

4288

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(April 1938)

Original
UNITED STATES
DEPARTMENT OF THE INTERIOR
GENERAL LAND OFFICE

Book A.

FIELD NOTES

BOOK 4288

4288

Of the Dependent Resurvey of a Portion of the First Standard
Parallel North, through Ranges 9 and 10 West, a Portion of the
East Boundary and a Portion of the Subdivisional Lines,

and

The Survey of Subdivision-of-Section Lines in Sections

10, 22, 25 and 26,

Township 5 North, Range 10 West,

Of the Navajo Meridian,

In the State of Arizona

EXECUTED BY

John L. Warboys, Cadastral Engineer,

Ty White, Assistant Cadastral Engineer, and

Claude F. Warner, Transitman and Assistant Cadastral
Engineer, General Land Office,

Under special instructions dated Sept. 17, 1940 & Sept. 17, 1942, which provided
for the surveys included under Group No. 235, bearing the approval of the
Commissioner of the General Land Office under date of Jan. 16, 1941 & Oct. 30, 1942
and assignment instructions dated Oct. 1, 1940 & Sept. 17, 1942

Survey commenced November 13, 1940.

Survey completed October 11, 1942.

1A

BOOK 4286

INDEX DIAGRAM.

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The resurveys hereinafter described were executed by John L. Warboys, Cadastral Engineer, using Buff solar transit No. 16724, and Claude F. Warner, U.S. Transitman, using Buff solar transit No. 9984. The instruments comply with the standard specifications of the General Land Office and were placed in satisfactory adjustment prior to beginning the survey, and were approved by the district cadastral engineer on October 1, 1940.

We examine all the instrumental adjustments before making the field tests hereinafter recorded.

The directions of the lines were determined by solar transit method. The measurements were made with two Lallie steel tapes, each 5 chs. in length, graduated every link for the first 100 lks. and the balance at intervals of 10 lks. The tapes were tested by comparison with a Lufkin standard and found correct. The measurements were made on the slope and the vertical angle of each interval was ascertained by a clinometer in good adjustment; the horizontal equivalents are entered in the field note record.

The geographic position in approx. sec. 29, T. 5 N., R. 9 W., is determined by scaling on U.S.G.S. topographic advance sheet, latitude $36^{\circ}07'N.$, and longitude $109^{\circ}27'30"W.$

October 11, 1940, in camp SE. of Chin Lee, Arizona, approx. sec. 29, T. 5 N., R. 9 W., using Buff solar transit No. 16724, at 8h 45m 31s p.m., l.m.t., I make an hour angle observation on Polaris east of the meridian, making four readings, two each with the telescope in direct and reversed positions and deflecting the horizontal angles from a nail firmly driven in a tree about 6 chs. distant, left to Polaris.

L.M.T of observation	8h 45m 31s
Mean horizontal angle	$18^{\circ}30'30''$
Azimuth of Polaris	$1^{\circ}01'50''$
Bearing to reference point	N. $19^{\circ}32'20''$ E.
Mean observed vertical angle	$36^{\circ}43'34''$
Reduced latitude	$36^{\circ}07'13''$

October 12,

Every 30 minutes from 8 to 10 a.m., and from 2 to 4 p.m., we make proper settings on the arcs of the solar attachments and ascertain that the resulting orientation of the instruments, when compared with the meridian established by Polaris observation, has a maximum error of less than $1'30''$.

We repeat the tests of the arcs daily by noon observations, and verify the meridional indications at frequent intervals throughout the survey.

October 4, 1942, the survey was resumed by Ty White, Assistant Cadastral Engineer, using Buff solar transit No. 16724, and Claude F. Warner, Assistant Cadastral Engineer, using Buff solar transit No. 9984, property of the General Land Office. The instruments were approved by the district cadastral engineer on Sept. 17, 1942.

In camp approx. 20 chs. SE. of the $\frac{1}{4}$ sec. cor. of secs. 24 and 25, T. 5 N., R. 10 W., Navajo Land Meridian, Arizona., using Buff solar transit No. 16724, at 6h 56m 01s p.m., l.m.t., I observe Polaris at eastern elongation, making two sights each with the telescope in direct and reversed positions, and deflecting the horizontal angles from a nail in a peg driven firmly in the ground about 7 chs. distant, right to Polaris.

Mean deflection angle	$19^{\circ}16'00''$
Azimuth of Polaris	$1^{\circ}15'04''$
True bearing to reference point	N. $0^{\circ}00'56''$ W.

October 5, 1942.

Resurvey of a Portion of the 1st Standard Parallel North, through R. 9 W.

Chains In order to verify the latitude of this station, I make an hour-angle observation of Polaris east of the meridian, making four readings, two each with the telescope in direct and reversed positions.

Mean watch time of observation p.m. 7h 05m 00s
 Watch fast of 105th meridian standard time 1h 00m 00s
 Mean observed altitude 35° 51' 00"
 Reduced latitude 36° 07' 36"

Every 30 minutes from 8 to 10 a.m., and from 2 to 4 p.m., we make proper settings on the arcs of the solar attachments and ascertain that the resulting orientation of the instruments, when compared with the meridian established by polaris observation, has a maximum error of less than 1.50". We repeat the tests of the arcs daily by noon observations, and verify the meridional indications at frequent intervals throughout the survey.

The 1st Standard Parallel North, through R. 9 and 10 W., and the E. bdy. and subdivisions of T. 5 N., R. 10 W., were originally surveyed in 1869 by E. W. Darling, U.S. Surveyor and Astronomer.

The W. and S. bds. of sec. 15, T. 5 N., R. 10 W., were resurveyed in 1935 by B. J. Kinsey, U.S. Surveyor.

Preliminary to the resurvey, the lines of the original survey are retraced and diligent search is made for all original corners. Missing corners that are needed for the completion of the resurvey are then reestablished at proportionate positions. The retracement data is thoroughly verified and to gain simplification only the true line field notes are recorded herein.

Beginning at the standard $\frac{1}{4}$ sec. cor. of sec. 31, R. 9 W., which is a sandstone, 20 1/2 ins. above ground, firmly set, mkd. SC $\frac{1}{4}$ on N. face.

In place of old corner stone which is buried alongside set an iron post, 3 ft. long, 1 in. diam., 10 ins. in the ground to bedrock, and in a mound of stone, 4 ft. base, 2 ft. high, for standard $\frac{1}{4}$ sec. cor., with brass cap mkd.

A juniper, 4 ins. diam., bears N. 56 $\frac{1}{2}$ ° E., 15 lks. dist., mkd. $\frac{1}{4}$ S 31 S C B T.

A juniper, 15 in. diam., bears N. 28° E., 153 lks. dist., mkd. $\frac{1}{4}$ S 31 S C B T.

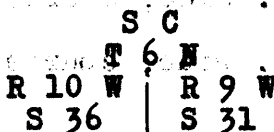
N. 87 $\frac{1}{2}$ ° W. on true line along S. bdy. of sec. 31.

Over rolling-hills, through scattered timber and undergrowth.

Asc. 6 ft.

Resurvey of a Portion of the 1st Standard Parallel North,
through R. 9 W.

- Chains
- 1.90 Spur, slopes S.; desc. 12 ft.
- 3.15 Ravine, 10 lks. wide, course S.; asc. 23 ft. over SE. slope.
- 10.90 Ridge, bears NE. and SW.; desc. 28 ft. over slight NW. slope.
- 28.35 Road, bears N. and S.
- 30.95 Ravine, 10 lks. wide, course SW.; asc. 6 ft. over SE. slope.
- 37.45 Road, bears NW. and SE.
- 40.58 The standard cor. of Tps. 6 N., Rs. 9 and 10 W., which is a sandstone, 20x18x12 ins. above ground, mkd. with 6 notches on E. N. and S. faces.
- In place of corner stone which is buried alongside
- Set an iron post, 3 ft. long, 3 ins. diam., 10 ins. in the ground to bedrock, and in a mound of stone, 5 ft. base, 2 ft. high, for standard cor. of Tps. 6 N., Rs. 9 and 10 W., with brass cap mkd.



1940

from which

A juniper, 4 ins. diam., bears N. 20° E., 306 lks. dist., mkd. T 6 N R 9 W S 31 S C B T.

A juniper, 4 ins. diam., bears N. 26½° W., 269 lks. dist., mkd. T 6 N R 10 W S 36 S C B T.

Land, rolling hills.
Soil, sandy, 3rd rate; and rocky, 4th rate.
Timber, scattered juniper; undergrowth, Mormon tea and grass.

Resurvey of a Portion of the 1st Standard Parallel North,
through R. 10 W.

From the standard cor. of Tps. 6 N., Rs. 9 and 10 W.

