3748

Book "B"

4—679

BOOK 3748

FIELD NOTES

OF THE SURVEY OF THE

Ninth Standard Parallel North, through Range 3 East and

The East boundary and part of the Subdivision lines of ,

3748

Township 37 North, Range 3 East

Of the Gila and Salt River Base and *Meridian,*

In the State of Arizona

EXECUTED BY

William E Hiester, U.S. Surveyor

and

David M Daugherty, U.S. Transitman

3748

In the capacity of U. S. Surveyor s, under Special Instructions dated January 4, *19*24 *issued by the United States Surveyor General to govern surveys included in Group No.* 126 Arizona, *which were approved by the Commissioner of the General Land Office,* March 12, *19*24 *and Assignment Instructions dated* October 26, *19*25

Survey commenced November 19, *19*25

Survey completed February 2, *19*26

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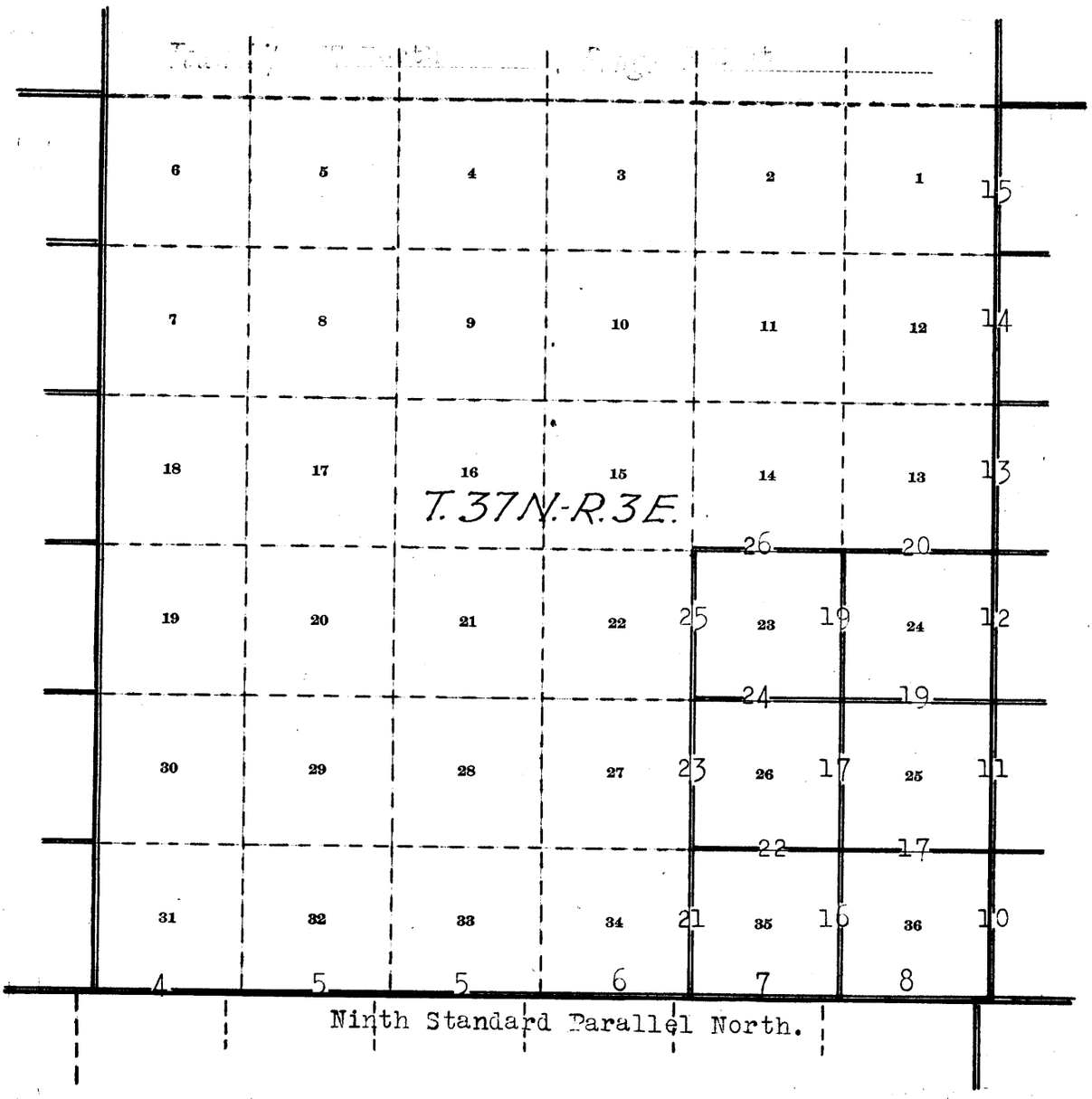
(1A)

Book "B"

Group 126 - Arizona

BOOK 3748

INDEX DIAGRAM.



Surveyed under this group.

Unsurveyed.

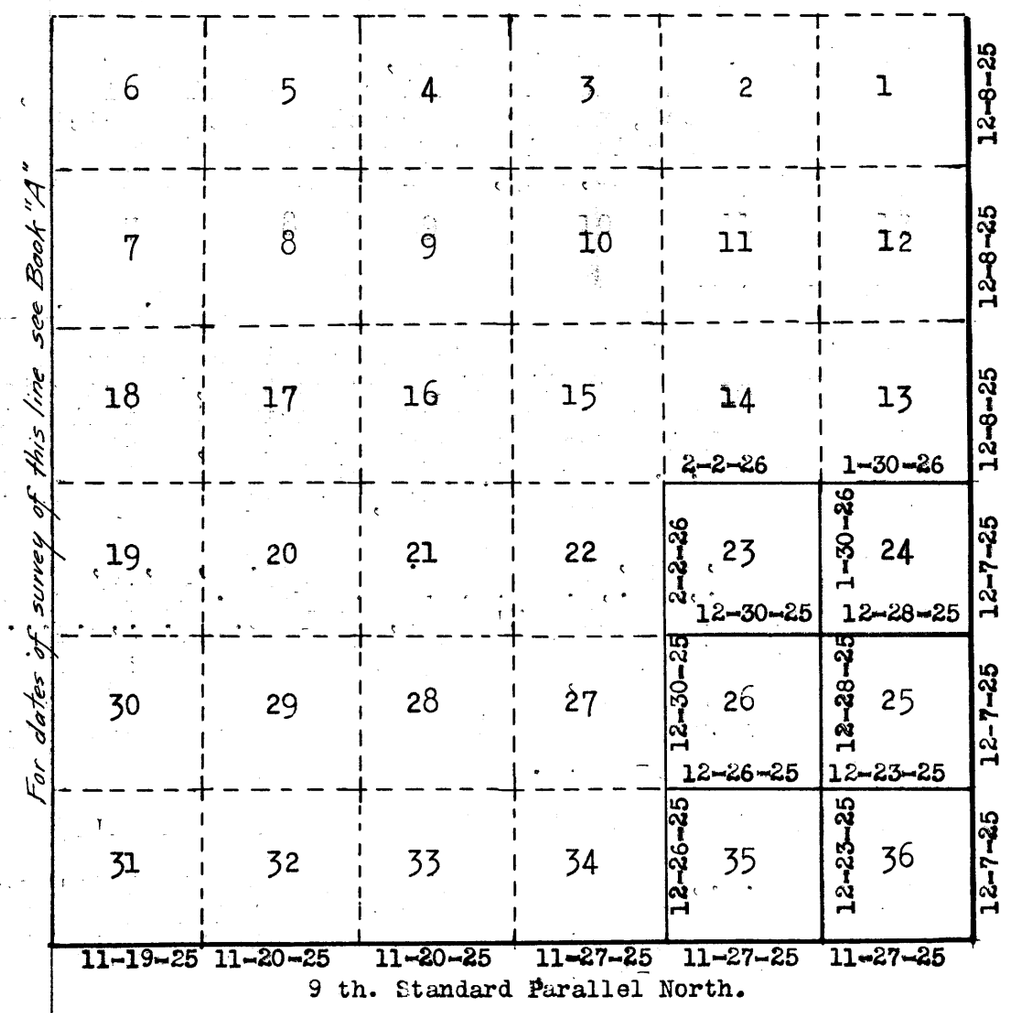
Book "B"

Group 126 Arizona.

Township 37 North., Range 3 East.

DATE DIAGRAM.

1925-26



9 th. Standard Parallel North.

Indicates lines surveyed by William E Hiester, U.S. Surveyor, on dates shown thereon.

Indicates lines surveyed by David M Daugherty, U.S. Transitman, on dates shown thereon.

