc. Bench, bears NE. and SW., 100 ft. above wash. 33.60 Thence over level land. Set an iron post, 3 ft. long, 1 in. in diam., 26' ins. in 40.00 the ground for 1/4 sec. cor., with a brass cap, marked 1/4 S 35

and raise a mound of stone, 2 ft. base, $1\frac{1}{6}$ ft. high, N. of cor.

Thence over rolling land.

78.60 Wash, 75 lks. wide, course S.

Chains

V80.00

Set an iron post, 3 ft. long, 3 ins. in diam., 24 ins. in the ground for cor. of secs. 1, 2, 35 and 36, with a brass cap, marked

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

Land, level and rolling.

Soil, stony and sandy, 3rd. rate.

Undergrowth, cacti and greasewood.

N. 89° 44' E. on a true line bet. secs. 1 and 36. Asc. over rough mountainous land.

Asc. Over rough mountainous land.

40.00 Set a malpais stone, 16 X 8 X 10 ins. on surface rock, in a mound of stone, marked 1/4 on N. face, and raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor.

Iron post not available.

53.20 Top of spur, slopes S., 250 ft. above sec. cor., desc.

64.50 Gulch, course SE., 90 ft. below top of spur, asc.

68.10 Gulch, course S.

75.90 Top of cliff rocks, bear N. and S., 60 ft. above gulch, desc.

80.00 Old cor.of Ts.17 and 18 N., Rs. 19 and 20 W., 75 ft. below top of cliffs.

Land, rough mountainous.

Soil, stony, 4th. rate:

Undergrowth, cacti and greasewood.

February 26, 1915.

Otis Ross. U. S. Surveyor.