S. 89° 27' W., on true line along S. bdy. of sec. 36.

Over rolling hills, through scattered timber and undergrowth.

- 15.00 Low ridge, bears NE. and SW.; desc. 62 ft. over NW. slope.
- 34.80 Ravine, 10 lks. wide, course NW.; desc. 11 ft. over NW. slope.
- 37.93 Ravine, 10 lks. wide, course NW.; continue ascending 4 ft. over NW. slope.
- 41.26 The standard ¼ sec. cor., which is a flat surface rock, mkd. ¼ on top.

At point for cor.

4. Resurvey of a Portion of the 1st Standard Parallel North, R. 9 through R. 10 W.

Chains	Set an iron post, 3 ft. long, 1 in. diam., on surface of rock, and in a mound of stone, 5 ft. base, 3 ft. high, for standard $\frac{1}{4}$ sec. cor., with brass cap mkd.
	S C $\frac{1}{4}$ S 36
	1940
	from which
	A juniper, 8 ins. diam. bears N. $26\frac{1}{2}^{\circ}$ E., 203 lks. dist., mkd. $\frac{1}{4}$ S 36 S C B T.
	A pinyon pine, 8 ins. diam., bears N. $74\frac{1}{2}^{\circ}$ W., 64 lks. dist., mkd. $\frac{1}{4}$ S 36 S C B T.
	Thence N. $88^{\circ} 53'$ W., on true line along S. bdy. of sec. 36.
.60	E. rim of cove, bears N. and S.; desc. 84 ft. over NW. slope.
2.30	Ravine, 10 lks. wide, course NW.
4.20	Ravine, 10 lks. wide, course N.
6.06	Ravine, 10 lks. wide, course N.; asc. 20 ft. over NE. slope.
8.00	W. rim of cove, bears N. and S.; desc. 53 ft. over W. slope.
15.76	Wash, 15 lks. wide, course N.
28.32	S. rim of canyon, bears SW. and NE.; desc. 59 ft. over NW. slope.
29.00	Bottom of canyon, bears SW. and NE.; asc. 18 ft. over SE. slope.
29.90	N. rim of canyon, bears SW. and NE.; asc. 8 ft. over SE. slope.
40.47	Proportional distance

Set an iron post, 3 ft. long, 2 ins. diam., 18 ins. in the ground to bedrock, and in a mound of stone, 3 ft. base, 1 1/2 ft. high, for standard cor. of secs. 35 and 36, with brass cap mkd.

S C
T 6 N R 10 W

$\frac{1}{4}$ S 36 S C B T

1940

raise a mound of stone, 6 ft. base, 4 ft. high, N. of cor.

The standard cor. is located at base of cliff on W. side of canyon.

Land, rolling hills.
Soil, sandy, 3rd rate; and rocky, 4th rate.
Timber, scattered juniper and pinyon pine; undergrowth, Mormon tea and grass.

Resurvey of a Portion of the 1st Standard Parallel North,
through R. 10 W.

Chains	N.88°53'W., on true line along S. bdy. of sec. 35. Over rolling hills, through scattered timber and undergrowth. Asc. 40 ft. over SE. slope.
5.30	Top of rocky spur, slopes SW.; desc. 68 ft. over W. slope.
8.92	Dry wash, 40 lks. wide, course S.; asc. 67 ft. over SE. slope.
13.50	Spur, slopes SW.; desc. 13 ft. over gradual W. slope.
20.34	Road, bears NE. and SW.; desc. 11 ft.
21.14	Road, bears NE. and SW.; desc. 17 ft.
25.94	Road, bears NE. and SW.; desc. 17 ft.
30.53	Ravine, 10 lks. wide, course SW.
32.54	Low spur, slopes SW.; desc. 32 ft. over NW. slope.
35.33	Dry wash, 20 lks. wide, course SW.; asc. 9 ft. over SE. slope.
40.47	Proportional distance Set an iron post, 3 ft. long, 1 in. diam., 18 ins. in the ground to bedrock, and in a mound of stone to top, for standard $\frac{1}{4}$ sec. cor., with brass cap mkd. $\begin{array}{c} S C \\ \frac{1}{4} S 35 \end{array}$ 1940 from which A juniper, 4 ins. diam., bears N.41°E., 168 lks. dist., mkd. $\frac{1}{4}$ S 35 S C B T. A juniper, 2 ins. diam., bears N.34 $\frac{3}{4}$ °W., 64 lks. dist., mkd. $\frac{1}{4}$ S 35 S C B T. Desc. 70 ft. over NW. slope.
54.52	Ravine, 10 lks. wide, course W.; continue along ravine.
60.74	Leave ravine, course NW.; desc. 33 ft.
71.85	Ravine, 10 lks. wide, course NW.
72.43	Road, bears SE. and NW.; asc. 17 ft.
78.14	Trail, bears N. and S.
80.94	The standard cor. of secs. 34 and 35, which is an outcrop of sandstone, with 6 notches to the N., 2 notches to the E., and 4 notches to the W. At point for cor., Set an iron post, 3 ft. long, 2 ins. diam., 28 ins. in a crevice, for standard cor. of secs. 34 and 35, with brass cap mkd.

Resurvey of a Portion of the 1st Standard Parallel North,
through R. 10 W.

Chains

S C
T 6 N R 10 W
S 34 | S 35

1940

raise a mound
of stone, 5 ft. base, 4 ft. high, N. of cor. 4 ft. dist.

Land, rolling hills.

Soil, rocky 4th rate.

Timber, scattered juniper and pinyon pine; undergrowth,
Mormon tea and grass.

Resurvey of a Portion of the E. Bdy. of T. 5 N., R. 10 W.

The cor. of Tps. 4 and 5 N., Rs. 9 and 10 W., is a broken sandstone boulder, 17x15x4 ins. when assembled, mks. visible T 5 S and 6 notches.

In place of corner stone which is buried alongside

Set an iron post, 3 ft. long, 3 ins. diam., on bedrock, with a cross X, mkd. at base of post, and in a mound of stone, 5 ft. base, 3 ft. high, for cor. of Ts. 4 & 5 N., Rs. 9 and 10 W., with brass cap mkd.

T 5 N
R 10 W | R 9 W
S 36 | S 31
S 1 | S 6

T 4 N

1940

from which

A pinyon pine, 8 ins. diam., bears N. $21\frac{1}{4}^{\circ}$ E., 284 lks. dist., mkd. T 5 N R 9 W S 31 B T.

A pinyon pine, 12 ins. diam., bears N. $7\frac{1}{2}^{\circ}$ W., 160 lks. dist., mkd. T 5 N R 10 W S 36 B T.

N. $4^{\circ}04'W.$, on true line bet. secs. 31 and 36.

Over nearly barren sandstone, through scattered timber and undergrowth.

18.29 S. rim of canyon, bears NW. and SE.; desc. 132 ft. over NE. slope.

23.59 Center of canyon, 300 lks. wide, with stream, course W.; asc. 127 ft. over SW. slope.

29.30 N. rim of canyon, bears NW. and SE.

47.64 $\frac{1}{2}$ Proportional distance

Set an iron post, 3 ft. long, 1 in. diam., on bedrock, with a cross X, mkd. at base of post, and in a mound of stone, 5 ft. base, 3 ft. high, for $\frac{1}{2}$ sec. cor. of sec. 36 only, with brass cap mkd.

Resurvey of a Portion of the E. Bdy. of T. 5 N., R. 10 W. 7

Chains

S 36

1940

from which

A pinyon pine, 10 ins. diam., bears S.65½°W., 153 lks. dist., mkd. S 36 B T.

No other bearing tree available.

Desc. 12 ft.

- 62.10 Rocky wash, 10 lks. wide, 26 ft. deep, course W.
- 65.29 Wash, 10 lks. wide, course SW.; asc. 94 ft. over SE. slope.
- 91.30 Spur, slopes SW.; desc. 6 ft. over NW. slope.
- 92.29 Road; bears N.80°E. and S.80°W.
- 95.29 The cor. of secs. 25, 30, 31 and 36, which is a sandstone, 29x10x7 ins. above ground, with dim notches on N. and S. faces; This cor. now refers to secs. 25 and 36 only, of R. 10 W.

In place of corner stone which is buried alongside

Set an iron post, 3 ft. long, 2 ins. diam., 28 ins. in the ground, for cor. of secs. 25 and 36 only, with brass cap mkd.

T 5 N
R 10 W
S 25
S 36

1940

from which

A juniper, 16 ins. diam., bears S.81°W., 234 lks. dist., mkd. T 5 N R 10 W S 36 B T.

A pinyon pine 12 ins. diam., bears N.37½°W., 268 lks. dist., mkd. T 5 N R 10 W S 25 B T.