Surveyed under this group, notes and dates in another book.

Unsurveyed.

The surveys hereinafter described were commenced on November 19,1925,and executed on the dates shown on diagram on page 1 hereof,by William E. Hiester, U.S.Surveyor,using Buff transit No.9977 and David M.Daugherty,U.S.Transitman,using Young and Sons transit No.8534. Both instruments are equipped with full vertical circle and improved Smith solar attachment. The horizontal limb of each instrument is provided with two double verniers, placed opposite to each other,reading to single minutes of arc which is also the least count of the latitude and declination arcs. Unless otherwise specified,all azimuth determinations are accomplished with the solar attachment,except the special observations on Polaris for meridian upon which to test the solar apparatus.

The instruments were examined,tested on the true meridian at the Federal Building at Phoenix Arizona,found correct,and were approved by the District Cadastral Engineer for Arizona and California, October 26,1925,conditional upon satisfactory field tests.

PRELIMINARY FIELD TEST OF BUFF TRANSIT NO.9977.

Examine the adjustments of the transit and correct the level and collimation errors then,in order to test the solar apparatus by comparing its indications, resulting from solar observations,made during a.m. and p.m. hours with a meridian established by observations on Polaris,proceed as follows;

December 23,1925, At the cor. of secs.23,24,25,and 26., T37N.,R3E.,G.& S.R.B.& M.Arizona.;latitude 36°35'N. longitude 112° 3' W.,., at 1h 26.5m a.m.,l.m.t. observe Polaris at western elongation,making four observations,two each with telescope in direct and reversed position,and mark the mean point in the line thus determined on a peg driven firmly in the ground 5-chs.N.

Azimuth of Polaris at western elongation =1°21'23"

At 8h 00m a.m.,lay off the azimuth of Polaris,1°21½' to the east and mark the true meridian thus determined by a tack driven in a stake set firmly in the ground 5-chs.N.

December 23,At 9h 00m a.m.app.time set off 36°35'N.on the lat. arc,23°23½' S. .on the decl. arc and determine a meridian with the solar which falls 1'E.of the meridian established by the Polaris observations.

At apparent noon with the lat.arc unchanged,observe the sun on the meridian and obtain a reading of 23°25' S.on the decl.arc which is about 20"lower than the computed declination of the sun.

At 3h 00m p.m.,app.time with the lat.arc unchanged,set off 23°23½'S.on the decl.arc and determine a meridian with the solar,which falls 1'W.of the true meridian established by the Polaris observations.

Since all the solar observations,during the usual hours of solar work come within 1'30" of the true meridian, conclude that the adjustments of the instrument are satisfactory.

PRELIMINARY FIELD TEST OF YOUNG AND SONS TRANSIT NO.8534

Examine the adjustments of the transit and find them to be corrct, 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 established by observations on Polaris, proceed as follows;

h. m.
December 23, 1925, At 9 00 a.m. app. time, set off 36°35'N. on the lat.arc, 23°23½' S. on the decl.arc, and determine a meridian with the solar, which is found to agree with the meridian established this a.m. by the Polaris observations.

At apparent noon with the lat.arc unchanged, observe the sun on the meridian, the reading on the decl.arc is 23°24½' S. which is a little higher than the computed declination of the sun.

h. m.
At 3 00 p.m., app. time, with the lat.arc unchanged, set off 23° 23½' S. on the decl.arc, and determine a meridian with the solar, which also agrees with the true meridian established by the Polaris observations.

As all the solar observations during the usual hours of solar work come within 1'30" of the true meridian conclude that the adjustments of the instrument are satisfactory.

All measurements are made with Lufkin 5-chain steel tapes compared with a Chesterman standard steel tape and found correct. The measurements are made on the slope, the vertical angles determine with clinometers, and the slope measurements properly reduced to true horizontal distances.

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(4) BOOK 3748

Survey of
Ninth Standard Parallel North, through Range 3 East.

Chains.	
	From the Standard corner of Townships 37 North., Ranges 2 and 3 East, established under this group and described in Book "A",
	East, on S.bdy. of sec. 31.
	Along S. slope over mountainous land, through scattering pine timber.
17.70	Draw; 300 lks. wide, course NE.
	Ascend 44 ft. over NW. slope to
24.70	Descend 62 ft. over SE. slope.
40.00	Set an iron post 3 ft. long, 1 in. in diam., **24 ins. in the ground, for standard ¼ sec. cor. of sec. 31, marked on brass cap**

S C
¼ S 31

from which,

A spruce 8 ins. in diam. bears N11¾°E. 32 lks. dist., marked ¼ S31 SC.BT.
A yellow pine 10 ins. in diam. bears N51°E. 51 lks. dist., marked ¼ S31 SC.BT.

56.00	Small draw, course NE.
	Ascend 41 ft. over NW. slope to
64.40	Descend 28 ft. over SE. slope.
67.50	Draw 10 lks. wide, course NE.
	Ascend 102 ft. over NW. slope to
80.00	Set an iron 3 ft. long, 2 ins. in diam., **10 ins. in ground to bedrock, and raise a mound of stone 4 ft. base, 2½ ft. high around post, for standard cor. of secs. 31 and 32, marked on brass cap**

S C
T37N R3E
S 31 | S 32

from which

A yellow pine 36 ins. in diam. bears N36½°E. 32 lks. dist., marked T37N., R3E., S32 SC.BT.
A yellow pine 14 ins. in diam. bears N28½°W. 42 lks. dist., marked T37N., R3E., S31 SC.BT.

Land, mountainous.
Soil, stony 3 rd. and 4th. rate.
Timber, fir, spruce, and yellow pine.
Undergrowth, none.

	East on S. bdy. of sec. 32
	Ascend 5 ft. over NW. slope over mountainous land, thru. heavy timber.
1.00	Top of spur, slopes NE.
	Descend 31 ft. over SE. slope.
10.88	Draw, course NE.
	Ascend 73 ft. over NW. slope.

Survey of
Ninth Standard Parallel North, through Range 3 East.

Chains	
20.20	Top of spur, slopes N.
	Descend 42 ft. over E. slope
25.49	Draw, course N.
40.00	Set an iron post 3 ft. long, 1 in. in diam., **20 ins. in ground to bedrock, and raise a mound of stone 2 ft. base, 1 ft. high around post, for standard ¼ sec. cor. of sec. 32, marked on brass cap**

S C
¼ S 32

1925

from which

A yellow pine 8 ins. in diam. bears N18¼°E. 91 lks. dist., marked ¼ S32 SCBT.
A yellow pine 8 ins. in diam. bears N6¾°W. 79 lks. dist., marked ¼ S32 SC BT.

44.50	Draw 10 lks. wide 2 ft. deep, course N.
	Ascend 28 ft. over W. slope.
59.50	Top of spur, slopes N.
	Descend 42 ft. over E. slope.
69.60	Draw, course NE.
80.00	Set an iron post 3 ft. long, 2 ins. in diam., **22 ins. in the ground to bedrock, and raise a mound of stone 2 ft. base, 1 ft. high around post, for standard cor. of secs. 32 and 33, marked on brass cap**

S C
T37N | R3E
S 32 | S 33

from which

A yellow pine 14 ins. in diam. bears N38½°E. 119 lks. dist., marked T37N., R3E., S33 SC.BT.
A yellow pine 10 ins. in diam. bears N34°W. 48 lks. dist., marked T37N., R3E., S32 SC.BT.

Land, broken mountainous.
Soil, stony 4 th. rate.
Timber, aspen, fir, and yellow pine.
Undergrowth, oak and bitterbrush.

	East on S. bdy. of sec. 33.
	Descend 34 ft. over SE. slope over stony mountainous land, through heavy pine timber.
3.00	Wash 10 lks. wide, course NE.
	Ascend 31 ft. over NW. slope.
5.50	Draw, course N.
16.00	Descend 421 ft. over E. slope.
32.00	Draw, course NE.
	Ascend 17 ft. over NW. slope.

Survey of
Ninth Standard Parallel North, through Range 3 East.