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North
                                                                    15
 Chains.
        Survey executed by Guy H. Richardson, U.S. Surveyor, commence
           ing March 9,1915, at the reestablished cor. of Ts.18
           and 19 N., Rs. 20 and 21 W., described in Book "B,"
           where at 4h.0m.p.m., l.m.t., set off 4°352'S.on the decl
           are; 34°59'on the lat.arc, and determine a meridian
           with the solar. (Instrument and tests of same described
           in field notes of Subdivisions of T.18 N., R.20 W., in
           Book "F.")
        Thence I run.
        East, on a random line, bet. secs.6 and 31.
 40.50 |Set temp. * sec.cor.
 80.50 Set temp.cor.for secs.5,6,31 and 32.
                                      March 9, 1915.
       March 11,1915: At the temp. cor. of secs. 5,6,31 and 32,
          at 9h.0m., a.m., 1.m.t., set off 3°56'S.on the decl.arc;
          34°59'on the lat.arc, and determine a meridian with
          the solar.
       Thence I run.
       East, on a random line, bet. secs. 5 and 32.
       continuing measurement from township cor.
120.50 Set temp. 4 sec.cor.
160.50 Set temp.cor.of secs.4,5,32 and 33.
       on account of cliffs E.of this cor. over which chaining
         is impracticable, I offset from Tp.line at this cor.
          as follows:
               South, 5.43 chs., thence
               East, 34.79 chs., thence
               North, 5.43 chs., returning to random township line
          at
195.29 Thence continue measurement
       East, on a random line, bet. secs. 4 and 33.
200.50 set temp. \frac{1}{4} sec.cor.of secs.4 and 33.
```

205.50 Impracticable to continue on random Tp. line E.of this

point; therefore, I offsett as follows:

.o Nor	th boundary of Township 18 North, Range 20 West.
Chains.	North, 17.15 chs., thence
	East 35.00 chs., thence
	South, 17.15 chs. returning to random Tp.line at
240.50	Set temp.cor.of secs.3,4,33 and 34.
	March 11,1915.
	March 18,1915.
	At this temp.sec.cor. at 9h. 9m. a.m., l.m.t., I set off
,	1°10½'S.on the decl.arc; 34°59'on the lat.arc, and de-
	termine a meridian with the solar,
	It being impracticable to continue on random Tp.line E.of
	this cor., I offset as follows:
	North, 22.12 chs., thence
	East, 30.00 chs., thence
	South, 22.12 chs. returning to random Tp.line at
270.50	Thence continue measurement
	East, on random line, setting temp. sec.and sec.cors.at
	intervals of 40.00 chs., until at
480.88	Fall 140 lks.N.of the old cor.of Ts.18 and 19 N., Rs.19
	and 20 W., described in Book "B." This falling gives
	a true return course of N.89° 50'W.
	Thence I run,
	N.89°50'W., on a true line, bet. secs.1 and 36.
	Descend over rolling land.
8.38	Wash, course SW., 220 ft. below Tp.cor.; ascend.
40.00	98 ft. above wash. Set an iron post, 3 ft.long, 1 in. in
	diam., 12 ins. in the ground, to bed rock, in a mound
	of stone, for \(\frac{1}{4} \) sec.cor., with a brass cap, marked
	₹ s 36
	s 1 1915
	and raise a mound of stone 2 ft.base, $l^{\frac{1}{2}}$ ft. high, N.
	of cor.
50.40	Enter level mesa land, bears N. and S., 42 ft. above 2

sec.cor.

North boundary of Township 18 North, Range 20 West. Chains.

80.00

Set an iron post, 3 ft.long, 3 ins.in diam., 8 ins.in the ground to bedrock, in a mound of stone, for cor.of secs. 1,2,35 and 36, with a brass cap, marked,

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

Land, rolling and mountainous.

Soil, stony, 4th rate.

No timber.

Undergrowth, cactus, sagebrush and greasewood.

N. 89° 50' W. on a true line, bet. secs. 2 and 35. Over rough, mountainous land.

10.60 Leave mesa, bears N.and S.; descend.

40.00 790 ft. below mesa. Set an iron post, 3 ft.long, 1 in. in diam., 12 ins. in the ground to bedrock, in a mound of stone for \$\frac{1}{4}\$ sec.cor., with a brass cap, marked

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

Continue to descend.

45.40 Foot of descent, 25 ft.below \(\frac{1}{4}\) sec.cor.

Thence over rolling land.

Set an iron post 3 ft.long, 3 ins. in diam., 12 ins. in the ground to bedrock, in a mound of stone, for cor. of secs. 2,3,34 and 35, with a brass cap, marked

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

Chains

W.of cor.

Land, rolling and mountainous.

Soil, stony, 4th rate.

No timber.

Undergrowth, cactus and greasewood.

N.89° 50!W. on a true line, bet. secs. 3 and 34.

Ascend over rough mountainous land.

Top of 70 ft. ascent; descend. 4.65

Foot of 175 ft. descent; ascend. 12.35

Top of 418 ft. ascent; descend. 24.60

Foot of 254 ft. descent, set an iron post, 3 ft. long, lih 40.00 in diam., on surface rock, in a mound of stone, for 4 sec.cor., with a brass cap, marked

1 S 34

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

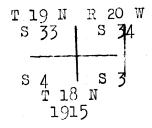
Draw, course N., 260 ft. below 4 sec.cor.; ascend. 45.55

85 ft. above draw. Impracticable to continue N.89°50'W. 50.00 on Tp. line from this point, owing to cliffs; therefore,

I offset as follows:

North, 22.12 chs. Descend 85 ft. theree N.89°50'W.30.00 chs. Ascend 35 ft. South, 22.12 chs. Ascend 100 ft. returning to Tp.line at

80.00 Set an iron post, 3 ft.long, 3 ins. in diam., 8 ins. in the ground to bedrock, in a mound of stone, for cor. of secs. 3,4,33 and 34, with a brass cap, marked



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

FOOK 2876

Chains. of cor. Land, rough and mountainous. Soil, stony, 4th rate. No timber. Undergrowth, cactus, sage brush and greasewood. Impracticable to run on Tp. line west, bet. secs.4 and 33; therefore, offset from cor.of secs. 3,4,33 and 34, as follows: North, 17.15 chs. Descend 65 ft. thence N.89°50'W.35.00 chs. Ascending 175 ft. to 10.00 chs. Top of ascent. Descend 136 ft.to 35.00 chs. Foot of descent; thence South 17.15 chs. Ascend 514 ft., returning to Tp.line at Thence N.89°50'W.bet.secs.4 and 33, continuing measurement. 35.00 Descend. 40.00 Point for # sec.cor. on steep rocky slope, impracticable to set post here; therefore at 40.30 132 ft.below 35.00 ch. point. Set an iron post, 3 ft.long, 1 in. in diam., 4 ins. in the ground to bedrock, in a mound of stone for witness cor. to 2 sec.cor., with a brass cap, marked and raise a mound of stone, 2 ft.base, la ft. high, N.of cor.; descend. 130 ft. below witness cor. to { sec.cor. Impracticable 45.21 to chain measurement on Tp. line N.89°50'W. from this point; therefore, offset as follows: South, 5.43 chs. Descend 124 ft. thence N.89°50'W. 34.79 chs. Descend 550 ft. thence North, 5.43 chs. Ascend, returning to Tp.

80.00

56