Land, rolling hills.

Soil, rocky, 4th rate.

Timber, scattered juniper and pinyon pine; undergrowth, Mormon tea, sage brush and grass.

N.0°28'W., on true line along E. bdy. of sec. 25.

Over rolling hills, through scattered timber and undergrowth.

Desc. 29 ft. over NW. slope.

- 10.67 Dry wash, 30 lks. wide, course SW.
- 12.70 Low spur, slopes SW.; asc. 7 ft. over SW. slope.
- 15.67 Dry wash, 10 lks. wide, course SW.; asc. 35 ft. over SW. slope.
- 34.37 Dim road, bears E. and W.
- 38.20 Low spur, slopes NE.

8. Resurvey of a Portion of the E. Bdy. of Twp 5 N., R. 10 W.

Chains
43.40

The 1/4 sec. cor. of secs. 25 and 30, which is a sandstone, 17x15x3 ins. above ground, mkd. 1/4 on W. face. This cor. now refers to sec. 25 only.

In place of corner stone which is buried alongside

Set an iron post, 3 ft. long, 1 in. diam., 28 ins. in the ground, for 1/4 sec. cor. of sec. 25 only, with brass cap mkd.

1/4 S 25

1940

from which

A juniper, 4 ins. diam., bears S.9°W., 137 lks. dist., mkd. 1/4 S 25 B T.

A juniper, 10 ins. diam., bears N.69°W., 283 lks. dist., mkd. 1/4 S 25 B T.

A bench mark of the U.S. Geological Survey, located on top of knoll, bears N.67°30'W., 16.28 chs. dist.; a brass tablet seated in sandstone underneath a 20 ft. tripod, mkd.

US GEOLOGICAL SURVEY

ELEVATION

ABOVE  SEA

SIBASILD

1937

BENCH MARK

Thence

N.1°21'E., on true line along E. bdy. of sec. 25.

Desc. 62 ft. over NE. slope

8.85 Main road; bears N.51 1/2°W. to Chin Lee; and S.51 1/2°E. to Fort Defiance,

38.75 The cor. of secs. 19, 24, 25 and 30, which is a sandstone, 32x16x7 ins., lying on the ground. This cor. now refers to secs. 24 and 25 only, of R. 10 W., and undoubtedly occupies its original position.

In place of corner stone which is buried alongside

Set an iron post, 3 ft. long, 2 ins. diam., on bedrock, with a cross X, mkd. at base of post, and in a mound of stone, 6 ft. base, 3 ft. high, for cor. of secs. 24 and 25 only, with brass cap mkd.

T 5 N
R 10 W
S 24
S 25

1940

from which

A juniper, 10 ins. diam., bears S.59 1/2°W., 114 lks. dist., mkd. T 5 N R 10 W S 25 B T.

A pinyon pine, 8 ins. diam., bears N.40°W., 200 lks. dist., mkd. T 5 N R 10 W S 24 B T.

The sec. cor. is located 150 lks. W. of the W. rim of Canyon De Chelly, which bears N.14 1/2°W. and S.14 1/2°E.

Resurvey of a Portion of the E. Bdy. of T. 5 N., R. 10 W.

707K 4258

Chains Land, rolling hills.
Soil, sandy, 3rd rate; and rocky, 4th rate,
timber, scattered juniper and pinyon pine; undergrowth,
sage brush and scrub juniper.

The cor. of secs. 7, 12, 13 and 18 on E. bdy. of Tp.,
which is a sandstone, 25x20x3 ins. above ground, mkd.
with 4 notches on S. face, and 2 notches on N. face. This
cor. now refers to secs. 12 and 13 only, of R. 10 W.

In place of corner stone which is buried alongside

Set an iron post, 3 ft. long, 2 ins. diam., 28 ins. in the
ground, for cor. of secs. 12 and 13 only, with brass cap
mkd.



1940

raise a mound
of stone, 4½ ft. base, 3½ ft. high, W. of cor.

N. 0° 47' W., on true line along E. bdy. of sec. 12.

Over rolling hills, through scattered timber and under-
growth.

Asc. 12 ft. over slight S. slope.

10.60 Trail, bears NE. and SW. in ravine, 5 lks. wide, course
SW.

14.85 Road, bears N. 70° E. and S. 70° W.; asc. 11 ft.

15.50 Spur, slopes W.; desc. 45 ft. over N. slope.

26.27 S. rim of canyon, bears E. and W.; desc. 40 ft. over N.
slope.

27.45 Bottom of canyon, 50 lks. wide, course W.; asc. 40 ft.
over SE. slope.

28.77 N. rim of canyon, bears NE. and SW.; asc. 6 ft. over S.
slope.

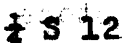
34.27 Road, bears SE. and NW.

35.77 Trail, bears NW. and SE.

39.76 The ¼ sec. cor. of secs. 7 and 12, which is an old mound,
with trench and one pit W. of cor. This is undoubtedly
the original ¼ sec. cor. This cor. now refers to sec. 12
only.

In center of mound

Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the
ground, for ¼ sec. cor. of sec. 12 only, with brass cap
mkd.



1940

raise a mound
of stone, 4 ft. base, 2½ ft. high, W. of cor.

10 01 .5 Resurvey of a Portion of the E. Bdy. of T. 5 N., R. 10 W.

Chains	Thence
	N. 5°06' W. on true line along E. bdy. of sec. 12. Asc. 33 ft. over slight S. slope.
7.99	Ravine, 5 lks. wide, course SW.
11.39	Road bears W. to Chin Lee, and E. to Lakachukai.
13.89	Trail, bears NE. and SW., asc. of 35 ft. over S. slope.
18.00	Top of ridge bears E. and W.; desc. 98 ft. over N. slope.
35.36	The witness cor. of secs. 1, 6, 7 and 12, which is a sandstone, 16x14x12 ins. above ground, dimly mkd. WC on top. This cor. now refers to witness cor. of secs. 1 and 12 only, of R. 10 W. In place of corner stone which is buried alongside Set an iron post, 3 ft. long, 2 ins. diam., on bedrock, with a cross X, mkd. at the base, and in a mound of stone, 6 ft. base, 2 1/2 ft. high, for witness cor. of secs. 1 and 12 only, with brass cap mkd. W C R 10 W R 9 W S 12 1940
	Thence North, along E. bdy. of sec. 12.
.29	S. rim of Slim Canyon about 250 ft. deep, bears E. and W.
.50	The true point for cor. of secs. 1, 6, 7 and 12, which now refers to secs. 1 and 12 only, of R. 10 W. Land, rolling hills. Soil, sandy, 3rd rate; and rocky, 4th rate. Timber, scattered juniper and pinyon pine; undergrowth, Mormon tea and grass.
9.61	N. rim of Slim Canyon, bears N. 60° W. and S. 60° E.; asc. 21 ft. over S. slope.
23.98	Wash, 20 lks. wide, course SW.; asc. 93 ft. over SE. slope.
40.73	The 1/2 sec. cor. of secs. 1 and 6, which is a sandstone, 12x7x1 in. above ground, dimly mkd. 1 on W. face, set in circle of stones. This cor. now refers to 1/2 sec. cor. of sec. 1 only In place of corner stone which is buried alongside Set an iron post, 3 ft. long, 1 in. diam., 12 ins. in the ground to bedrock, and in a mound of stone to top, for 1/2 sec. cor. of sec. 1 only, with brass cap mkd.

Resurvey of a Portion of the E. Bdy. of T. 5 N., R. 10 W.

Chains

1/4 S 1

1940

No bearing trees available.

Thence

N. 6° 52' E., on true line along E. bdy. of sec. 1.

Ase. 7 ft. over SW. slope.

1.80 Spur, slopes SW.; ase. 29 ft. over SW. slope.

25.54 Ravine, 5 lks. wide, course SW.

36.40 The closing cor. of Tps. 5 N., Rs. 9 and 10 W., which is a sandstone, 12x9x1 1/2 ins. above ground, mkd. with 6 notches on E. and W. faces.

In place of old corner stone which is buried alongside

Set an iron post, 3 ft. long, 1 in. diam., 28 ins. in the ground, for angle point of secs. 1 and 6, with brass cap mkd.

A P
T 5 N
R 10 W | R 9 W
S 1 | S 6

1940

The angle point for secs. 1 and 6 is located in old road which bears E. and W.

39.14 Intersect the 1st Standard Parallel North.

Set an iron post, 3 ft. long, 3 ins. diam., 28 ins. in the ground, for closing cor. of Ts. 5 N., Rs. 9 and 10 W., with brass cap mkd.