Chains	
35.60	Top of spur, slopes NE.
	Descend 276 ft. over SE. slope.
40.00	Set an iron post 3 ft. long, 1 in. in diam, 26 ins. in the ground for standard ¼ sec. cor., marked on brass cap
	S C ¼ S 33 1925
	from which
	A yellow pine 12 ins. in diam. bears N54½°E. 31 lks. dist., marked ¼ S33 SC. BT.
	A yellow pine 10 ins. in diam. bears N11½°W. 95 lks. dist., marked ¼ S33 SC. BT.
63.70	Wash 10 lks. wide 3 ft. deep, course N25°E.
	Ascend 40 ft. over NW. slope.
68.22	Wire fence (four wires), bears N. and S.
73.50	Top of ridge, bears E. and S75°W., thence along top of ridge.
80.00	Set an iron post 3 ft. long, 2 ins. in diam. 29 ins. in the ground for standard cor. of secs. 33 and 34, marked on brass cap
	S C T37N | R3E S 33 | S 34 1925
	from which
	A pinion 9 ins. in diam. bears N54¾°E. 65 lks. dist., marked T37N., R3E., S34 SC. BT.
	A pinion 12 ins. in diam. bears N74°W. 89 lks. dist., marked T37N., R3E., S33 SC. BT.
	Land, mountainous. Soil, stony 4 th. rate. Timber, cedar, pinion, and pine. Undergrowth, cedar, pinion, oak, bitterbrush and sage.
	East on S. bdy. of sec. 34.
	Descend 98 ft. along top of ridge over mountainous land, through heavy pine timber.
7.77	Forest Service telephone line bears East and S80°W. thence along same.
17.00	Leave telephone line bears S70°E.
33.95	Wash 4 lks. wide 2 ft. deep, course N40°E.
40.00	Set an iron post 3 ft. long, 1' in. in diam. 16 ins. in the ground to bedrock, supported by a mound of stone 2½ ft. base, 1½ ft. high for standard ¼ sec. cor. marked on brass cap
	S C ¼ S 34 1925
	from which

Survey of
Ninth Standard Parallel North, through Range 3 East.

Chains	
	A pinion 11 ins. in diam. bears N68½°E.49 lks. dist., marked ¼ S34 SC.BT.
	A pinion 10 ins. in diam. bears N37¾°W.62 lks. dist., marked ¼ S34 SC.BT.
43.88	Forest Service telephone line bears N70°E. and S70°W.
44.77	Pack trail bears N70°E. and S70°W.
47.50	Leave top of ridge, bears N60°E. thence along SE. slope
65.00	Top of same ridge bears East and N80°W. thence along top of same
77.00	Leave top of ridge, bears N60°E. and West.
	Descend 45 ft. over SE. slope to
80.00	Set an iron post 3 ft. long, 2 ins. in diam. 29 ins. in the ground for standard cor. of secs. 34 and 35, marked on brass cap

S C
T37N | R3E
S 34 | S 35

1925

from which

A pinion 10 ins. in diam. bears N78½°E.44 lks. dist., marked T37N., R3E., S35 SC.BT.
A pinion 12 ins. in diam. bears N24½°W.23 lks. dist., marked T37N., R3E., S34 SC.BT.

Land, mountainous.
Soil, stony 3 rd. rate.
Timber, cedar, pinin and yellow pine.
Undergrowth, sage and buckbrush.

	East on S.bdy. of sec. 35.
	Descend 161 ft. over SE. slope over stony mountainous land, through heavy timber.
11.72	Gulch, course S.
	Ascend 133 ft. over W. slope.
29.44	Top of ridge, bears N. and S.
	Descend 372 ft. over E. slope.
40.00	Set an iron post 3 ft. long, 1 in. in diam. 18 ins. in the ground to bedrock, supported by a mound of stone 2 ft. base, 1½ ft. high for, standard ¼ sec. cor., marked on brass cap

S C
¼ S 35

1925

from which

A pinion 13 ins. in diam. bears N16°E.125 lks. dist.; marked ¼ S35 SC.BT.
A pinion 8 ins. in diam. bears N58½°W.43 lks. dist., marked ¼ S35 SC.BT.

48.77	Gulch, course S30°E.
67.62	Same gulch, course N65°E.
	Ascend 23 ft. over NW. slope to

Survey of
Ninth Standard Parallel North, through Range 3 East.

Chains	
80.00	Set an iron post 3 ft. long, 2 ins. in diam. 12 ins. in the ground to bedrock, supported by a mound of stone 3 ft. base, 2 ft. high for standard cor. of secs. 35 and 36, marked on brass cap S C T37N | R3E S 35 | S36 1925 from which A pinion 10 ins. in diam. bears N69½°E. 62 lks. dist., marked T37N., R3E., S36 SC.BT. A pinion 10 ins. in diam. bears N25°W. 78 lks. dist., marked T37N., R3E., S35 SC.BT. Land, mountainous. Soil, stony 3 rd. rate. Timber, cedar and pinion. Undergrowth, cedar, sage, and buckbrush.
	East on S. bdy. of sec. 36. Ascend 18 ft. over NW. slope over stony mountainous land, through heavy timber.
4.00	Top of spur, slopes North. Descend 901 ft. over E. slope.
10.06	Top of limestone ledge 50 ft. high, bears N 250 lks. thence E. and South.
15.40	Draw 15 lks. wide in bottom of canyon, course S45°E., continue descent over S. slope along N. side of canyon.
40.00	Set an iron post 3 ft. long, 1 in. in diam. 29 ins. in the ground for standard ¼ sec. cor., marked on brass cap S C ¼ S 36 1925 from which A pinion 11 ins. in diam. bears N7½°W. 23 lks. dist., marked ¼ S36 SC.BT. A pinion 8 ins. in diam. bears N60¾°W. 109 lks. dist., marked ¼ S36 SC.BT. Leave heavy timber bears NW. and SE. enter stattering timber.
50.00	Bottom of canyon bears NE. and SW.
54.96	Wash 15 lks. wide 4 ft. deep, course N80°E. thence over N. slope along S. side of canyon.
74.00	Bottom of same canyon, bears NW. and SE.
74.75	Same wash 15 lks. wide 4 ft. deep, course SE. Ascend 18 ft. over SW. slope to
80.00	Set an iron post 3 ft. long, 3 ins. in diam. 29 ins. in the ground for standard cor. of Ts. 37 N., Rs. 3 and 4 E., marked on brass cap S C T37N R3E | R4E S 36 | S 31 1925

Survey of
Ninth Standard Parallel North, through Range 3 East.

Chains	
	from which
	A cedar 10 ins. in diam. bears N53°E.126 lks. dist. marked T37N.,R4E.,S31 SC.BT.
	A pinion 8 ins. in diam. bears N31¾°W.127 lks. dist., marked T37N.,R3E.,S36 SC.BT.
	Land, mountainous.
	Soil, stony 4 th. rate.
	Timber, cedar and pinion.
	Undergrowth, sage and buckbrush.

Survey of
East boundary of T.37 N.,R.3 E.

Chains	
	From the standard cor.of Townships 37 North,Ranges 3 and 4 East,hereinbefore described,
	North bet. secs.31 and 36.
	Ascend 135 ft. over S.slope over mountainous land,thru. scattering cedar and pinion timber.
4.15	Top of spur,slopes S45°E.continue ascent 298 ft. over SE.slope.
7.53	Boulder 14x8x2 ft. on line.
26.14	Top of ridge bears N80°E. and S80°W.;Wire fence bears N80°E. and S80°W.
	Descend 127 ft.over NW. slope.
40.00	Set an iron post 3 ft. long, 1 in. in diam.5 ins. in the ground to bedrock,supported by a mound of stone 3 ft. base 2½ ft. high,and deposit a limestone 12x10x3 ins.marked with a cross (x) alongside for for ¼ sec. cor.,marked on brass cap

¼

S 36 | S 31

1925

from which

A pinion 12 ins. in diam. bears S69¾°E.99 lks. dist., marked ¼ S31 BT.
A pinion 10 ins. in diam. bears S86½°W.21 lks. dist., marked ¼ S 36 BT.

41.75	Wash 10 lks. wide 2 ft. deep,course E.
	Ascend 209 ft. over S. slope.
49.51	Top of ridge,bears E. and W.
	Descend 62 ft. over N. slope.
55.94	Draw,course E.
	Ascend 37 ft. over S. slope.
60.42	Top of spur,slopes N80°E.
	Descend 135 ft. over NW. slope.
62.33	Forest Service telephone line,bears N80°E. and S80°W.
65.60	Wash 10 lks. wide 2 ft. deep,course E.
	Ascend 13 ft. over S. slope.
66.43	Old road bears N70°E. and S70°W.
67.75	Top of spur,slopes SE.
	Descend 337 ft. over NE. slope.
76.31	Wash,course N30°E.
	Ascend 8 ft. over SE. slope to
80.00	Set an iron post 3 ft. long,2 ins. in diam.27 ins. in the ground for cor. of secs.25,30,31,and 36.marked on brass cap

T37N

R3E | R4E

S 25 | S 30

S 36 | S 31

1925

from which

A pinion 8 ins. in diam. bears N12°E.261 lks. dist., marked T37N.,R4E.,S30 BT.
A pinion 9 ins.in diam.bears S28¼°E.235 lks. dist., marked T37N.,R4E.,S31 BT.
A pinion 8 ins. in diam. bears S31¾°W.44 lks. dist., marked T37N.,R3E.,S36 BT.
A pinion 8 ins. in diam. bears N13°W.98 lks. dist., marked T37N.,R3E.,S25 BT.