20 North bdy. of Township 18 North Range Chains line at Set an iron post, 3 ft. long, 3 ins.in diam., 10 ins. in 80.00 the ground to bedrock, in a mound of stone, for cor. of secs.4,5, 32 and 33, with a brass cap, marked, T 19 N R 20 W . S 32 | S 33 and raise a mound of stone, 2 ft. base, l_{2}^{1} ft. high, W. of cor. Land, exceptionally rough and mountainous. Soil, stony, 4th rate. No timber. Undergrowth, scattering cactus and greasewood. N.89°50'W., on a true line, bet. secs. 5 and 32. Descend over rough, mountainous land. Wash, course S., 340 ft. below sec.cor.; thence over roll-24.40 ing land. Wagon road between Oatman and Topock, brs. N. and S. 31.30 Set an iron post, 3 ft.long, 1 in. in diam., 4 ins. in 40.00 the ground to bedrock, in a mound of stone, for \frac{1}{4} sec. cor., with a brass cap, marked ₹ S 32 and raise a mound of stone 2 ft. base, l_{2}^{1} ft. high, N.of cor. Descend. Wash, course SW., 105 ft. below 2 sec.cor.; descend. 50.45 Wagon road bet. Oatman and Needles, bears N.and S. 59.70 68 ft. below wash, set an iron post, 3 ft. long, 3 ins.

in diam., 8 ins. in the ground to bedrock, in a mound

of stone for cor. of secs. 5, 6, 31 and 32, with a

brass cap, marked

North boundary of Township 18 North, Range 20 West.

Chains.

T 19 N R 20 W
S 31 | S 32

s 6 | s T 18 N 1915

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

Land, rough and rolling.

Soil, stony, 4th rate.

No timber.

Undergrowth, cactus, sagebrush and greasewood.

 $N.89^{\circ}$ 50' W., on a true line, bet. secs.6 and 31. Over rolling land.

40.00

Set an iron post, 3 ft. long, 1 in. in diam., 8 ins. in the ground to bedrock, in a mound of stone, for \$\frac{1}{4}\$ sec.cor., with a brass cap, marked

s 6 1915

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

60.40

Wash, course SW.

80.88

Cor. of Tps. 18 and 19 N., Rs. 20 and 21 W., reestablished by me, as described in Book "B."

Land, rolling.

Soil, sandy and stony, 3rd rate.

No timber,

Undergrowth, cactus and greasewood.

March 18, 1915.

Guy H. Richardson.

U. S. Surveyor.

.... 20 V

Chains Survey commenced March 29, 1915; and executed by Guy
H. Richardson, U. S. Surveyor, with a
Young & Sons light mountain transit, No. 8484. The

instrument is provided with a Smith solar attachment.

For test of instrument, see notes of subdivision of T. 18 N., R. 20 W. in Book "F."

I commence at the cor. of Tps. 18 and 19 N., Rs. 20 and 21 N., reestablished by me, as described in Book "B. at 9h. 0m., a. m., 1. m. t., I set off 3° 9½ N. on the decl. arc, 34° 59' N. on the lat. arc, and determine a meridian with the solar:

Thence I run

North bet. secs. 31 and 36.

Over rolling land.

11.80 Wash, course SW.

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

and raise a mound of stone, 2 ft. base, 1 ft. high, W. of cor.

80.00 Set an iron post, 3 ft. long, 3 ins. in diam., 24 ins. in the ground for cor. of secs. 25, 30, 31 and 36, with a brass cap, marked

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

Land rolling.

Soil, stony, 4th. rate.

No timber.

Undergrowth, cactus, sagebrush and greasewood.

North bet. secs. 25 and 30.

Over rolling land.

-00)	West bdy. of T. 19 N., R. 20 W.
	Chains	
	1.25	Wagon road, bears N. 80° E. and S. 80° W.
	7.00	Wash, 100 lks. wide, course SW.
	25.00	Wash, course SW.
	40.00	Set an iron post, 3 ft. long, 1 in. in diam., 12 ins. in
		the ground to bedrock, in a mound of stone, for 1/4
		sec. cor., with a brass cap, marked
	-	1/4 S 25 S 30
	-	1915
		and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high,
		W. of cor.
	80.00	Set an iron post, 3 ft. long, 3 ins. in diam., 12 ins.
		in the ground, to bedrock, in a mound of stone, for
		cor. of secs. 19, 24, 25 and 30, with a brass cap,
		marked
	,	T 19 N R 21 W R 20 W
		S 24 S 19
	-	S 25 S 30 1915
		and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high,
		W. of cor.
		Land, rolling.
		Soil, stony, 4th. rate.
		No timber.
		Undergrowth, cactus and greasewood.
		North bet. secs. 19 and 24.
		Over rolling land.
	16.66	
	40.00	
		the ground to bedrock, in a mound of stone, for 1/4
		sec. cor., with a brass cap, marked
		1/4 S 24 S 19
		1915

and raise a mound of stone, 2 ft. base, $1\frac{1}{12}$ ft. high,

W. of cor., asc.

	West bdy. of T. 19 N., R. 20 W.
Chains	
45.00	Top of 100 ft. ascent, desc.
49.50	Foot of 90 ft. descent, asc.
80.00	150 ft. ascent, set an iron post, 3 ft. long, 3 ins. in
	dia., 14 ins. in the ground to bedrock, in a mound of
	stone, for cor. of secs. 13, 18, 19 and 24, with a
	brass cap, marked
	T 19 N R 21 W R 20 W S 13 S 18
	S 24 S 19
	and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high,
	W. of cor.
- ,	At the cor. of secs. 13, 18, 19 and 24, at apparent noon,
	I set off 3° 12' N. on the decl. arc, and observe the
-	sun on the meridian, at noon, for lat. The resulting
	lat. is 35° 1½' N.
	North bet. secs. 13 and 18.
-	Asc. over rough mountainous land.
19.80	Top of spur, slopes SW., 380 ft. above sec. cor., desc.
40,.00	340 ft. below top of spur, set an iron post, 3 ft. long,
	l in. in diam., on surface rock, in a mound of stone,
	for 1/4 sec. cor., with a brass cap, marked
-	1/4 S 13 S 18
	1915
	and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high,
	W. of cor.
40.05	Small gully, course W., desc.
44.60	Bottom of canyon, course W., 40 ft. below 1/4 sec. cor.,

Bottom of canyon, course W., 40 ft. below 1/4 sec. cor., asc.

80.00

700 ft. above canyon, set an iron post, 3 ft. long, 3 ins. in diam., 7 ins. in the ground to bedrock, in a mound of stone, for cor. of secs. 7, 12, 13 and 18, with a brass cap, marked

Chains

T 19 N R 21 WR 20 W S 12 | S 7 S 13 | S 18 1915

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

Land rough mountainous.

Soil, stony, 4th. rate.

No timber.

Undergrowth, cactus and greasewood.

North bet. secs. 7 and 12.

Asc. over rough mountainous land.

13.00 Top of rough spur, slopes W., 320 ft. above sec. cor., desc.

1 in. in diam., 6 ins. in the ground to bedrock, in a mound of stone, for 1/4 sec. cor., with a brass cap,

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

50.00 30 ft. below 1/4 sec. cor. Bottom of draw, course W., asc. 80.00 240 ft. above draw, set an iron post, 3 ft. long, 3 ins. in diam., 14 ins. in the ground to bedrock, in a mound of stone, for cor. of secs. 1, 6, 7 and 12, 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.

No timber.

Undergrowth, cactus and greasewood,

West bdy. of T. 19 N., R. 20 W.

Chains North bet. secs. 1 and 6.

Asc. over rough mountainous land.

19.70 Top of spur, slopes NW., 240 ft. above sec. cor., desc.