T 6 N R 9 W
S 31

S 1 | S 6
R 10 W | R 9 W

1940

from which

A juniper, 4 ins. diam., bears S. 4 3/4° E., 151 lks. dist., mkd. T 5 N R 9 W S 6 C C B T.

A juniper, 4 ins. diam., bears S. 83 1/2° W., 371 lks. dist., mkd. T 5 N R 10 W S 1 C C B T.

From this point the standard 1/4 sec. cor. on S. bdy. of sec. 31, T. 6 N., R. 9 W., bears S. 87° 11' E., 16.85 chs. dist.

Land, rolling hills.

Soil, sandy, 3rd rate; and rocky, 4th rate.

Timber, scattered juniper and piñon pine; undergrowth, Mormon tea and grass.

12 OF RESURVEY OF A PORTION OF THE SUBDIVISIONS OF T. 5 N., R. 10 W.

Chains From the cor. of secs. 25 and 36 on E. bdy. of the T. 5 N. S. 89°32'W., on true line bet. secs. 25 and 36.

Over rolling hills, through scattered timber and undergrowth.

Desc. 20 ft. over NW. slope.

5.02 Ravine, course SW.; asc. 6 ft. over NE. slope.

11.10 Spur, slopes SW.; desc. 64 ft. over NW. slope.

35.53 Dry wash, 20 lks. wide, course SW.; asc. 18 ft. over SE. slope.

38.72 The $\frac{1}{4}$ sec. cor., which is a sandstone, 16x14x5 ins. above ground, faintly mkd., $\frac{1}{4}$ on N. face.

In place of corner stone which is buried alongside

Set an iron post, 3 ft. long, 1 in. diam., 8 ins. in the ground to bedrock, and in a mound of stone, 6 ft. base, 2 ft. high, for $\frac{1}{4}$ sec. cor., with brass cap mkd.

$\frac{1}{4}$ S 25

 S 36
 1940

from which

A pinyon pine, 10 ins. diam., bears S. 4 $\frac{1}{2}$ °W., 219 lks. dist., mkd. $\frac{1}{4}$ S 36 B T.

A pinyon pine, 6 ins. diam., bears N. 51 $\frac{1}{2}$ °W., 61 lks. dist., mkd. $\frac{1}{4}$ S 25 B T.

Thence N. 89°35'W., on true line bet. secs. 25 and 36.

Asc. 54 ft. over SE. slope.

10.00 Spur, slopes SW.; desc. 55 ft. over SW. slope.

17.72 Small ravine, course SW.

21.77 Circle of stones where Indian Hogan stood, on line.

23.50 Head of small ravine, course SW.; asc. 12 ft. over SE. slope.

28.50 Spur, slopes SE.; desc. 64 ft. over NW. slope.

30.49 Reservoir, bears N. 145 lks. dist.

38.24 The cor. of secs. 25, 26, 35 and 36, which is a sandstone, 26x12x8 ins. above ground, faintly mkd., with 1 notch on S. and 2 notches on E. faces.

In place of corner stone which is buried alongside

Set an iron post, 3 ft. long, 2 ins. diam., on bedrock, with a cross X, mkd. at base of post, and in a mound of stone to top, for cor. of secs. 25, 26, 35 and 36, with brass cap mkd.

Resurvey of a Portion of the Subdivisions
of T. 5 N., R. 10 W.

13

4288

Chains

T 5 N R 10 W

S 26 | S 25

S 35 | S 36

1940

from which

A pinyon pine, 6 ins. diam., bears N.47 $\frac{1}{2}$ °E., 105 lks. dist., mkd. T 5 N R 10 W S 25 B T.

A juniper, 10 ins. diam., bears S.77 $\frac{1}{2}$ °E., 9 lks. dist., mkd. T 5 N R 10 W S 36 B T.

A juniper, 6 ins. diam., bears S.62 $\frac{1}{2}$ °W., 74 lks. dist., mkd. T 5 N R 10 W S 35 B T.

A pinyon pine, 6 ins. diam., bears N.85 $\frac{1}{2}$ °W., 184 lks. dist., mkd. T 5 N R 10 W S 26 B T.

Land, rolling hills.

Soil, sandy, 3rd rate; and rocky, 4th rate.

Timber, scattered juniper and pinyon pine; undergrowth, sage brush and scrub juniper.

N.1°26'W., on true line bet. secs. 25 and 26.

Over rolling hills, through scattered timber and undergrowth.

.60 Ravine, 4 lks. wide, course S.70°W.; asc. 43 ft. over SW. slope.

.70 Base of red sandstone bluff, 20 ft. high, faces S.

11.80 Spur, slopes N.60°W.; desc. 60 ft. over NW. slope.

14.33 Ravine, 6 lks. wide, course NW.

22.59 Ravine, 6 lks. wide, course NW.; asc. 7 ft. over SW. slope.

26.10 Low spur, slopes W.; desc. 16 ft. over N. slope.

29.43 Ravine, 8 lks. wide, course W.; asc. 70 ft. over SW. slope.

43.07 The $\frac{1}{4}$ sec. cor., which is a sandstone, 16x15x5 ins. above ground, mkd. $\frac{1}{4}$ on W. face.

In place of corner stone which is buried alongside

Set an iron post, 3 ft. long, 1 in. diam., 3 ins. in the ground to bedrock, and in a mound of stone, 5 ft. base, 2 $\frac{1}{2}$ ft. high, for $\frac{1}{4}$ sec. cor., with brass cap mkd.

 $\frac{1}{4}$

S 26 | S 25

1940

from which

A pinyon pine, 8 ins. diam., bears S.66 $\frac{3}{4}$ °E., 328 lks. dist., mkd. $\frac{1}{4}$ S 25 B T.

A pinyon pine, 5 ins. diam., bears N.57 $\frac{1}{2}$ °W., 370 lks. dist., mkd. $\frac{1}{4}$ S 26 B T.

Thence

N.4°14'E., on true line bet. secs. 25 and 26.

14

Resurvey of a Portion of the Subdivisions
of T. 5 N., R. 10 W.

Chains	Asc. 6 ft.
5.20	Low spur, slopes W.; desc. 13 ft. over NW. slope.
16.10	Dry wash, 10 lks. wide, course SW.; asc. 36 ft. over SW. slope.
31.00	Spur, slopes W.; desc. 18 ft. over NW. slope.
36.01	The cor. of secs. 23, 24, 25 and 26, which is a sandstone, 20x10x5 ins., set in a scattered mound of stone, mkd. 2 notches on S. and 1 notch on E. face.
	In place of corner stone which is buried alongside
	Set an iron post, 3 ft. long, 2 ins. diam., 28 ins. in the ground; for cor. of secs. 23, 24, 25 and 26, with brass cap mkd.
	<p>T 5 N R 10 W</p> <p>S 23 S 24</p> <p>S 26 S 25</p> <p>1940</p>
	from which
	A pinyon pine, 6 ins. diam., bears S. 20° E., 275 lks. dist., mkd. T 5 N R 10 W S 25 B T.
	A pinyon pine, 8 ins. diam., bears S. 42° W., 175 lks. dist., mkd. T 5 N R 10 W S 26 B T.
	A bench mark of the U.S. Geological Survey, bears N. 37° 55' W., 31.03 chs. dist.; a brass tablet seated in sandstone surface rock, mkd.
	<p>U.S. GEOLOGICAL SURVEY</p> <p>H 2</p> <p>ELEVATION</p> <p>ABOVE SEA</p> <p>5902 ft.</p> <p>1936</p> <p>BENCH-MARK</p>
	The bench mark is located alongside of Chin Lee and Fort Defiance road.
	Land, rolling hills.
	Soil, sandy, 3rd rate; and rocky, 4th rate.
	Timber, scattered juniper and pinyon pine; undergrowth, sage brush.
	N. 85° 48' E., on true line bet. secs. 24 and 25.
	Over rolling hills, through scattered timber and undergrowth.
	Asc. 65 ft. over NW. slope.
6.00	Top of long spur, slopes SW.; continue ascending.
9.70	Road, bears N. 50° W. to Chin Lee, and S. 70° E. to Fort Defiance.
27.20	Dim road, bears NW. and SE.
36.87	The 1/4 sec. cor., which is a sandstone, 17x15x5 ins. above ground, mkd. 1/4 on N. face.
	In place of corner stone which is deposited alongside

Resurvey of a Portion of the Subdivision of T. 5 N., R. 10 W. 15

Chains Set an iron post, 3 ft. long, 1 in. diam., 12 ins. in the ground to bedrock, and in a mound of stone to top, for $\frac{1}{4}$ sec. cor., with brass cap mkd.

$\frac{1}{4}$ S 24
S 25
1940

from which

A juniper, 4 ins. diam., bears N.76°E., 179 lks. dist., mkd. $\frac{1}{4}$ S 24 B T.