Survey of
East boundary of T.37 N.,R.3 East

Chains	
	Land,mountainous. Soil stony 4 th. rate. Timber,cedar and pinion. Undergrowth,none.
	North bet. secs.25 and 30. Ascend 65 ft. over SE.slope over stony mountainous land, through scattering timber.
17.40	Top of spur,slopes N65°E.
	Descend 237 ft. over broken NW.slope
30.62	Wire fence 5 chs.long across Kane Canyon,bears N20°E.and S20°W. Cross water pipe-line,bears E. and W.
33.12	Wash 10 lks.wide in bottom of Kane Canyon,course S70°E.
	Ascend 758 ft. over rocky SW.slope.
40.00	Set an iron post 3 ft. long, 1 in. in diam.2 ins.in the ground to bedrock,supported by a mound of stone 4½ ft. base 2½ ft. high for ¼ sec. cor.,marked on brass cap

¼
S 25 | S 30
1925

from which

A pinion 12 ins. in diam. bears S83¼°E.61 lks. dist., marked ¼ S30 BT.
A pinion 14 ins. in diam. bears S29½°W.69 lks. dist., marked ¼ S25 BT.

55.63	Top of rock ledge 100 ft. high bears N75°W. and S65°E.
64.42	Top of spur,slopes E.
	Descend 102 ft. over N. slope.
70.16	Wash 5 lks. wide 1 ft. deep,course S80°E.
	Ascend 159 ft. over rocky SW.slope.
78.69	Top of spur,slopes E.
	Descend 43 ft. over N. slope to
80.00	Set an iron post 3 ft. long, 2 ins. in diam.4 ins. in the ground to bedrock,supported by a mound of stone 4 ft. base,2½ ft. high for cor. of secs.19,24, 25,and 30.marked on brass cap

T 37 N
R3E | R4E
S24 | S19
S25 | S30
1925

from which

A pinion 8 ins. in diam. bears N54¾°E.41 lks. dist., marked T37N.,R4E.,S19 BT.
A pinion 9 ins. in diam. bears S49¾°E.64 lks. dist., marked T37N.,R4E.S30 BT.
A pinion 8 ins. in diam. bears S51½°W.49 lks. dist., marked T37N.,R3E.,S25 BT.
A pinion 8 ins. in diam. bears N80¾°W.54 lks. dist., marked T37N.,R3E.,S24 BT.

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

Survey of
East boundary of T.37 N., R.3 E.

Chains	
	Timber, cedar and pinion. Undergrowth, none.
	North bet. secs.19 and 24.
	Descend 48 ft. over N.slope over stony mountainous land, through scattering timber.
2.10	Wash 5 lks. wide 1 ft. deep, course N80°E.
	Ascend 111 ft. over SE. slope.
13.18	Top of spur, slopes E.
	Descend 166 ft. over N. slope.
18.60	Wash 10 lks. wide 2 ft. deep, course E.
	Ascend 70 ft. over S. slope.
22.07	Top of spur, slopes E.
	Descend 54 ft. over N. slope.
24.33	Wash 20 lks. wide 10 ft. deep, course E.
	Ascend 216 ft. over S. slope.
40.00	Top of spur, slopes E.; Set an iron post 3 ft. long, 1 in. in diam. 2 ins. in the ground to bedrock, supported by a mound of stone 3½ ft. base 2½ ft. high for ¼ sec. cor., marked on brass cap ¼ S24 | S19 1925
	from which
	A pinion 9 ins. in diam. bears N79°E. 90 lks. dist., marked ¼ S19 BT.
	A pinion 10 ins. in diam., bears N62¾°W. 216 lks. dist., marked ¼ S24 BT.
47.00	Wash 5 lks. wide 1 ft. deep, course S70°E.
	Ascend 185 ft. over SW. slope.
59.87	Top of spur, slopes E.
	Descend 205 ft. over N. slope
67.74	Wash 10 lks. wide 3 ft. deep in bottom of canyon, course East
	Ascend 200 ft. over S. slope.
76.87	Top of spur, slopes E.
	Descend 29 ft. over N. slope to
80.00	Set an iron post 3 ft. long, 2 ins. in diam. 8 ins. in the ground to bedrock, supported by a mound of stone 4 ft. base 1½ ft. high for cor. of secs.13, 18, 19, and 24. marked on brass cap T37N R3E | R4E S 13 | S 18 S 24 | S 19 1925
	from which
	A pinion 4 ins. in diam. bears N28°E. 7 lks. dist., marked BT. only.
	A pinion 9 ins. in diam. bears S48°E. 23 lks. dist., marked T37N., R4E., S19 BT.
	A pinion 12 ins. in diam. bears S55¾°W. 107 lks. dist., marked T37N., R3E., S24 BT.
	A pinion 4 ins. in diam. bears N19½°W. 41 lks. dist., marked BT. only.

Survey of
East boundary of T.37 N.,R.3 E.

Chains	
	Land,mountainous. Soil,stony 4 th. rate. Timber,cedar and pinion. Undergrowth,none.
	North bet. secs.13 and 18.
	Descend 146 ft. over N. slope over stony mountainous land,through scattering timber.
5.35	Wash 10 lks. wide 1 ft. deep,course E.
	Ascend 185 ft. over S. slope.
13.37	Top of spur,slopes E.
	Descend 43 ft. over N. slope.
17.00	Wash 8 lks. wide 1 ft. deep,course S65°E.
	Ascend 67 ft over SW slope.
23.90	Top of ascent on ridge,bears E. and W.thence over rolling land on top of ridge.
40.00	Set an iron post 3 ft. long 1 in. in diam.12 ins. in the ground to bedrock,supported by a mound of stone 3 ft. base 1½ ft. high for ¼ sec. cor.,marked on brass cap
	¼ S 13 | S 18 1925
	from which
	A cedar 8 ins. in diam. bears N40¾°E.81 lks. dist., marked ¼ S18 BT.
	A pinion 7 ins. in diam. bears N69°W.52 lks. dist., marked ¼ S13 BT.
42.00	Descend 274 ft. over N. slope of ridge.
52.75	Gulch,course S80°E.
	Ascend 228 ft. over S. slope.
69.80	Top of ridge,bears N75°E. and S75°W.
	Descend 196 ft. over NW. slope.
77.87	Wash 15 lks. wide 2 ft. deep in bottom of canyon,course N75°E.
	Ascend 41 ft. over SE. slope to
80.00	Set an iron post 3 ft. long, 2 ins. in diam.13 ins. in the ground to bedrock,supported by a mound of stone 3½ ft. base 1½ ft. high for cor. of secs. 7,12,13,and 18. marked on brass cap
	T37N R3E | R4E S 12 | S 7 S 13 | S 18 1925
	from which
	A pinion 8 ins. in diam. bears N4½°E.53 lks. dist., marked T37N.,R4E.,S7 BT.
	A pinion 8 ins. in diam. bears S83¾°E.52 lks. dist., marked T37N.,R4E.,S18 BT.
	A pinion 10 ins. in diam. bears S75¼°W.51 lks. dist., marked T37N.,R3E.,S13 BT.
	A pinion 10 ins. in diam. bears N51¼°W.52 lks. dist., marked T37N.,R3E.,S12 BT.

Survey of
East boundary of T.37 N.,R.3 E.