40.00 85 ft. below top of spur, 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 1 | S 6

1915

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

W. of cor.

50.00 Foot of 120 ft. descent, asc.

51.85 Top of rock spur, 30 ft. ascent, desc.

80.00 200 ft. below top of rock spur, set an iron post, 3 ft.

long, 3 ins. in diam., 8 ins. in the ground to bedrock,

in a mound of stone for cor. of Tps. 19 and 20 N., Rs.

20 and 21 W., with a brass cap, marked.

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

Land rough mountainous,

Soil, stomy, 4th. rate.

No timber.

Undergrowth, cactus and greasewood.

March 29, 1915.

Guy H.Richardson,

U. S. Surveyor.

North bdy. of T. 19 N., R. 20 W.

Chains

Survey commenced Apr. 26, 1915, and executed by Hugo Price, U. S. Transitman, with a Young and Sons light mountain transit No. 8477, with Smith solar attachment. For test of instrument, see notes of subdivision of T. 18 N., R. 20 W.in Book "F."

At the cor. of Tps. 19 and 20 N., Rs. 20 and 21 W., which is an iron post, hereinbefore described, and at 10h., 0m., a. m., 1. m. t., set off 13° 21' N. on the decl. arc, 35° 4' on the lat. arc, and determine a meridian with the solar,

Thence I run

East on a random line on the N. bdy. of the township, setting temp. cors. at intervals of 40.00 chs., and at Set temp. cor. for secs. 3, 4, 33 and 34.

Apr. 26, 1915.

Apr. 27, 1915; I se lesse At the temp. cor. of secs. 3, 4, 33 and 34, and at 9h., 0m., a. m., 1.m.t., set off 13° $39\frac{1}{2}$ 'N. on the decl. arc, 35° 4' on the lat. arc, and determine a meridian with the solar.

Thence continue measurement,

East on a random line on the N. bdy. of the township. setting temporary corners, at intervals of 40.00 chs until at ...

479.75

Intersect a point 110 lks. N. of the cor. of Tps. 19 and 20 N., Rs. 19 and 20 W., which is a malpais stone, 10 X 10 X 6 ins. above ground, marked and witnessed as described by the surveyor general.

The falling of 110 lks. N. in 6 miles of line gives a return true course of N. 89° 52' W., thence I run N. 89° 52' W. on a true line bet. secs. 1 and 36. Over gently rolling land.

38.20 Top of low spur, slopes S., 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 36 Chains 1915 and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor. 42.15 Foot of 215 ft. desc., asc. 48.20 Top of cliffs, bear N. and S., 120 ft. ascent, desc. 65.20 Gulch, course SW., 388 ft. below top of cliffs, asc. 68.90 Top of round butte, 135 ft. above gulch, desc. 80.00 350 ft. below top of butte, set an iron post, 3 ft. long, 3 ins. in diam., 6 ins. in the ground to solid rock, in a mound of stone, for cor. of secs. 1, 2, 35 and 36, with a brass cap, marked T 20 N R 20 W S 35 S 36 | S 1 T 19 N 1915 and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Land, rolling and rough mountainous. Soil, stony, 4th. rate. Undergrowth, cacti and greasewood. N. 89° 52' W. on a true line bet. secs. 2 and 35. Desc. over rough mountainous land. 20.35 Canyon, course S., 300 ft. below sec. cor., asc. 35.00 Top of spur, slopes S., 155 ft. above canyon, desc. 40.00 34 ft. below top of spur, set an iron post, 3 ft. long, 1 in. in diam., 6 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 35 1915

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

Top of ridge, bears N. and S., 790 ft. above 1/4 sec. cor., 59.60 desc.

North bdy. of T. 19 N., R. 20 W.

Chains

/ 80.00

40.00

700 ft. below top of ridge, set an iron post, 3 ft. long, 3 ins. in diam., 12 ins. in the ground, to solid rock, in a mound of stone, for cor. of secs. 2, 3, 34 and 35, 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, cacti and greasewood.

N. 89° 52' W. on a true line bet. secs. 3 and 34. Over rough mountainous land, desc.

1.00 Top of cliffs, bear N. and S., desc. abruptly, 300 ft.

500 ft. below sec. cor., 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

S 3

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

45.36 Gulch, course N., 115 ft. below 1/4 sec. cor., asc.

52.45 Power line, bears N. and S.

67.75 Top of spur, slopes N., 140 ft. above gulch, desc.

80.00 95 ft. below top of spur, set an iron post, 3 ft. long,
3 ins. in diam., 20 ins. in the ground to solid rock,
in a mound of stone, for cor. of secs. 3, 4, 33 and
34, with a brass cap, marked

North bdy. of T. 19 N., R. 20 W. Chains and raise a mound of stone, 2 ft. base, $1\frac{1}{6}$ ft. high. W. of cor. Land, rough and mountainous. Soil, stony, 4th. rate. Undergrowth, cacti and greasewood. N. 89° 52' W. on a true line bet. secs. 4 and 33. Over rolling land. 6.12 Gulch, course N., asc. 35.80 Top of ridge, bears NW. and SE., 400 ft. above gulch, desc. 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 1/4

1/4 S 33

sec. cor., with a brass cap, marked

S 4

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

46.08 Gulch, course S., 110 ft. below top of ridge, asc.

51.00 Top of spur, slopes S., 74 ft. above gulch, desc.

80.00 377 ft. below top of spur, set an iron post, 3 ft. long,

3 ins. in diam., 24 ins. in the ground for cor. of secs.

4, 5, 32 and 33, with a brass cap, marked

and raise a mound of stone, 2 ft. base, $1\frac{1}{3}$ ft. high, W. of cor.

Land, rolling.

Soil, stony, 4th. rate.

Undergrowth, greasewood and cacti.

N. 89° 52' W. on a true line bet. secs. 5 and 32. Over rolling land.

0.78 Road, Oatman to Ruth mine, bears NW. and SE.

5.68 | Silver creek wash, course NW., asc.

20.20

	North bdy.	of	T.	19	Ν.,	R.	20	W.
--	------------	----	----	----	-----	----	----	----

· ·	North bdy. of T. 19 N., R. 20 W.
Chains	
7.95	Telephone line, bears NW. and SE.
19.22	Top of spur, slopes N., 230 ft. above wash, desc.
24.23	Mine shaft, 30 lks. N. of line.
27.55	Gulch, course N., 107 ft. below top of spur, asc.
40.00	Set an iron post, 3 ft. long, 1 in. in diam., 20 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 32
	S 5 1915
	and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high,
	N. of cor.
55.25	Top of spur, slopes N., 100 ft. above gulch, desc.
70.10	Gulch, course N., 123 ft. below top of spur, asc.
75.00	Top of spur, slopes N., 57 ft. above gulch, desc.
78.00	Gulch, course N., 57 ft. below top of spur, asc.
80.00	80 ft. above gulch, set an iron post, 3 ft. long, 3 ins.
	in diam., on surface rock, in a mound of stone, for
•	cor. of secs. 5, 6, 31 and 32, with a brass cap, marked
,	T 20 N R 20 W S 31 S 32
	S 6 S 5 T 19 N
	1915
	and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high,
	W. of cor.
	Land, rolling.
	Soil, stony, 4th. rate.
	Undergrowth, greasewood and cacti.
	N. 89° 52° W. on a true line bet. secs. 6 and 31.