A pinyon pine, 8 ins. diam., bears S.21 $\frac{1}{2}$ °E., 218 lks. dist., mkd. $\frac{1}{4}$ S 25 B T.

Thence

N.89°14'E., on true line bet. secs. 24 and 25.

Asc. 64 ft. over gradual NW. slope.

33.27 Dim road, bears S.10°E. and N.10°W.

34.70 Spur, slopes NW.; desc. 26 ft. over E. slope.

39.17 The cor. of secs. 24 and 25 on E. bdy. of the Tp.

Land, rolling hills.

Soil, sandy, 3rd rate; and rocky, 4th rate.

Timber, scattered juniper and pinyon pine; undergrowth, sage brush.

From the cor. of secs. 25, 26, 35 and 36.

S.89°58'W., on true line bet. secs. 26 and 35.

Over rolling hills, through scattered timber and undergrowth.

Desc. 80 ft. over SW. slope.

37.79 Ravine, 4 lks. wide, course S.70°W.

18.54 Bottom of canyon, 20 lks. wide, course NW.; asc. 56 ft. over NE. slope.

20.79 Top of rimrocks, bears NW. and SE.

31.50 Spur, slopes N.80°W.; desc. 67 ft. over W. slope.

40.90 Proportional distance

Set an iron post, 3 ft. long, 1 in. diam., 28 ins. in the ground, for $\frac{1}{4}$ sec. cor., with brass cap mkd.

$\frac{1}{4}$ S 26
S 35
1940

from which

A pinyon pine, 12 ins. diam., bears S.14 $\frac{1}{2}$ °W., 160 lks. dist., mkd. $\frac{1}{4}$ S 35 B T.

A juniper, 6 ins. diam., bears N.64 $\frac{1}{2}$ °W., 138 lks. dist., mkd. $\frac{1}{4}$ S 26 B T.

Desc. 187 ft. over W. slope.

Resurvey of a Portion of the Subdivisions
T. 5 N., R. 10 W.

57.80	Ravine, 6 lks. wide, course S. 80° W.
58.80	Leave scattered timber, bears N. and S.
67.35	Center of sandy dry wash, 320 lks. wide; course NW.; asc. 89 ft. over E. slope.
73.50	Point of spur, slopes E.; desc. 13 ft. over SW. slope.
81.80	The cor. of secs. 26, 27, 34 and 35, which is a sandstone, 14x8x4 ins. above ground, mark visible in notch on S. edge, and witnessed by a mound of stone, W. of cor. In place of corner stone which is buried alongside Set an iron post, 3 ft. long, 2 ins. diam., 28 ins. in the ground, for cor. of secs. 26, 27, 34 and 35, with brass cap mkd. T. 5 N. R. 10 W. S 27 S 26 S 34 S 35 1940; rebuild the mound of stone, 4 ft. base, 2 ft. high, W. of cor. Land, rolling hills. Soil, sandy, 3rd rate; and rocky, 4th rate. Timber, scattered juniper and pinyon pine; undergrowth, sage brush.
	N. 0° 04' E., on true line bet. secs. 26 and 27.
	Over rolling hills, through scattered timber and undergrowth. Asc. 5 ft. over S. slope.
5.90	Top of spur, slopes E.; desc. 91 ft. over NE slope.
14.07	Center of sandy dry wash, 100 lks. wide, course N. 20° W.; asc. 63 ft. over SW. slope.
19.00	Spur, slopes W.; desc. 59 ft. over NW. slope.
22.13	Ravine, 4 lks. wide; course W.; asc. 30 ft. over SW. slope.
24.30	Spur, slopes W.; desc. 33 ft. over NW. slope.
27.20	Enter sand dunes.
28.71	Dry wash, 30 lks. wide; course W.; asc. 37 ft. over S. slope.
40.85	Proportional distance: Set an iron post, 3 ft. long, 1 in. diam., 28 ins. in the ground, for 1/4 sec. cor., with brass cap mkd. 1/4 S 27 S 26 1940 raise a mound of stone, 2 1/2 ft. base, 1 1/2 ft. high, W. of cor.

Resurvey of a Portion of the Subdivisions of T. 5 N., R. 10 W. 17

Chains	Asc. 39 ft. over SE. slope.				
57.70	Spur, slopes SW.; desc. 56 ft. over NW. slope.				
65.70	Leave sand dunes, bears E. and W.				
71.73	Dry wash, 20 lks. wide, course SW.; asc. 56 ft. over SE. slope.				
76.72	Ravine, 4 lks. wide, course SW.				
81.70	The cor. of secs. 22, 23, 26, and 27, which is a sandstone, 16x14x3 ins. above ground, mkd. with 2 notches on S. and 2 notches on E. edge.				
	In place of corner stone which is buried alongside				
	Set an iron post, 3 ft. long, 2 ins. diam., 6 ins. in the ground to bedrock, and in a mound of stone, 5 ft. base, 2½ ft. high, for cor. of secs. 22, 23, 26 and 27, with brass cap mkd.				
	<p style="text-align: center;">T 5 N. R. 10 W.</p> <table style="margin-left: auto; margin-right: auto;"> <tr> <td>S 22</td> <td>S 23</td> </tr> <tr> <td>S 27</td> <td>S 26</td> </tr> </table> <p style="text-align: center;">1940</p>	S 22	S 23	S 27	S 26
S 22	S 23				
S 27	S 26				
	No bearing trees available.				
	Land, rolling hills.				
	Soil, sandy, 3rd rate; and rocky, 4th rate.				
	Timber, scattered juniper; undergrowth, sage brush.				
	S. 88° 11' E., on true line bet. secs. 23 and 26.				
	Over rolling hills, through scattered timber and undergrowth.				
	Desc. 21 ft. over E. slope.				
4.77	Ravine, 4 lks. wide, course S.; asc. 28 ft. over W. slope.				
10.24	Old road, bears NW, and SE.				
14.00	Spur, slopes S.; desc. 21 ft. over E. slope.				
16.76	Ravine, 4 lks. wide, course S. 10° E.; asc. 22 ft. over W. slope.				
26.00	Spur, slopes S.; desc. 6 ft. over SE. slope.				
31.47	Wash, 10 lks. wide, course SE.; asc. 38 ft. over W. slope.				
37.80	Spur, slopes S.; asc. 11 ft. over NW. slope.				
40.44	Wash, 10 lks. wide, course SE.				
41.69	Proportional distance				
	Set an iron post, 3 ft. long, 1 in. diam., on bedrock, with a cross X, mkd. at base of post, and in a mound of stone, 4 ft. base, 3 ft. high, for ¼ sec. cor., with brass cap mkd.				

Resurvey of a Portion of the Subdivisions
of T. 05 N., R. 10 W.

Chains	<p>23</p> <p>S 26 1940</p> <p>No bearing trees available.</p> <p>Asc. 220 ft. over SE. slope.</p> <p>49.78 Shallow ravine, 4 lks. wide, course SW. Continue ascent over NW slope.</p> <p>83.38 The cor. of secs. 23, 24, 25, and 26.</p> <p>Land, rolling hills.</p> <p>Soil, sandy, 3rd rate; and rocky, 4th rate.</p> <p>Timber, scattered juniper and piñon pine; undergrowth, sage brush.</p> <hr/> <p>From the cor. of secs. 22, 23, 26 and 27.</p> <p>N. 0° 40' W., on true line bet. secs. 22 and 23.</p> <p>Over rolling hills, through scattered timber and undergrowth.</p> <p>Asc. 12 ft. over SE. slope.</p> <p>9.50 Spur, slopes SW.; desc. 47 ft. over NE. slope.</p> <p>14.67 Road, bears N. 7° E. and S. 7° W.</p> <p>18.22 Road, bears N. 33° W. to Chin Lee, and S. 33° E., to Fort Defiance.</p> <hr/> <p>35.90 Small ravine, 40 lks. wide, course N. 70° E.</p> <p>42.00 Low spur, slopes NE.; desc. 23 ft. over NE. slope.</p> <p>44.11 The 1/4 sec. cor., which is a sandstone, 20x14x5 ins. above ground, mkd. 1/4 on W. face.</p> <p>In place of corner stone which is buried, alongside.</p> <p>Set an iron post, 3 ft. long, 1 in. diam. 18 ins. in the ground to bedrock, and in a mound of stone, 4 1/2 ft. base, 1 1/2 ft. high, for 1/4 sec. cor., with brass cap mkd.</p> <p>S 22 S 23 1940</p> <p>No bearing trees available.</p> <p>Thence</p> <p>N. 0° 42' E., on true line bet. secs. 22 and 23.</p> <p>Desc. 36 ft. over NE. slope.</p> <p>9.45 Old trail, bears N. 75° W. and S. 75° E.</p> <p>10.21 Rocky dry wash, 20 lks. wide, 1 1/2 ft. deep, course N. 70° W.; asc. 43 ft. over sandstone bedrock along W. slope.</p> <p>23.90 Spur, slopes N. 80° W.</p> <p>27.39 Ravine, 4 lks. wide, course W.</p>
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Resurvey of a Portion of the Subdivisions of T. 5 N., R. 10 W. 19

Chains
37.78

The cor. of secs. 14, 15, 22 and 23, which is an iron post, 1 in. diam., firmly set in a mound of stone, 5 ft. base, 3 ft. high, mkd. and witnessed as described in the official record.