Chains	
	Land,mountainous. Soil,stony 4 th. rate.. Timber,cedar and pinion. Undergrowth,none.
	North bet. secs.7 and 12. Ascend 14 ft. over S.slope over stony mountainous land through scattering cedar and pinion timber.
1.70	Top of spur,slopes E. Descend 119 ft. over N. slope.
8.97	Wash 10 lks. wide in bottom of canyon,course E. Ascend 188 ft. over S. slope.
16.31	Top of ridge,bears E. and W. Descend 525 ft. over N. slope.
35.81	Wash 15 lks. wide 2 ft. deep,course S75°E. Ascend 347 ft. over SW.slope.
40.00	Set an iron post 3 ft. long, 1 in. in diam.7 ins. in the ground to bedrock,supported by a mound of stone 3½ ft. base 2 ft. high for ¼ sec. cor.marked on brass cap ¼ S 12 | S 7 1925 from which A pinion 7 ins. in diam. bears N84¼°E.45 lks. dist., marked ¼ S7 BT. A pinion 10 ins. in diam. bears S60½°W.23 lks. dist., marked ¼ S12 BT.
46.67	Top of perpendicular rock ledge,75 ft. high,bears N70°W. and S70°E.
50.00	Top of ridge,bears E. and W. Descend 250 ft. over N.slope.to
80.00	Set an iron post 3 ft. long, 2 ins. in diam.4 ins. in the ground to bedrock,supported by a mound of stone 4 ft. base 2½ ft. high for cor. of secs.1,6,7, and 12.marked on brass cap T37N R3E | R4E S 1 | S 6 S12 | S 7 1925 from which A cedar 14 ins. in diam. bears N21¼°E.105 lks. dist., marked T37N.,R4E.,S6 BT. A pinion 10 ins. in diam. bears S45°E.207 lks. dist., marked T37N.,R4E.,S7 BT. A pinion 12 ins. in diam. bears S7½°W.312 lks. dist., marked T37N.,R3E.,S12 BT. A pinion 14 ins. in diam. bears N6°W.75 lks. dist., marked T37N.,R3E.,S1 BT. Land,mountainous. Soil,stony 4 th. rate.. Timber,cedar and pinion. Undergrowth,none..

Survey of
East boundary of T.37 N., R.3 E.

Chains	
	North bet. secs.1 and 6.
	Ascend 7 ft. over S. slope over mountainous land,through scattering timber.
1.10	Top of spur,slopes E.
	Descend 324 ft. over N. slope.
14.80	Draw,course E.
	Ascend 138 ft. over S. slope.
17.51	Top of spur,slopes E.
	Descend 418 ft. over NE. slope.
40.00	Set an iron post 3 ft. long, 1 in. in diam.29 ins. in the ground for ¼ sec. cor.,marked on brass cap

¼
S 1 | S 6
1925

from which

A pinion 7 ins. in diam. bears N22°E.27 lks. dist., marked ¼ S6 BT.
A pinion 7 ins. in diam. bears N87°W.24 lks. dist., marked ¼ S1 BT

42.00	Wash 12 lks. wide 1 ft. deep,course N80°E.Leave timber, bears N80°E. and S80°W.
	Continue along E. slope.
50.00	Point of spur,slopes E.
74.46	Draw,course S80°E.
	Ascend 29 ft. over SW. slope to
80.00	Set an iron post 3 ft. long, 3 ins. in diam.28 ins. in the ground for cor. of Ts.37 and 38 N.,Rs.3 and 4 E.,marked on brass cap

T 38 N
R3E | R4E
S36 | S31
S1 | S6
T.37 N
1925

Raise a mound of stone 4 ft. base,2½ ft. high S.of cor.

Land.mountainous.
Soil,stony 4 th. rate.
Timber,cedar,and pinion.
Undergrowth,sagebrush.

Survey of part of the subdivision lines of T.37 N., R.3 E.

Chains	
	From the standard cor. of secs.35 and 36 on S.bdy.of Tp. hereinbefore described,
	N 0°01'W.bet. secs.35 and 36.
	Descend 75 ft.over N.slope over mountainous land,through cedar and pinion timber.
2.77	Wash 9 lks. wide 3 ft. deep,course N85°E.
	Ascend 184 ft. over S. slope.
11.01	Top of spur,slopes E.
	Descend 45 ft. over N.slope.
14.22	Wash 4 lks. wide 1 ft. deep,course S85°E.
	Ascend 65 ft. over SW.slope.
22.50	Top of spur,slopes S85°E.
	Descend 127 ft. over NE. slope.
31.86	Wash 8 lks. wide 3 ft. deep,course S75°E.
	Ascend 136 ft.over SW.slope.
39.28	Top of spur,slopes E.;Pack trail along top of spur bears E. and W.,thence over level land.
40.00	Set an iron post 3 ft. long, 1 in. in diam.4 ins. in the ground to bedrock,supported by a mound of stone 6 ft. base,2½ ft. high for ¼ sec. cor.marked on brass cap

¼

S 35 | S 36

1925

from which

A pinion 8 ins. in diam. bears N30½°E.11 lks. dist., marked ¼ S36 BT.
A pinion 10 ins. in diam. bears S54¾°W.38 lks. dist., marked ¼ S35 BT.

41.40	Forest Service telephone line bears E. and W.
	Descend 163 ft. over rocky N.slope.
49.42	Wash 8 lks. wide 2 ft. deep,course N50°E.
	Ascend 7 ft. over SE.slope.
51.50	Top of spur,slopes E.
	Descend 7 ft. over N. slope.
52.79	Wash 4 lks. wide 1 ft. deep,course S75°E.
	Ascend 215 ft. over SW. slope.
71.08	Top of spur,slopes N50°E.
	Descend 37 ft. over NW. slope to
80.00	Set an iron post 3 ft. long,2 ins. in diam.12 ins. in the ground to bedrock,supported by a mound of stone 3 ft. base 2 ft. high for cor. of secs. 25,26,35,and 36.marked on brass cap

T37N | R3E
S 26 | S 25
S 35 | S 36

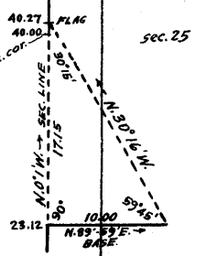
1925

from which

A cedar 14 ins. in diam. bears N35¼°E.39 lks. dist., marked T37N.,R3E.,S25 BT.
A pinion 10 ins. in diam. bears S70°E.35 lks. dist., marked T37N.,R3E.,S36 BT.
A pinion 10 ins. in diam. bears S15¼°W.61 lks. dist., marked T37N.,R3E.,S35 BT.
A cedar 12 ins. in diam. bears N26°W.45 lks. dist., marked T37N.,R3E.,S26 BT.

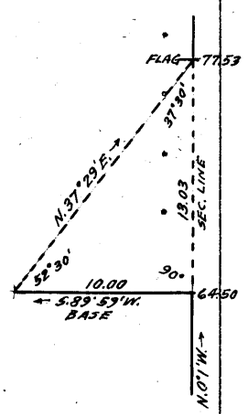
Survey of part of the subdivision lines of T.37 N., R.3 E.

Chains.	
	Land,mountainous. Soil,stony 4 th. rate. Timber,cedar and pinion. Undergrowth,cedar,pinion,sage,and bitterbrush.
	East on a random line bet. secs.25 and 36.
40.00	Set temp.¼ sec. cor.
79.97	Intersect E.bdy.of Tp.4 lks. S.of the cor. of secs.25,30, 31,and 36,hereinbefore described.
	Thence S 89°58'W.on true line bet. secs.25 and 36. Ascend 648 ft. over SE.slope over mountainous land,thru. heavy cedar and pinion timber.
26.06	Top of spur,slopes N45°E. Continue ascent along N.slope.
39.99	Set an iron post 3 ft. long, 1 in. in diam.6 ins. in the ground to bedrock,supported by a mound of stone 3 ft. base 2½ ft. high for ¼ sec. cor.,marked on brass cap ¼ S 25 S 36 1925
	from which
	A pinion 8 ins. in diam. bears N39°E.40 lks. dist., marked ¼ S25 BT. A pinion 8 ins. in diam. bears S 0¼°W.37 lks. dist., marked ¼ S36 BT.
44.01	Wash 5 lks. wide 3 ft. deep,course N85°E.
	Ascend 239 ft. over SE.slope.
60.67	Top of spur,slopes N45°E.
	Descend 33 ft. over NW. slope.
72.59	Wash 4 lks. wide 1 ft. deep,course N55°E.
	Ascend 78 ft.over SE. slope.
79.97	The cor. of secs.25,26,35,and 36.
	Land,mountainous. Soil,stony 4 th. rate. Timber,cedar and pinion. Undergrowth,cedar,pinion,sage,and bitterbrush.
	N 0°01'W.bet. secs.25 and 26.
	Descend 137 ft. over NW.slope over mountainous land, through heavy cedar and pinion timber.
11.27	Wash 6 lks. wide 2 ft. deep,course N55°E.
	Ascend 146 ft. over SE. slope.
21.73	Top of spur,slopes N65°E.thence over rolling land.
23.12	Top of precipitous limestone cliff along south rim of Kane Canyon,bears N70°E. and S70°W;The precipitous character of the cliff being such as to render chaining on line impossible,triangulate as follows;
	Set a flag on line at foot ofcliffs. Vertical angle to flag =-37°10' Measure a base N89°59'E.10.00 chs. dist.from the end of which the flag on line at foot of cliffs



Survey of part of the Subdivision lines of T.37 N.,R.3 E.