	Desc. over rolling land.
10.60	Gulch, course N., 28 ft. below sec. cor., asc.
1	1

35.05 Gulch, course N., 177 ft. below spur, asc. 25 ft. above gulch, set an iron post, 3 ft. long, 1 in. 40.00 in diam., on surface rock, in a mound of stone, for 1/4

Top of spur, slopes N., 170 ft. above gulch, desc.

Chains

sec. cor., with a brass cap, marked

1/4 S 31

S 6 1915

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

45.62 Gulch, course N., 70 ft. below 1/4 sec. cor.

70.50 Swale, bears N. and S., asc.

77.80 Top of spur, slopes N., 118 ft. above swale, desc.

79.75 Cor. of Tps. 19 and 20 N., Rs. 20 and 21 W., hereinbefore described, 66 ft. below spur.

Land, rolling.

Soil, stony, 4th. rate.

Undergrowth, greasewood and cacti.

April 27, 1915.

Hugo Price.

U. S. Transitman.

North bdy. of T. 19 N., R. 21 W.

Chains

Survey commenced Mar. 30, 1915 and executed jointly by Guy H. Richardson and Otis Ross, U. S. Surveyors, with Young & Sons light mountain transits, Nos. 8484 and 8477 respectively. The instruments are provided with Smith solar attachments, and were approved by the Assistant Supervisor of Surveys for Arizona and California on Jan. 31, 1915.

For field test of instruments on Polaris meridian, see notes of the subdivision of T. 18 N., R. 20 W, in Book"F."

Line run by Guy H. Richardson, U. S. Surveyor, as follows:

At the cor. of Tps. 19 and 20 N., Rs. 20 and 21 W., which is a 3 inch. iron post, hereinbeforedescribed, at 9h. 0m., a. m., 1.m.t., set off 3° 33' N. on the decl. arc, 35° 4' N. on the lat. arc, and determine a meridian with the solar. Thence I run, West on a random line on the N. bdy. of the twp., setting temp. cors. at intervals of 40.00 chs., and at

320.00

Set temp. cor. for secs. 4, 5, 32 and 33.

Guy H.Richardson,
U. S. Surveyor.

March 30, 1915

April 3, 1915; Line: run by Otis Ross, U. S. Surveyor, as follows;

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

at 8h., Om., a. m., l.m.t., set of \$5°4\frac{1}{2}' N. on the decl. arc, 35°4' N. on the lat. arc, and determine a meridian with the solar, Thence I run,

West on a random line on the N. bdy. of the twp., continuing measurement, and setting temp. cors. at intervals of 40.00 chs., until at

479.82

Intersect a point 2.38 chs. S. of old cor. of Tps. 19 and 20 N., Rs. 21 and 22 W., which is a granite stone, 18 X 18 X 16 ins. above ground, marked and witnessed as described by the surveyor general.

The falling of 238 lks. S. in the six miles of line, gives a return true course of S. 89° 43' E. Thence I run

North bdy. of T. 19 N., R. 21 W. S. 89° 43' E. on a true line bet. secs. 6 and 31. Chains Over level land. 39.82 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 311915 and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor. Wash, course SW. 59.82 Set an iron post, 3 ft. long, 3 ins. in diam., 24 ins. in 79.82 the ground for cor. of secs. 5, 6, 31 and 32, with a brass cap, marked T 20 N R 21 W S 31 S 32 1915 and raise a mound of stone, 2 ft. base, $1\frac{1}{10}$ ft. high, W. of cor. Land level. Soil, stony, 4th. rate. Undergrowth, cactus and greasewood.

> S. 89^{o} 43' E. on a true line bet. secs. 5 and 32. Over rolling land.

20.08 Gulch, course SW.

35.00 Wash, course SW.

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

1915

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

78.72 Gulch, course SW.

Set an iron post, 3 ft. long, 3 ins. in diam., 24 ins. in

North bdy. of T. 19 N., R. 21 W.

Chains

the ground for cor. of secs. 4, 5, 32 and 33, with a brass cap, marked

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

Land, rolling.

Soil, stony, 4th. rate.

Undergrowth, cactus and greasewood.
Otis Ross.
U. S. Surveyor.

Line run by Guy H. Richardson, U.S. Surveyor, as follows: S. 89° 43' E. on a true line bet. secs. 4 and 33.

Over rolling land.

24.00 Wash, course S. 80° W.

39.70 Wash, course S. 30° W.

40.00 Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for 1/4 sec. cor., with a brass cap, marked

S 4 1915

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

Asc. from 1/4 sec. cor.

55.00 125 ft. above 1/4 sec. cor., thence over level land.

80.00 Set an iron post, 3 ft. long, 3 ins. in diam., 24 ins. in the ground for cor. of secs. 3, 4, 33 and 34, 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, sandy and stony, 3rd. rate.

Undergrowth, cactus and greasewood.

North bdy. of T. 19 N., R. 21 S. $89^{\circ} / 43^{\circ}$ E. on a true line bet. secs. 3 and 34. Chains Over rolling land, asc. Wash, course S. 60° W., 55 ft. above sec. cor., asc. 8.00 40.00 80 ft. above wash, set an iron post, 3 ft. long, 1 in. in diam., 24 ins. in the ground for 1/4 sec. cor., with a brass cap, marked 1/4 S 34 1915 and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor., desc. Wash, course SW., 45 ft. below 1/4 sec. cor. 67.00 80.00 Set an iron post, 3 ft. long, 3 ins. in diam., 24 ins. in the ground for cor. of secs. 2, 3, 34 and 35, with a brass cap, marked T 20 N R 21 W S 34 S 35 3 | S 2 T-19 N : 1915 and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Land, rolling. Soil, stony, 4th. rate. Undergrowth, cactus and greasewood. S. 89° 43' E. on a true line bet. secs. 2 and 35. Over rolling land, desc.

20.10 Wash, course SW., 47 ft. below sec. cor., asc.

40.00 80 ft. above wash, 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

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

 $\Im A$

North bdy. of T. 19 N., R. 21 W.

Chains | Continue to asc.

73.80 Top of spur, slopes NE., 255 ft. above 1/4 sec. cor., desc.

3 ins. in diam., 24 ins. in the ground for cor. of secs. 1, 2, 35 and 36, with a brass cap, marked

1915

and raise a mound of stone, 2 ft. base, l_{Ξ}^{1} ft. high, W. of cor.

Land rolling.

Soil, stony, 4th. rate.

Undergrowth, cactus and greasewood.

S. 89° 43' E. on a true line bet. secs. 1 and 36. Over rolling land.

20.65 Draw, course NW., asc.

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 36

S 1 1915

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

42.90 Top of ridge, bears N. and S., 270 ft. above draw, desc.

76.75 Draw, course N., 325 ft. below top of ridge, asc.

80.00 Cor. of Tps. 19 and 20 N., Rs. 20 and 21 W.hereinbefore described, 95 ft. above draw.

Land rolling.

Soil, stony, 4th. rate.

Undergrowth, cactus and greasewood.

April 3, 1915.

Guy H. Richardson, U. S. Surveyor. boundary of Township 20 North Range 20 West

Chains.

Survey commenced May 17, 1915, and executed by Guy H. Richardson, U.S.Surveyor, with a Young and Sons' light mountain transit, No.8484, provided with a Smith solar attachment. The instrument was examined and approved by the Assistant Supervisor of Surveys for Arizona and California on Jan. 31, 1915.