Land, rolling hills.
Soil, sandy, 3rd rate; and rocky, 4th rate.
Timber, scattered juniper; undergrowth, sage brush.

From the cor. of secs. 22, 23, 26 and 27.

S. 85° 34' W., on true line bet. secs. 22 and 27.

Over rolling hills, through scattered timber and undergrowth.

3.55 Dim road, bears N. 25° W. and S. 25° E.

7.40 Spur, slopes SW.; desc. 62 ft. over SW. slope.

22.59 Ravine, 4 lks. wide, course SW.

26.00 Spur, slopes SW.; desc. 55 ft. over SW. slope.

29.39 Sandy dry wash, 25 lks. wide, 1 1/2 ft. deep, course N. 30° W.; asc. 56 ft. over E. slope.

37.29 1/2 Proportional distance

Set an iron post, 3 ft. long, 1 in. diam., 28 ins. in the ground, for 1/4 sec. cor., with brass cap mkd.

1/4 S 22
S 27
1940

raise a mound of stone, 3 ft. base, 2 ft. high, N. of cor.

42.15 Spur, slopes N.; desc. 90 ft. over W. slope.

55.45 Wire fence, bears N. and S.

58.59 Bottom of shallow canyon, 5 chs. wide, 1 ft. deep, course N.; asc. 40 ft. over E. slope.

64.45 Wire fence, bears N. 20° E. and S. 20° W.

69.40 Ravine, 3 lks. wide, 6 ins. deep, course NE. to small reservoir, 25 lks. wide, 50 lks. long.

74.59 At this point determined by the method of double proportion

Set an iron post, 3 ft. long, 2 ins. diam., 28 ins. in the ground, for cor. of secs. 21, 22, 27 and 28, with brass cap mkd.

T 5 N R 10 W
S 21 S 22
S 28 S 27
1940

raise a mound of stone, 3 ft. base, 2 1/2 ft. high, W. of cor.

No bearing trees available.

Resurvey of a Portion of the Subdivisions of T. 9 N., R. 10 W.

Chains From this point the 1/4 sec. cor. of secs. 27 and 28, bears S. 7° 05' E. in 43.39 chs. dist., a sandstone, 14x12x8 ins. above ground, mkd. 1/4 on W. face, and witnessed by a mound of stone E. of cor.

In place of corner stone which is buried alongside

Set an iron post, 13 ft. long, 1 in. diam., 28 ins. in the ground, for 1/4 sec. cor., with brass cap mkd.

1/4

S. 28 | S 27

rebuild the mound of stone, 4 ft. base, 2 1/2 ft. high, W. of cor.

No bearing trees available.

From the same point the 1/4 sec. cor. of secs. 21 and 28, bears S. 85° 48' W., 37.39 chs. dist., a sandstone, 16x10x6 ins. above ground, mkd. 1/4 on N. face.

In place of corner stone which is buried alongside

Set an iron post, 3 ft. long, 1 in. diam., 28 ins. in the ground, for 1/4 sec. cor., with brass cap mkd.

1/4 S 21

S 28

1940

raise a mound of stone, 3 ft. base, 2 1/2 ft. high, N. of cor.

No bearing trees available.

Land, rolling hills. Soil, sandy, 3rd rate; and rocky, 4th rate. Timber, scattered juniper; undergrowth, sage brush.

From the cor. of secs. 21, 22, 27 and 28, N. 4° 10' W., on true line bet. secs. 21 and 22.

Over rolling hills, through scattered timber and undergrowth.

- 1.80 Low spur, slopes NW.; desc. 10 ft. over N. slope.
3.64 Ravine, 3 lks. wide, course E.; asc. 19 ft. over S. slope.
5.80 Spur, slopes E.; desc. 31 ft. over NW. slope.
12.87 Ravine, 3 lks. wide, course N. 80° W.; asc. 32 ft. over SW. slope.
16.30 Low spur, slopes W.; desc. 26 ft. over NW. slope.
27.55 Dry wash, 20 lks. wide, course NE.
28.85 Dry wash, 20 lks. wide, course SE. for 100 lks. to junction of washes.; asc. 28 ft. over SE. slope.
32.60 Road, bears E. and W.
33.75 Road, bears NE. and SW.
40.70 Low spur, slopes E.; desc. 6 ft.
43.10 Proportional distance

Resurvey of a Portion of the Subdivision
of T. 5 N., R. 10 W.

21

Chains Set an iron post, 3 ft. long, 1 in. diam., 28 ins. in the ground, for $\frac{1}{4}$ sec. cor., with brass cap mkd.

$\frac{1}{4}$
S 21 | S 22

1940

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

From this point a bench mark of the Geological Survey, V A B M 5644, bears N.73°10'W., 2737 chs. dist.

Asc. 31 ft. over broken SE. slope.

49.08 Fence cor. bears W. 154 lks. dist., from which fences bear N.6 $\frac{1}{2}$ °W. and S.45°E.

60.90 Road, bears NE. and SW.

67.00 Spur, slopes N.10°E.; desc. 57 ft. over NW. slope.

73.80 Road, bears NW. and SE.

84.67 Wash, 10 lks. wide, course N.15°E.; asc. 9 ft. over SE. slope.

86.20 The cor. of secs. 15, 16, 21 and 22, which is a small mound of stone.

In the center of the mound

Set an iron post, 3 ft. long, 2 ins. diam., 16 ins. in the ground to bedrock, and in a mound of stone to top, for cor. of secs. 15, 16, 21 and 22, with brass cap mkd.

T 5 N R 10 W
S 16 | S 15
S 21 | S 22

1940

from which


A fence cor. bears W. 307 lks. dist., from which fences bear W. and N.6 $\frac{1}{2}$ °E.

From this point a bench mark of the US Geological Survey on front porch of Park Service Headquarters Bldg., bears S.55°08'E., 27.44 chs. dist.; a brass tablet seated in concrete, mkd.

US GEOLOGICAL SURVEY

H 1

ELEVATION

ABOVE  SEA

5538 FEET

1936

BENCH MARK

Land, rolling hills.

Soil, sandy, 3rd rate; and rocky, 4th rate.

Timber, scattered juniper; undergrowth, sage brush.

Chains	N.88°41'E., on true line bet. secs. 15 and 22. Over rolling land, through scattered undergrowth. Desc. 15 ft. over E. slope.
1.08	Telephone line, bears N.29°W. and S.29°E. in ravine, course N.10°W.; asc. 44 ft. over W. slope.
4.77	A point 3 lks. S. of a brass tablet seated in sandstone, mkd.
	U S D I S T A P N P S
5.00	Spur, slopes N.10°W.; desc. 66 ft. over E. slope.
10.63	Road, bears N.1½°W. to Chin Lee, and S.12½°E. to Fort Defiance.
10.88	Wire fence, bears N.1½°W. and S.12½°E.
11.93	Center of sandy wash, 60 lks. wide, 1½ ft. deep, course N.20°E.; continue over level land.
27.40	Wash, 60 lks. wide, 10 ft. deep, course N.20°E.
30.85	Wire fence, bears N.13½°E. and S.13½°W.
31.86	Road, bears N.13½°E. and S.13½°W.
32.40	Wire fence, bears N. 13½°E. and S.13½°W.
40.26	Wire fence, bears N. and S.
40.52	The ¼ sec. cor., which is an iron post, 1 in. diam., 6 ins. above ground, firmly set, mkd. and witnessed as described in the official record.
	Thence N.88°49'E., on true line bet. secs. 15 and 22.
6.00	Leave level land; asc. 33 ft. over SW. slope.,
11.58	Wire fence, bears N. and S. on top of spur, slopes SW.; desc. 17 ft. over SE. slope.
12.28	Road, bears NE. and SW.
13.08	Top of sandstone rim, bears N.80°E. and S.80°W.
21.48	Two log Hogans, bear N. 4 chs. dist.
23.07	Wire fence, bears N. and S.
24.75	Wire fence, bears N.20°E. and S.20°W.
25.28	Bottom of shallow canyon, course N.; asc. 85 ft.
39.48	Top of sandstone rim, 60 ft. high, bears N. and S.; asc. 35 ft. over sandstone surface rock.
40.04	The cor. of secs. 14,15,22 and 23. Land, rolling and level. Soil, sandy, 3rd rate; and rocky, 4th rate. Timber, scattered cottonwood along washes; undergrowth, sage brush.