Chains	
	bears N30°16'W.
	Dist.on sec. line = 23.12 chs. Dist.by triangulation = 17.15 chs. 40.27 Dist by return meas. = 0.27 40.00
40.00	Set an iron post 3 ft. long,1 in. in diam.4 ins. in the ground to bedrock,supported by a mound of stone 5 ft. base,2½ ft. high for ¼ sec.cor., marked on brass cap ¼ S 26 | S 25 1925
	from which A pinion 8 ins. in diam. bears N35°E.28 lks. dist., marked ¼ S25 BT. A pinion 8 ins. in diam. bears S57½°W.45 lks. dist.,marked ¼ S26 BT. This cor.is 684 ft. below top of cliff. Continue line and measurement by chaining. Descend 231 ft. over rocky N.slope
58.46	Wash 10 lks. wide 4 ft.deep in bottom of Kane Canyon, course N20°E.,thence across bottom of canyon.
59.02	Water pipe-line from Kane spring to Kane,bears N70°W.and S70°E.
59.96	Road from Kane springs to Kane,bears N75°W. and S75°E.
61.66	Sand wash 8 lks. wide,3 ft. deep,course East.
63.96	Kane Canyon wash 15 lks. wide 6 ft. deep,course S75°E.
64.50	Foot of precipitous S.slope impossible to chain on line. triangulate as follows; Set a flag ahead on line on top of cliffs. Vertical angle to flag =+23½° Measure a base S89°59'W.10.00 chs. dist.,from the end of which the flag on line on top of cliffs bears N37°29'E. Dist.on sec.line =64.50 chs. Dist.by triangulation =13.03 chs. 77.53 chs.
77.53	Triangulation station on top of cliff 346 ft. above bottom of canyon. continue line and measurement by chaining. Over rolling land on point of spur.
80.00	Top of spur,slopes W.;Set an iron post 3 ft. long 2 ins. in diam.28 ins. in the ground for cor. of secs. 23,24,25,and 26.marked on brass cap T37N | R3E S 23 | S 24 S 26 | S 25 1925
	from which



Survey of part of the Subdivision lines of T.37 N., R 3 E.

Chains	
	A pinion 8 ins. in diam. bears N46¼°E.103 lks. dist., marked T37N.,R3E.,S24 BT.
	A pinion 14 ins. in diam. bears S7°E.15 lks. dist., marked T37N.,R3E.,S25 BT.
	A pinion 10 ins. in diam.,bears S61°W.44 lks. dist., marked T37N.,R3E.,S26 BT.
	A pinion 8 ins. in diam. bears N50½°W.74 lks. dist., marked T37N.,R3E.,S23 BT.
	Land,mountainous. Soil,stony 4 th. rate. Timber,cedar and pinion. Undergrowth,cedar,pinion,sage,and bitter brush.
	N 89°58'E. on a random line bet. secs.24 and 25.
40.00	Set temp.¼ sec.cor.
80.09	Intersect E. bdy.of Tp.12 lks. S.of the cor. of secs.19, 24,25,and 30. hereinbefore described.
	Thence S 89°53'W. on true line bet. secs.24 and 25.
	Ascend 144 ft. over NE.slope over stony mountainous land, through cedar and pinion timber.
25.79	Top of ridge,bears N40°W. and S40°E.
	Descend 349 ft. over SW.slope.
26.79	Top of limestone rimrock 40 ft. high,bears N40°W.and S40°E.
40.05	Set an iron post 3 ft. long,1 in. in diam.30 ins. in the ground for ¼ sec. cor.,marked on brass cap ¼ S 24 / S 25 1925
	from which A limestone boulder 20x20x10 ft. above ground,bears N7°07'E.16 lks. dist.,marked (+) BO.
	No bearing trees within limits.
	Raise a mound of stone 4 ft. base,3 ft. high N. of cor.
	Note;From this point,Cor.No.1 of the "Kane" unpatented Mill Site, Mineral Survey No.2119-B, Warm Springs mining district, bears S.32°38'E., 51.52 chs.dist.
	A spring,in mouth of tunnel on said Mill Site,from which water is piped to Kane,bears S26°15'E.57.04 chs. dist.
77.79	Top of small spur,slopes S20°W.,continue descent 62 ft. over NW. slope to
80.09	The cor. of secs.23,24,25,and 26.
	Land,mountainous. Soil,stony 4 th. rate. Timber,cedar,and pinion. Undergrowth,cedar,pinion,sage and bitter brush.
	N 0°01'W.bet. secs.23 and 24.
	Descend 50 ft. over NW. slope over stony mountainous land, through scattering cedar and pinion timber.
2.56	Wash 5 lks. wide 1 ft. deep,course S70°W.

Survey of part of the Subdivision lines of T.37 N., R.3 E.

Chains

21.43 Top of N.rim of Kane Canyon on spur,slopes N70°W.;leave scattering timber,bears N70°W. and S70°E.,enter heavy timber.
Descend 101 ft. over N. slope.
30.24 Draw 10 lks. wide 2 ft. deep,course S45°W.
Ascend 21 ft.over SE. slope.
32.12 Top of spur,slopes S85°E.
Descend 14 ft. over NE. slope.
34.91 Same draw,course S15°E.
Ascend 73 ft. over SW.slope
40.00 Set an iron post 3 ft. long, 1 in. in diam.4 ins. in the ground to bedrock,supported by a mound of stone 4 ft. base 2½ ft. high for ¼ sec. cor.,marked on brass cap

¼
S 23 | S 24
1925

from which

A pinion 12 ins. in diam. bears N73½°E.30 lks. dist., marked ¼ S24 BT.
A pinion 8 ins. in diam. bears N10½°W.15 lks. dist., marked ¼ S23 BT.

42.00 Top of spur,slopes W.
Descend 15 ft. over N. slope.
50.00 Draw 3 lks. wide 1 ft. deep,course S10°W.
Ascend 98 ft. over SE.slope.
66.38 Top of spur,slopes N40°W.,thence over level land on spur.
80.00 Set an iron post 3 ft. long, 2 ins. in diam.10 ins. in the ground to bedrock,supported by a mound of stone 3 ft. base 2 ft. high for cor. of secs. 13,14,23,and 24.marked on brass cap

T37N | R3E
S 14 | S 13
S 23 | S 24
1925

from which

A cedar 12 ins. in diam. bears N57°E.76 lks. dist., marked T37N.,R3E.,S13 BT.
A pinion 8 ins. in diam. bears S48½°E.82 lks. dist., marked T37N.,R3E.,S24 BT.
A pinion 8 ins. in diam. bears S66¾°W.62 lks. dist., marked T37N.,R3E.,S23 BT.
A pinion 8 ins. in diam. bears N42¾°W.70 lks. dist., marked T37N.,R3E.,S14 BT.

Land,mountainous.
Soil,stony 4 th. rate.
Timber,cedar and pinion.
Undergrowth,cedar,pinion,sage,and bitter brush.

N 89°53'E. on a random line bet. secs.13 and 24.
40.00 Set temp.¼ sec. cor.
80.04 Intersect E. bdy.of Tp.12 lks. S.of the cor. of secs. 13,18,19,and 24.hereinbefore described
Thence
S 89°48'W.on true line bet. secs.13 and 24.

Survey of part of the Subdivision lines of T.37 N.,R.3 E.

Chains	
	Descend 30 ft. over NW. slope over stony mountainous land through heavy cedar and pinion timber.
15.94	Wash 4 lks. wide 1 ft. deep, course N40°E.
	Ascend 228 ft. over SE. slope.
26.07	Top of steep ascent. continue gradual ascent
40.02	Set an iron post 3 ft. long, 1 in. in diam. 12 ins. in the ground to bedrock, supported by a mound of stone 2 ft. base, 2 ft. high for ¼ sec. cor. marked on brass cap

¼ S 13
S 24

1925

from which

A pinion 10 ins. in diam. bears N12°W. 24 lks. dist., marked ¼ S13 BT.
A cedar 14 ins. in diam. bears S41°W. 106 lks. dist., marked ¼ S24 BT.

50.04	Top of ridge bears N89°E. and S89°W. thence over level land on top of ridge.
80.04	The cor. of secs. 13, 14, 23, and 24.

Land, mountainous.
Soil, stony 4 th. rate.
Timber, cedar and pinion.
Undergrowth, cedar, pinion, sage, and bitter brush.

From the standard cor. of secs. 34 and 35 on S.bdy. of Tp. hereinbefore described,
N 0°01'W. bet. secs. 34 and 35.
Ascend 27 ft. over SE. slope over mountainous land thru. heavy cedar and pinion timber.