notes of the subdivision of T.18 N., R.20 W., in Book "F." At old cor. of Ts. 19 and 20 N., Rs. 19 and 20 W., which is a malpais stone, 10x10x6 ins. above ground, marked and witnessed as described by the Surveyor General, at 2h. Om., p.m., l.m.t., I set off $19^{\circ}14\frac{1}{2}$ 'N.on the decl. arc; 35°4' on the lat.arc, and determine a meridian with the solar.

For field test of the instrument on Polaris meridian, see

It being impracticable to chain measurement on Tp.line N. of this cor., owing to cliffs and canyon, I triangulate as follows:

FLIGORINT 6930 Set a flag on Tp. line, north of Tp. cor.

From Tp.cor.lay off a base N.67°57'W.,20.00 chs.

From NW. end of base, flag brs. N. 16°42'E.

Included angles are 67°57', 95°21' and 16°42', the sum of which is 180°00'.

Therefore dist.on Tp.line from Tp.cor.to flag is obtained by

.99564 x 20.00=69.30chs. Sine95°21' x base sine 16°42' or

20.00 (Approximate) Cottonwood Canyon, course W.800 ft.deep.

> Flag point. Point for 4 sec.cor. is inaccessible. I locate the nearest suitable point for witness cor. to 1/2 sec. cor.by triangulation, as follows:

Set flag on Tp. line S.of 69.30 ch.station. From triangulation point at 69.30 chs.I lay off a base west, 4.70 chs.

From west end of base, flag brs.S.11°28'E. Included angles are 90°00', 78°32' and 11°28', the sum of which is 180°00'.

BASE

69.30

FLAG POINT

*; * **********************************	East bay, of Township 20 North, Range 20 West,
Chains.	
	Therefore distion Tpiline from triangulation point S.
	to flag is obtained by
	Tang.78°32' x base or 4.92984 x 4.70 = 23.17 chs.
	69.30 chs 23.17 chs. = dist. of flag N.of Tp.cor.
46.13	Flag point on top of ridge, bearing E.and W. At this
	point, I set an iron post, 3 ft.long, 1 in. in diam.,
,	18 ins. in the ground, to solid rock in a mound of
	stone, for witness cor. to \frac{1}{4} sec. cor., with a brass cap,
	marked
	s 36 s 31
	1915
	and raise a mound of stone, 2 ft.base, 1 ft. high, W.
	of cor. Thence by triangulation measurement hereinbe-
	fore described, North, descending.
66.00	(Approximate) Ravihe, course west. Ascend.
69.30	Flag point on SW. slope of ridge. Continue measurement
	by chaining, ascending.
76.29	Top of rocky ridge, bears N.70°W. and S.70° E., 110 ft.
	above flag point; descend.
80.00	28 ft. below top of ridge, set a granite stone, 16x14x9
,	ins. on surface rock, in a mound of stone, for cor. of
	secs. 25.30, 31 and 36, marked with 1 notch on S. and
	5 notches on N.edge, and raise a mound of stone, 2 ft.
	base, la ft. high, W. of cor.
	Land, exceptionally rough and mountainous.
	Soil, rocky, 4th rate.
	Undergrowth, greasewood and cactus.
	No timber, some scattering small junipers.
	May 17, 1915.
,	

May 19,1915: At the cor.of secs. 25,30,31 and 36,here-inbefore described, at 10h.0m.,a.m., 1.m.t., set off

East boundary of Township 20 North. Range 20 West.

Chains.

19° 39' N.on the decl.arc; 35°5' on the lat.arc; and determine a meridian with the solar.

It being impracticable to chain measurement on Tp. line North, bet. secs.25 and 30, owing to cliffs, I establish a triangulation point on Tp.line, 3.83 chs.s. of the cor.of secs. 25,30,31 and 36, and triangulate as follows:

Set a flag on Tp.line, N.of sec.cor.

From triangulation point lay off a base, N.81°15'W., 5.58 chs.

From west end of base flag brs.N.15°10'E.

Included angles are 81°15', 83°35' and 15°10', the sum of which is 180°00'

Therefore dist.on Tp.line from triangulation point to flag is obtained by

sine 83° 35' x base or .99374 x 5.58 = 21.20 chs.

Dist. from sec.cor. to flag is 21.20 chs. - 3.83 chs. =

17.37 Flag point on top of ridge, brs. E. and W. Continue measurement by chaining. Descend over rough, mountainous land.

40.00 96 ft. below top of ridge, set an iron post, 3 ft. long,
l in. in diam., on surface rock, in a mound of stone,
for 4 sec.cor., with a brass cap, marked

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

45.00 Begin to ascend.

55.00 Fop of ridge, brs. SW. and NE., 240 ft. above a sec.cor.

Descend.

30.00 ft. below top of ridge, set a granite stone, 18x16x12 ins., 12 ins. in the ground, for cor. of secs. 19,24, 25 and 30, marked with 2 notches, on S.edge and 4

FLAG POINT 17.37

1.8 5.58 N.81 15 W. BASE 4.2

Chains

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

Land, rough, mountainous.

Soil, stony, 4th rate.

Undergrowth, greasewood and cactus.

North. bet. secs. 19 and 24.

It being impracticable to chain measurement on Tp. line N. from cor. of secs. 19,24, 25 and 30, I triangulate as follows:

FLAG POINT \$55.89

SEC.COR.

Set flag on Tp. line N.of sec.cor.

Establish triangulation point, 12.30 chs.S.of seccor.

40.00 From triangulation point, lay off a base, N.49°22' W., 22.99 chs.

From NW. end of base, flag brs. N. 18° 9'E.

Included angles are 49° 22', 112°29' and 18°9', the sum of which is 180° 00'

Therefore, dist. on Tp.line from triangulation point to flag is obtained by

sine 112° 29' x base or .92399 x 22.99=68.19chs.
sine 18° 9' .31151

68.19 chs. - 12.30 chs. = dist.from sec.cor.to flag=

Flag point from which I run, chaining measurement 55.89 South, bet. secs. 19 and 24, 15.89 chs.to

> Set an iron post, 3 ft. long, 1 in. in diam.,6 ins.in the ground, to solid, rock, in a mound of stone for 4 sec.cor., with a brass cap, marked

, and raise a mound of stone, 2 ft. base, la ft. high, W.of car.

Thence I run, North, continuing measurement by chaining. Flag point

55.89

40.00

East boundary of Township 20 North, Range 20 West. Chains. Descend over mountainous land. 70.55 Cliffs 200 ft. high, bear E. and W.; descend abruptly. 80.00 350 ft. below flag point, set a granite stone, 20x12x8 ins. on solid rock, in a mound of stone for cor. of secs. 13,18,19 and 24, marked with 3 notches on N. and S. edges, 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, greasewood and cactus. May 19, 1915. May 26, 1915: At the cor. of secs. 13, 18, 19 and 24, at 9h.Om. a.m., l.m.t., set off 21°12' N.on the decl.arc; 35° 7' on the lat.arc, and determine a meridian with the solar. Thence I run, North, bet. secs. 13 and 18. Descend over rough, mountainous land. 18.82 Draw, course E., 300 ft. below sec. cor.; ascend. Top of spur, slopes E., 120 ft. above draw. 31.90 Set an iron post 3 ft.long, 1 in. in diam., on surface 40.00 rock, in a mound of stone, for 4 sec.cor., with a brass cap, marked s 13 s 18 and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W.of cor. Descend. 215 ft. below 2 sec.cor.; owing to cliffs, it is imprac-60.00 ticable to continue chaining on Tp.line north of this point; therefore, run on offset line, as follows: West; 5.00 chs., thence North, 20.00 chs.over rolling land; thence