Resurvey of a Portion of the Subdivision
of T. 5 N., R. 10 W.

Chains	N.1°12'E., on true line bet. secs. 14 and 15. Over rolling land, through scattered undergrowth. Asc. 77 ft. over SW. slope.
21.29	Drain, 5 lks. wide, 14 ins. deep, course SW.
31.20	S. rim of Canyon De Chelly, bears N.70°W. and E.; desc. 158 ft. over N. slope.
31.46	Foot of bluff.
39.08	Bottom of Canyon De Chelly, course W.
39.57	Wire fence, bears E. and W.
40.08	Foot of bluff, bears E. and W.; asc. 158 ft. over S. slope.
41.15	N. rim of Canyon De Chelly, bears E. and W.; asc. 17 ft.
42.64	The $\frac{1}{4}$ sec. cor., which is a sandstone, 18x12x3 ins. above ground, mkd. $\frac{1}{4}$ on W. face. In place of corner stone which is buried alongside Set an iron post, 3 ft. long, 1 in. diam., on bedrock, with a cross X, mkd. at base of post, and in a mound of stone, 5 ft. base, 2 $\frac{1}{2}$ ft. high, for $\frac{1}{4}$ sec. cor., with brass cap mkd. $\frac{1}{4}$ S 15 S 14 1940
	Thence N.3°17'E., on true line bet. secs. 14 and 15. Asc. 91 ft. over SW. slope.
22.26	Spur, slopes W.; desc. 46 ft. over NW. slope.
34.25	Wash, 15 lks. wide, 6 ins. deep, course W.; asc. 6 ft. over S. slope.
35.86	The cor. of secs. 10, 11, 14 and 15, which is a sandstone, 12x11x2 ins. set in a small mound of stone, mkd. with 2 notches on S. and 3 notches on E. edge. In place of corner stone which is buried alongside Set an iron post, 3 ft. long, 2 ins. diam., on bedrock, with a cross X, mkd. at base of post, and in a mound of stone, 6 ft. base, 30 ins. high, for cor. of secs. 10, 11, 14 and 15, with brass cap mkd. T 5 N R 10 W S 10 S 11 S 15 S 14 1940


Resurvey of a Portion of the Subdivisions
of T. 5 N., R. 10 W.

Chains From this point a bench mark of the U.S. Geological Survey, bears N. 23° 31' W., 20.17 chs. dist.; a brass tablet seated in concrete, with cap mkd.

US GEOLOGICAL SURVEY

H 12

ELEVATION

ABOVE  SEA

5770

BENCH MARK

1936

Land, rolling hills.

Soil, sandy, 3rd rate; and rocky, 4th rate.

No timber; undergrowth, sage brush.

From the cor. of secs. 15, 16, 21 and 22.

N. 6° 32' E., on true line bet. secs. 15 and 16.

Over rolling land, through scattered undergrowth.

Desc. 42 ft. over NE. slope.

3.06 Wash, 15 lks. wide, 1 ft. deep, course NW.; asc. 23 ft. over SW. slope.

8.54 Point of spur, slopes W.; desc. 57 ft. over NW. slope.

12.14 Chin Lee and Fort Defiance road, bears E. and W. Desc. 65 ft. over NW. slope.

12.73 Left bank of Canyon De Chelly river, course W.; continue over bed of river.

16.35 Edge of stream on left bank of river, 20 lks. wide, 4 ins. deep, course W.

27.05 Edge of stream on right bank of river, 30 lks. wide, 10 ins. deep, course W.

27.35 Right bank of river.; asc. 29 ft. over S. slope.

28.73 Top of rim, bears E. and W.; asc. 55 ft. over S. slope.

37.50 Spur, slopes SW.

39.24 The $\frac{1}{4}$ sec. cor., which is a hole dug in the center of a mound of stone, with a sandstone, 16x14x3 ins. lying alongside, mkd. $\frac{1}{4}$.

In center of stone mound with original stone buried alongside

Set an iron post, 3 ft. long, 1 in. diam., 10 ins. in the ground to bedrock, and in a mound of stone, 5 ft. base, 2 ft. high, for $\frac{1}{4}$ sec. cor., with brass cap mkd.

$\frac{1}{4}$

S 16 | S 15

1940

Resurvey of a Portion of the Subdivision
of T. 5 N., R. 10 W.

25

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Chains	Thence
	N.0°45'W., on true line bet. secs. 15 and 16. Desc. 57 ft. over NW. slope.
4.00	Ravine, 10 lks. wide, course SW.; asc. 7 ft.
5.90	Spur, slopes SW.; desc. 21 ft. over NW. slope.
10.37	Dry wash, 50 lks. wide, course SW.; asc. 85 ft. over SE. slope.
26.50	Spur, slopes SW.; desc. 21 ft. over NW. slope.
33.23	Drain, course SW.; asc. 13 ft. over S. slope.
38.40	Spur, slopes W.; desc. 17 ft.
41.16	The cor. of secs. 9, 10, 15, and 16, which is an iron post, 2 ins. diam., 8 ins. above ground, firmly set, mkd. and witnessed as described in the official record. Land, rolling hills. Soil, sandy, 3rd rate; and rocky, 4th rate. No timber; undergrowth, sage brush.
	N.89°55'E., on true line bet. secs. 10 and 15. Over rolling hills, through scattered undergrowth. Asc. 76 ft. over NW. slope.
5.84	Road, bears S.60°W. and N.60°E. on top of spur, slopes S.60°W.
7.57	Ravine, 15 lks. wide, course S.
9.40	Low spur, slopes SE.; desc. 27 ft. over SE. slope.
12.65	Wash, 20 lks. wide, course SW.; asc. 15 ft. over W. slope.
18.20	Trail, bears NE. and SW. on top of spur, slopes SW.; desc. 55 ft. over SE. slope.
24.67	Wash, 30 lks. wide, course SW.; asc. 93 ft. over NW. slope.
35.50	Spur, slopes SW.; desc. 34 ft. over SE. slope.
37.27	Head of ravine, course SE.; desc. 26 ft. over SE. slope.
39.56	The $\frac{1}{4}$ sec. cor., which is a sandstone, 17x15x3 ins. above ground, mkd. $\frac{1}{4}$ on N. face. In place of corner stone which is buried alongside Set an iron post, 3 ft. long, 1 in. diam., 28 ins. in the ground, for $\frac{1}{4}$ sec. cor., with brass cap mkd. $\frac{1}{4}$ $\frac{S\ 10}{S\ 15}$ 1940 raise a mound of stone, 5 ft. base, 2 ft. high, N. of cor.

Chains	Thence
	N.89°58'E., on true line bet. secs. 10 and 15.
.60	Ravine, 10 lks. wide, course S.; asc. 7 ft.
2.80	Spur, slopes S.; desc. 21 ft. over SE. slope.
4.37	Wash, 20 lks. wide, course SW.; asc. 51 ft. over SW. slope.
11.30	Trail, bears NE. and SW.
15.38	Old road, bears N. and S.
17.77	Road, bears N.30°E. and S.30°W. to Chin Lee.
18.87	Old road, bears N.10°E. and S.10°W.
20.80	Spur, slopes S.20°W.; desc. 42 ft. over SE. slope.
23.27	Trail, bears N.20°E. and S.20°W.
25.07	Top of rimrocks, bears N.10°E. and S.10°W.
28.05	Dry wash, 20 lks. wide, course S.; asc. 40 ft. over SW. slope.
38.06	Top of rimrocks, bears NE. and SW.
39.92	The cor. of secs. 10, 11, 14 and 15. Land, rolling hills. Soil, sandy, 3rd rate; and rocky, 4th rate. No timber; undergrowth, sage brush.
	N.88°30'E., on true line bet. secs. 11 and 14. Over rolling hills, through scattered undergrowth. Asc. 52 ft. over W. slope.
13.27	Wash, 10 lks. wide, 6 ins. deep, course NW.; asc. 63 ft. over NW. slope.
26.20	Top of ascent; desc. 73 ft.
32.71	Set an iron post, 3 ft. long, 1 in. diam., 6 ins. in the ground to bedrock, with a cross X, mkd. at base of post, and in a mound of stone, 4 ft. base, 2½ ft. high, for witness ¼ sec. cor., with brass cap mkd. ¼ <u>S 11</u> WC S 14 1940
33.12	W. rim of Cottonwood Canyon, bears N. and S.; desc. 184 ft. over E. slope.
39.12	Bottom of canyon, course SE.; asc. 217 ft. over NW. slope.
41.71	Proportional distance, the true point for ¼ sec. cor., falls in bottom of canyon, a place unsuitable for permanent cor.
53.83	E. rim of Cottonwood Canyon, bears N.29°E. and S.67°W.; asc. 30 ft. over SW. slope through scattered timber.