2.96	Top of spur, slopes E.
	Descend 120 ft. over N. slope.
11.36	Wash 3 lks. wide 1 ft. deep, course S80°E.
	Ascend 121 ft. over SW. slope.
23.59	Top of spur, slopes N70°E. thence over level land on top of spur.
26.08	Forest Service telephone line bears N80°W. and S80°E.
26.49	Pack trail, bears N80°W. and S80°E.
40.00	Set an iron post 3 ft. long, 1 in. in diam. 22 ins. in the ground to bedrock, supported by a mound of stone 2 ft. base 1 ft. high for ¼ sec. cor. marked on brass cap

¼
S 34 | S 35

1925

from which

A cedar 10 ins. in diam. bears S32½°E. 50 lks. dist., marked ¼ S35 BT.
A pinion 8 ins. in diam. bears N79½°W. 37 lks. dist., marked ¼ S34 BT.

Survey of part of the Subdivision lines of T.37 N., R.3 E.

Chains	
	Descend 120 ft. over N. slope.
64.12	Wash 3 lks. wide 1 ft. deep, course N85°E.
	Ascend 68 ft. over SE. slope.
70.89	Top of spur, slopes N40°E.
	Descend 28 ft. over NW. slope to
80.00	Set an iron post 3 ft. long, 2 ins. in diam. 28 ins. in the ground for cor. of secs. 26, 27, 34, and 35. marked on brass cap

T37N \| R3E
S 27 \| S 26
S 34 \| S 35

1925

from which

A cedar 10 ins. in diam. bears N32¾°E. 76 lks. dist., marked T37N., R3E., S26 BT.
A cedar 12 ins. in diam. bears S42½°E. 36 lks. dist., marked T37N., R3E., S35 BT.
A pinion 8 ins. in diam. bears S31¾°W. 28 lks. dist., marked T37N., R3E., S34 BT.
A pinion 10 ins. in diam. bears N74½°W. 75 lks. dist., marked T37N., R3E., S27 BT.

Land, mountainous.
Soil, stony 4 th. rate.
Timber, cedar and pinion.
Undergrowth, cedar, pinion, bitter and sage brush.

	East on a random line bet. secs. 26 and 35.
40.00	Set temp. ¼ sec. cor.
79.93	Intersect N. and S. line at the cor. of secs. 25, 26, 35, and 36.
	Thence
	West on true line bet. secs. 26 and 35.
	Descend 49 ft. over W. slope over stony mountainous land through heavy cedar and pinion timber.
5.91	Ravine 6 lks. wide 2 ft. deep, course N20°E.
	Ascend 97 ft. over SE. slope.
18.04	Top of spur, slopes N10°E.
	Descend 80 ft. over NW. slope.
24.86	Wash 4 lks. wide 1 ft. deep, course N10°E.
	Ascend 117 ft. over SE. slope.
35.27	Top of spur, slopes N40°E.
	Descend 100 ft. over NW. slope.
39.97	Set an iron post 3 ft. long, 1 in. in diam. 12 ins. in the ground to bedrock, supported by a mound of stone 3 ft. base, 2 ft. high for ¼ sec. cor., marked on brass cap

¼ S 26
S 35

1925

from which

A cedar 8 ins. in diam. bears N4½°W. 32 lks. dist., marked ¼ S26 BT.
A pinion 8 ins. in diam. bears S38°E. 32 lks. dist., marked ¼ S35 BT.

Survey of part of the Subdivision lines of T.37 N.,R.3 E.

Chains	
40.02	Wash 4 lks. wide 1 ft. deep, course N20°E.
	Ascend 97 ft. over SE. slope.
53.20	Top of spur, slopes N30°E.
	Descend 97 ft. over NW. slope.
64.09	Wash 3 lks. wide 1 ft. deep, course N20°E.
	Ascend 115 ft. over SE. slope.
72.95	Top of spur, slopes N40°E.
	Descend 23 ft. over NW. slope to
79.93	The cor. of secs. 26, 27, 34, and 35.
	Land, mountainous.
	Soil, stony 4 th. rate.
	Timber, cedar and pinion.
	Undergrowth, cedar, pinion, sage, and bitter brush.
	N 0°01'W. bet. secs. 26 and 27.
	Descend 500 ft. over NW. slope over stony mountainous land, through heavy cedar and pinion timber.
28.81	Top of cliffs, 150 ft. high along S. rim of Kane Canyon, bears N80°E. and S80°W.
40.00	Set an iron post 3 ft. long, 1 in. in diam. 28 ins. in the ground for ¼ sec. cor., marked on brass cap

¼

S 27 | S 26

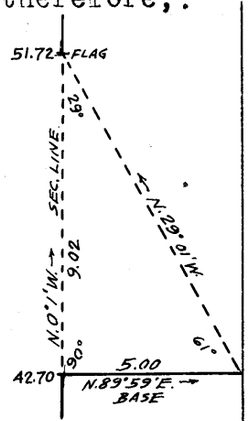
1925

from which
A pinion 8 ins. in diam. bears S60½°E. 41 lks. dist., marked ¼ S26 BT.
A pinion 8 ins. in diam. bears S88½°W. 20 lks. dist., marked ¼ S27 BT.
Continue descent 87 ft. over NW. slope into canyon.

42.70 Wash 12 lks. wide 6 ft. deep, course NE. in bottom of Kane Canyon.

The precipitous ascent of N. wall of canyon is such as to render chaining on line impossible therefore, triangulate as follows;

Set a flag ahead on line on N. rim of canyon. vertical angle to flag =+50°
Measure a base N89°59'E. 5.00 chs. dist. from the end of which the flag on line on rim of canyon bears N29°01'W.



Dist. on sec. line =42.70 chs.
Dist. by triangulation = 9.02 chs.
51.72 chs

51.72 To triangulation station on N. rim of Kane Canyon 456 ft. above bottom, bears N60°E. and S60°W.
Continue line and measurement by chaining. Ascend 28 ft. along top of spur, slopes S. to
80.00 Set an iron post 3 ft. long, 2 ins. in diam. 24 ins. in the ground to bedrock for cor. of secs. 22, 23, 26, and 27 marked on brass cap

Survey of part of the Subdivision lines of T.37 N.,R 3 E.

Chains	
	T37N | R3E S 22 | S 23 S 27 | S 26 1925
	from which
	A pinion 8 ins. in diam. bears N75¼°E.54 lks.dist., marked T37N.,R3E.,S23 BT. A pinion 8 ins. in diam. bears S35¼°E.173 lks. dist., marked T37N.,R3E.,S26 BT. A pinion 10 ins. in diam. bears S44°W.45 lks. dist., marked T37N.,R3E.,S27 BT. A pinion 9 ins. in diam. bears N33¾°W.47 lks.dist., marked T37N.,R3 E.,S22 BT.
	Land,mountainous. Soil,stony 4 th.rate. Timber,cedar and pinion. Undergrowth,cedar,pinion,sage,and bitter brush.
	East on a random line bet. secs.23 and 26.
40.00	Set temp.¼ sec. cor.
79.86	Intersect N. and S. line 3 lks. N.of the cor. of secs. 23,24,25,and 26.
	Thence N 89°59'W.on true line bet. secs.23 and 26. Descend 279 ft. over W.slope over mountainous land thru scattering cedar and pinion timber.
10.78	Wash 9 lks. wide 3 ft. deep,course S15°W. Ascend 87 ft. over SE.slope
19.37	Top of spur,slopes S10°W. Descend 48 ft. over NW.slope
36.64	Wash 7 lks. wide 3 ft. deep,course S25°E. Ascend 56 ft. over NE. slope
38.40	Water pipe-line,bears N20°W. and S20°E;conveys water to buildings at Kane.
38.59	Intersect line 1-2 of the"KANE" unpatented lode mining claim, Mineral Surv.No.2119-A, Warm Springs mining district, at a point 1.075chs.N.20°32'W.of cor. No.1 and 20.655 chs.S20°32'E. of cor.No.2 of said claim. The bearing and length of line 2-3 of the"KANE"are S72°58'W.6.31 chs.
39.93	Set an iron post 3 ft. long,1 in. in diam.6 ins. in the ground to bedrock,supported by a mound of stone 5 ft. base 2½ ft. high for ¼ sec. cor., marked on brass cap ¼ S 23 S 26 1925
	from which
	A pine 6 ins. in diam.bears N2½°E.66 lks. dist., marked ¼ S23 BT. A pine 12 ins. in diam.bears S42¾°W.15 lks. dist., marked ¼ S26 BT.
	Note; From this cor. U.S.L.M.No.4 bears S31°52'E.4.94 chs dist. A spring at upper end of pipe-line,bears N28°41'W. 16.68 chs.dist.
45.41	Intersect line 3-4 of the"KANE" unpatented lode mining claim, Mineral Surv.No.2119-A at a

Survey of part of the Subdivision lines of T.37 N.,R.3 E.