East, 5.00 chs. returning to Tp.line at

Set an iron post, 3 ft.long, 3 ins.in diam., 24 ins. in

East boundary of Township 20 North, Range 20 West

Chains

the ground for cor.of secs. 7,12,13 and 18, with a brass cap, marked

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

Land, rough, mountainous.

Soil, stony, 4th rate.

Undergrowth, greasewood and cactus.

North, bet. secs. 7 and 12.

Descend over rough, mountainous land.

9.05 Draw, course E., 320 ft.below sec.cor.; thence over rolling, broken land.

40.00 Set an iron post, 3 ft.long, 1 in. in diam., 26 ins. in the ground for \(\frac{1}{4} \) sec.cor., with a brass cap, marked

and raise a mound of stone, 2 ft.base, $l_2^{\frac{1}{2}}$ ft. high, W. of cor. Descend into mountain pass, known as "Secret Pass."

59.80 Draw, in bottom of pass, course S.80°E., 155 ft. below \$\frac{1}{4}\$ sec.cor.; ascend.

80.00 70 ft. above draw, set an iron post, 3 ft.long, 3 ins.
in diam., 24 ins. in the ground for cor.of secs.1,6,
7, and 12, 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 and mountainous. Soil, stony, 4th rate.

Undergrowth, greasewood and cactus. May 26,1915.

East boundary of Township 20 North, Range 20 West. 45

Chains.

May 27,1915: At the cor.of secs.1,6,7 and 12; at 8h.Om., a.m., 1.m.t., set off 21°12'N.on the decl.arc;35°8½'on the lat.arc; and determine a meridian with the solar.

Thence I run,

North, bet. secs.1 and 6.

Ascend over rough, mountainous land.

24.97 Top of spur, slopes W., 375 ft. above sec.cor.; descend.

35.65 Draw, course S 80°W.,165 ft. below top of spur; ascend.

40.00 25 ft. above draw, set an iron post, 3 ft.long, 1 in. in diam., 26 ins. in the ground for \(\frac{1}{4} \) sec.cor., with a brass cap, marked

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

Top of ridge, bears NW. and SE., 416 ft. above 1 sec.cor. Descend.

A point 34.34 chs.E. of old std.cor.of Ts.21 N., Rs.19 and

20 W. Set. temp. Tp. closing cor. at this point.

May 27, 1915.

December 16,1915.

73.71 Intersect the 5th.Standard Parallel N.,35.18 chs.N.77°28'

E.of old standard cor.of Ts.21 N.,Rs.19 and 20 W.,

which is a granite stone,24x16x12 ins.,set in a mound

of stone, marked and witnessed as described by the

Surveyor General. (Intersection determined after re
survey of 5th.Standard Parallel North, through part of

Range 19 West, as described in Book "B.")

At point of intersection, 135 ft. below top of ridge, set an iron post, 3 ft.long, 3 ins. in diam., 12 ins.in the ground, for closing cor.of Tps. 20 N., Rs. 19 and 20 W., with a brass cap, marked

and raise a mound of stone, 2 ft.base, l_2^1 ft. high,S.

East boundary of Township 20 North, Range 20 West.

Chains. of cor.

Land, rough and mountainous.

Soil, stony, 4th rate.

Undergrowth, cactus and greasewood.

Dec. 16, 1915.

Guy H. Richardson,

U. S. Surveyor.

FOOK 2876

West boundary of Township 20 North. Range 20 West.

Chains

Survey executed by Guy H. Richardson, U.S. Surveyor, commencing April 15, 1915, at the corner of Ts.19 and 20 N., Rs.20 and 21 W., which is an iron post hereinbefore described, where at 9h. 30m., a.m., l.m.t., set off 9° 33½'N.on the decl.arc; and 35°4'on the lat.arc, and determine a meridian with the solar.

Thence I run,

North, bet. secs.31 and 36.

Descend along W.slope of broken, mountainous land.

15.00 | 125 ft. below Tp. cor.; thence over rolling land.

31.20 | Begin to descend.

40.00 Foot of 150 ft. descent, set an iron post 3 ft.long, lin.
in diam., 26 ins. in the ground for 2 sec.cor., with a
brass cap, marked

and raise a mound of stone 2 ft.base, $l_{\mathbb{R}}^{\frac{1}{2}}$ ft.high, w.of cor. Thence over rolling land.

67.50 Telephone line, brs.E.and W.

69.00 | Silver Creek wash, course N. 85°W.

80.00 Set an iron post, 3 ft.long, 3 ins. in diam., 24 ins. in the ground for cor. of secs/ 25.30, 31 and 36, with a brass cap, marked

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

Land rolling and mountainous.

Soil, stony, 4th rate.

Undergrowth, greasewood and cactus.

North, bet. secs. 25 and 30.

Over rolling hills.

27.70 Wash, 1 ch. wide, course W.

. West boundary of Township 20 North, Range

Chains.
40.00 Set an iron post, 3 ft.long, 1 in.in diam., 26 ins. in
the ground for \(\frac{1}{2}\) sec.co.r., with brass cap, marked

and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Ascend from $\frac{1}{4}$ sec.cor.

80.00 100 ft. above a sec.cor., set an iron post, 3 ft. long, 3 ins. in diam., 24 ins. in the ground for cor.of secs. 19,24,25 and 30, with a brass cap, marked

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

Land, rolling.

Soil, stony, 4th rate.

Undergrowth, greasewood and cactus.

North, bet.secs.19 and 24.

Ascend over rolling land.

40.00 145 ft. above sec.cor., set an iron post 3 ft. long, l in. in diam., 26 ins. in the ground for ½ sec.cor., with a brass cap, marked,

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

43.15 90 ft. above $\frac{1}{4}$ sec.cor.; descend.

80.00 218 ft.descent, set an iron post, 3 ft.long, 3 ins. in diam., 24 ins.in the ground for cor.of secs.13,18,19 and 24, with a brass cap, marked

West bdy. of T. 20 N., R. 20 W.

Chains

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

Land rolling mountainous.

Soil, stony, 4th. rate.

Undergrowth, greasewood and cactus.

At the cor. of secs. 13, 18, 19 and 24, at apparent noon, I set off 9° 36' N. on the decl. arc, and observe the sun on the meridian for lat. The resulting lat. is 35° 7' N.

North bet. secs. 13 and 18.

Over rolling land, desc.

2.90

Wash, course NE.

9.85

Wash, course NW., 80 ft. below sec. cor., continue to desc.

29.30

Wash, course W., 106 ft. below previous wash, thence over rolling land.

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

1915

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

80.00

60 ft. above 1/4 sec. cor., set an iron post, 3 ft. long, 3 ins. in diam., 24 ins. in the ground for cor. of secs. 7, 12, 13 and 18, with a brass cap, marked

and raise a mound of stone, 2 ft. base, $1\frac{1}{6}$ ft. high, W. of cor.

Land, rolling.

Soil, stony, 4th. rate.

Undergrowth, greasewood and cactus.

Chains

North bet. secs. 7 and 12.

Over rolling land.

12.75 Creek, 5 lks. wide, course W.

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

and raise a mound of stone, 2 ft. base, l_2^1 ft. high, W. of cor.