Chains	
	point 3.02 chs.N20°17'W.of cor.No.4 and 18.64 chs.S20°17'E.of cor.No.3 of said claim.
	The bearing and length of line 1-4 of the "KANE"are S73°30'W. 6.41 chs.
	Ascend 517 ft. over NE. slope
57.37	Top of limestone rimrock,bears N30°E. and S30°W.continue ascent 46 ft. over SE.slope of spur.
59.76	Top of spur,slopes N45°E.
	Descend 34 ft. over NW. slope.
67.41	Wash 3 lks. wide 1 ft. deep,course N20°E.
	Ascend 104 ft. over SE. slope.
76.26	Top of ascent on spur,slopes S.thence over rolling land on top of spur.
79.86	The cor. of secs.22,23,26,and 27.
	Land,mountainous.
	Soil,stony and gravelly 3 rd. rate.
	Timber,cedar and pinion.
	Undergrowth,cedar,pinion,and sagebrush.

	N 0°01'W. bet. secs.22 and 23.
	Descend 190 ft.over NW.slope over rolling mountainous land,through heavy cedar and pinion timber.
24.56	Wash 4 lks. wide 1 ft. deep,course S60°E.
	Ascend 169 ft. over SW.slope.
40.00	Set an iron post 3 ft. long,1 in. in diam.10 ins. in the ground to bedrock,supported by a mound of stone 3 ft. base 2 ft. high for 1/4 sec. cor.,marked on brass cap

1/4
S 22 | S 23
1926

from which

A pinion 8 ins. in diam.bears N58¼°E.82 lks. dist., marked 1/4 S23 BT
A pinion 14 ins. in diam.bears S69¾°W.60 lks. dist., marked 1/4 S22 BT.

51.00	Top of spur,slopes S70°E.thence over level land on top of spur.
80.00	Set an iron post 3 ft. long,2 ins. in diam.10 ins. in the ground to bedrock,supported by a mound of stone 3 ft. base,2 ft. high for cor. of secs. 14,15,22,and 23.,marked on brass cap

T37N | R3E
S 15 | S 14
S 22 | S 23
1926

from which

A pinion 14 ins. in diam. bears N43°E.62. lks dist., marked T37N.,R3E.,S14 BT.
A pinion 16 ins. in diam. bears S61½°E.10 lks. dist., marked T37N.,R3E.,S23 BT.
A pinion 12 ins. in diam. bears S75°W.55 lks. dist., marked T37N.,R3E.,S22 BT.
A cedar 24 ins. in diam.bears N43°W.50 lks. dist., marked T37N.,R3E.,S15 BT.

Survey of part of the Subdivision lines of T.37 N.,R.3 E.

Chains.

Land,level and mountainous.
Soil,stony 4 th. rate.
Timber,cedar and pinion.
Undergrowth,cedar,pinion,and sagebrush.

S 89°59'E.on a random line bet. secs.14 and 23.

40.00 Set temp.¼ sec. cor.

79.81 Intersect N. and S.line 5 lks. S.of the cor. of secs. 13,14,23,and 24.

Thence
S 89°59'W.on true line bet.secs.14 and 23.
Descend 29 ft. along top of spur,slopes W.over mountainous land,through heavy cedar and pinion timber.

13.98 Draw,course S5°E.
Ascend 47 ft. over NE.slope.

39.91 Top of ascent on flat top spur,slopes E.;Set an iron post 3 ft. long, 1 in. in diam.6 ins. in the ground to bedrock,supported by a mound of stone 4 ft. base 2½ ft. high for ¼ sec. cor.,marked on brass cap

¼ S 14
S.23

1926

from which

A pinion 8 ins. in diam. bears N3½°E.63 lks. dist., marked ¼ S14 BT.
A pinion 10 ins. in diam. bears S37°W.102 lks. dist., marked ¼ S23 BT
Over level land on top of spur.

79.81 The cor. of secs.14,15,22,and 23.

Land,level and mountainous.
Soil,gravelly and stony 4 th. rate.
Timber,cedar and pinion.
Undergrowth,sagebrush.

FINAL TEST OF BUFF TRANSIT NO.9977

The continued satisfactory adjustment of Buff transit No.9977 during the survey of T37N.,R3E. is indicated,as shown by the preliminary field test preceding the survey of T36N.,R4E.,described in Book "D" of this group.

FINAL TEST OF YOUNG AND SONS TRANSIT NO.8534.

The satisfactory adjustment of Young and Sons transit No. 8534 during the survey of T37N.,R3E. is indicated as shown by the succeeding preliminary field test of the instrument,preceding the survey of T39N., R3E.,described in Book "H" of this group.

Latitudes, Departures, and closing errors of Subdivisional area in T37N., R3E. surveyed under this Group.

Line Designated	True course	Dist.	Latitudes		Departures	
			N.	S.	E.	W.
		Chs.	Chs.	Chs.	Chs.	Chs.
South boundary (9th. Std. Par. N)	West	160.00				160.00
Subdivisional Bdry.	N0°01'W	240.00	240.00			0.07
	N89°59'E	79.81	.02		79.81	
	N89°48'E	80.04	.28		80.04	
East boundary	South	240.00		240.00		
Convergency					.09	
	Totals---------		240.30	240.00	159.94	160.07
			240.00			159.94
	Error in Lat.		0.30			
	Error in Dep.					0.13

GENERAL DESCRIPTION

The part of T37N., R3E. which was surveyed under this group is rough and mountainous in its entirety, the soil being for the most part 4 th. rate in character.

The land is highest in the vicinity of the subdivisional boundaries and slopes in a northeasterly and southeasterly direction from said boundaries toward Kane Canyon which crosses through the surveyed area in a southeasterly direction near the central part and is the principal source of drainage of the land.

The surveyed area is heavily timbered with cedar and pinion trees many of which are quite large.

A good supply of fresh water is furnished by two springs known as Kane Springs, located on the "Kane" Mill Site in sec. 25 and the "Kane" mining claim in sec. 23; The water from these springs being piped to the buildings at Kane in sec. 31 of T37N., R4E. for domestic purposes.

Some copper ore has been found in sec. 23.

There are no settlers residing on the land at the present time. and no permanent habitations have been built.

The entire township is within the Kaibab National Forest.

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FIELD ASSISTANTS.

to

William E. Hiester, U.S. Surveyor and David M. Daugherty, U.S. Transitman

NAMES.	CAPACITY.
Clifford E. Way	First chainman
Clyde Cowoer	First Chainman
Harold Hawkins	Second chainman
Chester A. Stewart	Second Chainman
Owen Wright	Flagman
Karl S. Perkins	Flagman
Athole Judd	Cornerman
Clarence Laub	Cornerman.
Milo Standworth	Cornerman.
Leland Hall	Axman

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BOOK 3748
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CERTIFICATE OF UNITED STATES SURVEYORS

We, William E. Hiester, U.S. Surveyor and David M. Daugherty, U.S. Transitman hereby certify upon honor that, in pursuance of special instructions received from the U. S. Surveyor General, for Group 126, Arizona bearing date of the fourth day of January 1924, 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 the Ninth Standard Parallel North, in Range 3 East, the East boundary and Subdivision lines of Township 37 North, Range 3 East of the Gila and Salt River Base and Meridian, in the State of Arizona, which are represented in the foregoing field notes and by diagram on page 1 hereof as having been executed by us, and under our direction; and 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 Group 126, Arizona, and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey.

Place: Phoenix, Arizona.
Date: November 17, 1926
Place: Carlsbad, New Mexico.
Date: February 12, 1927.

William E. Hiester
U. S. Surveyor.

David M. Daugherty
U.S. Transitman.

APPROVAL.

OFFICE OF THE U.S. SUPERVISOR OF SURVEYS.

Denver, Colo., April 29, 1927.

The foregoing field notes of the survey of the 9th Standard Parallel North thru Range 3 East, the East boundary and Part of the Subdivision lines of Township 37 North, Range 3 East of the Gila and Salt River Base and Meridian in the State of Arizona

executed by William E. Hiester, U.S. Surveyor and David M. Daugherty, U.S. Transitman under special instructions dated January 4, 1924 for Group 126, Ariz., having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

Franklin Pierce
U.S. Supervisor of Surveys.

~~I certify that the foregoing transcript of the field notes of the above described surveys in ..... has been correctly copied from the original notes on file in this office.~~

~~U. S. Surveyor General.~~

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