80.00 Set an iron post, 3 ft. long, 3 ins. in diam., 24 ins. in the ground for cor. of secs. 1, 6, 7 and 12, with a brass cap, marked

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

Land, rolling.

Soil, stony, 4th. rate.

Undergrowth, greasewood and cactus.

North bet. secs. 1 and 6.

Over rolling land.

3.80 Wash, course W.

21.50 Wash, course W.

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

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

64.33 Intersect the 5th. Standard Parallel N. 4.80 chs. W. of the Std. 1/4 sec. cor. for sec. 31, T. 21 N., R. 20 W.,

Chains

which is a stone, 20 X 16 X 14 ins., set in a mound of stone, and marked and witnessed as described by the surveyor general. At point of intersection,

Set an iron post, 3 ft. long, 3 ins. in diam., 24 ins. in the ground for closing cor of Tps. 20 N., Rs. 20 and 21 W., with a brass cap, marked

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

Land, rolling.

Soil, stony, 4th. rate.

Undergrowth, greasewood and cacti.

April 15, 1915.

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

Retracement and survey commenced on December 7, 1915, and executed by Hugo Price,

U. S. Transitman, with Young & Sons. light mountain transit, No. 8439.

ment is provided with Smith solar attachment, and was approved by the Assistant Supervisor of Surveys for Arizona and California on Jan. 31, 1915. For field test of instrument on a meridian determined by an observation on Polaris, see notes of the subdivision of T. 20 N., R. 19 W. in Book "N."

old cor. of Tps. 19 and 20 N., Rs. 19 and 20 W.hereinbefore described, at 8h. Om., a. m., 1.m.t., set off 22° 29' S. on the decl. arc, and 35° 4' N. on the lat. arc, and determine a meridian with the solar. Thence I run.

East on a random line, betsecs. 6 and 31.

38.31

Intersect a point 30 lks. S. of old 1/4 sec. cor., which is a malpais stone 6 X 6 X 5 ins. above ground, marked and witnessed as described by the surveyor general. True course and distance of west half between secs.65and 31 is therefore N.89° 33'E.,38.31 chs.

I continue same line and measurement.

78.27

Intersect a point 18 1ks. N. of old cor. of secs. 5, 6, 31 and 32, which is a malpais stone, 14 X 8 X 7 ins. above ground, marked and witnessed as described by the surveyor general.

True course and distance of E.half, bet.secs.6 and 31 is therefore S.89° 19'E., 39.96 chs.

Completion of surveyN.bdy of T. 19 N., R. 19 W.

From the cor. of secs. 5, 6, 31 and 32, hereinbefore described, I run

East on a random line bet. secs. 5 and 32 and secs. 4 and 33, setting temp. 1/4 and sec. cors. at intervals of 40.00 chs., and at

160.36 Intersect a point 89 lks. S. ofold cor. of secs. 3, 4,

BOOK 2876

Completion of survey of. N. bdy. of T. 19 N., R. 19 W.

Chains

33 and 34, which is a malpais stone, 6 X S X 5 ins. above ground, marked and witnessed as described by the surveyor general.

The true return course is S. 89° 41' W. and the proportional measurement for each half mile is 40.09 chs.

S. 89° 41' W. on a true line bet. secs. 4 and 33. Asc. gradually over rolling land.

- 22.33 Dry gulch, course NE., continue to asc.
- 33.80 Pipe line, bears NW. and SE.
- 40.09 218 ft. above sec. ccr., 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 33

S 4 1915

and raise a mound of stone, 2 ft. base, l_2^1 ft. high, N. of cor.

Enter mountainous land, asc.

- 52.00 Top of spur, slopes SE., 354 ft. above 1/4 sec. cor., desc.
- 64.30 Ravine, course SE., 96 ft. below top of spur, asc.
- 76.60 | Perpendicular cliffs, 78 ft. high, bear N. and S.
- 80.18 520 ft. above ravine, set an iron post, 3 ft. long, 3 ins.in diam., on surface rock, in a mound of stone, for cor. of secs. 4, 5, 32 and 33, with a brass cap, marked

and raise a mound of stone, 2 ft. base, l_{E}^{1} ft. high, W. of cor.

Land, rolling& mountainous.

Soil, stony, 4th. rate.

Undergrowth, cacti, greasewood and a scant growth of grass. No timber.

POOK 2876 Completion of survey of N.bdy. of T. 19 N., R. 19 W. S. 89° 41' W. on a true line bet. secs. 5 and 32. Chains Over mountainous land, asc. SE. slope. 21.22 Gulch, course SE., continue to asc. 39.90 Top of ridge, bears N. and S., 600 ft. above sec. cor. Set an iron post, 3 ft. long, 1 in. in diam., 10 ins. in 40.09 the ground to solid rock, in a mound of stone, for 1/4sec. cor., with a brass cap, marked 1/4 S 32 and raise a mound of stone, 2 ft. base, $1\frac{1}{5}$ ft. high, N. of cor. 46.09 Desc. W. slope, bears N. and S. 63.30 Ravine, course SE., 350 ft. below 1/4 sec. cor., asc.

80.18 Old cor. of secs. 5,6, 31 and 32hereinbefore described, 390 ft. above ravine.

Land, mountainous.

Soil, stony, 4th. rate.

Undergrowth, greasewood and cacti.

No grass or timber.

December 7, 1915.

Hugo Price. U. S. Transitman.

FOR CERTIFICATES .. OF UNITED STATES SURVEYOR S and UNITED STATES TRANSITMAN,

See page 4 of this Book.

L,	, U. S. Surveyor, do solemnly swear that, in pursuance
of special instructions received from the U.S. S	Surveyor General for
pearing date of theday of	, 191 , I have well, faithfully, and truly,
n my own proper person, and in strict confor	rmity with said instructions, the Manual of Surveying
nstructions, and the laws of the United States	, surveyed all those parts or portions of
·	
	of the
	f, which are represented in
he foregoing field notes as having been execu	ted by me, and under my direction; and I do further
solemnly swear that all the corners of said surve	ey bave been established and perpetuated in strict accord-
ince with the Manual of Surveying Instructions	and the special written instructions of the U.S. Surveyor
General fornd in	n the specific manner described in the field notes, and that
the foregoing are the original field notes of such	a survey.
	U. S. Surveyor.
Subscribed by said	and sworn to before me
thisday of	
. —	
APF	PROVAL.
Office of	F THE UNITED STATES SURVEYOR GENERAL,
	Phoenix, Arizona, February 26, 1917
The foregoing field notes of the survey of	the North bdrs. of Ts. 17 and 18 N.,
_	21 W., the West bdrs.of Ts.19 and 20
N., R.20 W., the East bdy.of	T.20 N., R.20 W., and Retracement
	rs.of T.17 N., R.18 W., and T.19 N.,
	River Base and Meridian, in the State
of Arizona,	
	and Otis Ross, U.S. Surveyors, and
Hugo Price, U. S. Transitman,	-
inder special instructions dated January	4 and 28,1915, for Group ,43, , having been
-	ons and explanations made, the said field notes, and the
surveys they describe, are hereby approved.	
• • • • • • • • • • • • • • • • • • • •	Frank (S. Frott
	77 C C C 7
	U. S. Surveyor General. for Arizona.

for Arizona.

6--2761