Resurvey of a Portion of the Subdivision
of T. 5 N., R. 10 W.

27

BOOK 4288

Chains	
59.20	Spur, slopes S.; desc. 21 ft. over SE. slope.
69.82	Wash, 30 lks. wide, course S.70°W.; asc. 90 ft. over SW. slope.
83.42	The cor. of secs. 11, 12, 13 and 14, which is a sandstone, 16x12x1½ ins. above ground, dimly mkd. 4 notches on S. and 1 notch on E. face. In place of corner stone which is buried alongside. Set an iron post, 3 ft. long, 2 ins. diam., 27 ins. in the ground, with broken glass buried at the base; for cor. of secs. 11, 12, 13 and 14, with brass cap mkd. <div style="text-align: center;"> T 5 N R 10 W S 11 S 12 S 14 S 13 1940 </div> No bearing trees available. Land, rolling hills. Soil, sandy, 3rd rate; and rocky, 4th rate. Timber, scattered juniper; undergrowth, sage brush.
	N. 86°56'E., on true line bet. secs. 12 and 13. Over rolling hills, through scattered timber and undergrowth. Asc. 57 ft. over NW. slope.
1.80	Trail, bears NE. and SW.
5.50	Trail, bears NE. and SW.
11.40	Ravine, 10 lks. wide, course N.
17.50	Ravine, 10 lks. wide, course NW.
21.00	Rocky spur, slopes NW.; desc. 22 ft. over NE. slope.
21.98	Ravine, 10 lks. wide, course N.; asc. 17 ft. over NW. slope.
25.98	Rocky spur, slopes SW.
30.08	Top of rimrocks, bears N. and SW.
35.73	Wash, 20 lks. wide, course SW.
38.71	The ¼ sec. cor., which is a sandstone, 17x11x3 ins. above ground, dimly mkd. ¼ on N. face. In place of corner stone which is buried alongside Set an iron post, 3 ft. long, 1 in. diam., 6 ins. in the ground to bedrock, with a cross X, mkd. at base of post, and in a mound of stone, 5 ft. base, 2½ ft. high, for ¼ sec. cor., with brass cap mkd. <div style="text-align: center;"> ¼ <u>S 12</u> S 13 1940 </div> No bearing trees available.

Resurvey of a Portion of the Subdivisions
of T. 5 N., R. 10 W.

Chains	Thence N. 89° 28' E., on true line bet. secs. 12 and 13. Asc. 55 ft. over W. slope.
11.14	Head of ravine, 15 lks. wide, course SW.
19.44	Trail, bears NE. and SW.
20.30	Spur, slopes S.; desc. 21 ft. over gradual SE. slope.
26.04	Wash, 15 lks. wide, course SW.; asc. 34 ft. over gradual NW. slope.
41.32	The cor. of secs. 12 and 13 on E. bdy. of the Tp. Land, rolling hills. Soil, sandy, 3rd rate; and rocky, 4th rate. Timber, scattered juniper; undergrowth, sage brush.
From the cor. of secs. 11, 12, 13 and 14. N. 2° 20' W., on true line bet. secs. 11 and 12. Over rolling hills, through scattered timber and undergrowth.	
	Desc. 22 ft. over NW. slope.
4.46	Ravine, 5 lks. wide, course NW.
10.34	Wash, 30 lks. wide, course SW.; asc. 43 ft. over SE. slope.
21.30	Spur, slopes SW.; desc. 37 ft. over NW. slope.
30.92	Wash, 30 lks. wide, course SW.; asc. 61 ft. over SE. slope.
37.22	The 1/4 sec. cor., which is a sandstone, 18x14x2 ins. above ground, dimly mkd. 1/4 on W. face. In place of corner stone which is buried alongside. Set an iron post, 5 ft. long, 1 in. diam., 6 ins. in the ground to bedrock, with a cross X, mkd. at base of post, and in a mound of stone, 5 ft. base, 2 1/2 ft. high, for 1/4 sec. cor., with brass cap mkd. S 11 S 12 1940
	No bearing trees available.
	Thence N. 1° 02' E., on true line bet. secs. 11 and 12. Asc. 6 ft.
4.50	Spur, slopes SW.
24.91	Wash, 20 lks. wide, course SW.; asc. 39 ft. along W. slope.
32.91	Dirt road, bears W. to Chin Lee and E. to Lukathukai.
33.41	Ravine, 5 lks. wide, course W.

Resurvey of a Portion of the Subdivision
of T. 5 N., R. 10 W.

29

Chains
40.52

The cor. of secs. 1, 2, 11 and 12, which is a sandstone, 13x8x2 ins. above ground, dimly mkd. 5 notches on S. and 1 notch on E. edge.

In place of corner stone which is buried alongside

Set an iron post, 3 ft. long, 2 ins. diam., 28 ins. in the ground, for cor. of secs. 1, 2, 11 and 12, with brass cap mkd.

T 5 N R 10 W
S 2 S 1
S 11 S 12
1940

from which

A juniper, 3 ins. diam., bears N.32 $\frac{1}{2}$ °E., 37 lks. dist., mkd. S 1 B T.

A juniper, 3 ins. diam., bears S.64 $\frac{1}{4}$ °E., 86 lks. dist., mkd. S 12 B T.

A juniper, 5 ins. diam., bears S.16°W., 298 lks. dist., mkd. S 11 B T.

A juniper, 2 ins. diam., bears N.67 $\frac{3}{4}$ °W., 45 lks. dist., mkd. S 2 B T.

Land, rolling hills.

Soil, sandy, 3rd rate; and rocky, 4th rate.

Timber, scattered juniper; undergrowth, Mormon tea and grass.

S.89°50'E., on true line bet. secs. 1 and 12, by traverse.

38.54 $\frac{1}{2}$ Proportional distance the true point for $\frac{1}{4}$ sec. cor. determined by the following traverse, falls on S. slope of bluffs which are about 1000 ft. high, on N. side of Slim Canyon. For WC see traverse.

77.09 The true point for cor. of secs. 1 and 12 on E. bdy. of the Tp.

From the cor. of secs. 1, 2, 11 and 12, by traverse as follows over rolling hills, through scattered timber and undergrowth.; asc. 53 ft. over gradual NW. slope.

East, 21.44 chs.

At 17.20 chs. a point on spur, slopes SW. From this point a brass tablet seated in sandstone, bears N.17°11'W., 2.47 chs. dist., mkd.

US GEOLOGICAL SURVEY

SLIM

1937

From the same point a bench mark of the Geological Survey, bears S.4°01'W., 8.28 chs. dist.; a brass tablet seated in sandstone, mkd.

Resurvey of a Portion of the Subdivisions of T. 5 N., R. 10 W.

US GEOLOGICAL SURVEY

ELEVATION

ABOVE SEA

6019 FEET

H-13

1936

BENCH MARK

At end of course, center of cliff dwelling, bears N. 72° 55' E.

Thence along S. rim of Slim Canyon about 1000 ft. deep.

S. 64° 30' E., 11.90 chs. At end of course center of same cliff dwelling, bears N. 12° 11' E.

S. 79° 30' E., 6.10 chs. At end of course designated point A, a mound of stone, 2 1/2 ft. base, 1 ft. high, on top of rim.

N. 14° 35' E., 1.46 chs. At this point, 4.71 chs. S. of the true point for 1/4 sec. cor., set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground, for witness 1/4 sec. cor., with brass cap mkd.

WC

1/4 S 1

812

1940

raise a mound of stone, 3 ft. base, 2 1/2 ft. high, N. of cor.

The witness 1/4 sec. cor. is located on a small rocky point, 42 ft. below S. rim of Slim Canyon.

Thence from point A,

S. 79° 30' E., 24.90 chs. At 16.19 chs. W. rim of side canyon, bears N. and S. At 22.27 chs. approx. bottom of side canyon, 30 lks. wide, course

N. At 24.20 chs, E. rim of side canyon, bears N. and S.

N. 12° 15' E., 7.50 chs. At end of course window of cliff dwelling, bears N. 8° W. Portion between rooms, bears N. 6° 10' E.

N. 58° 15' E., 8.20 chs. At end of course window of same cliff dwelling, bears N. 54° 30' W. Portion between rooms, bears N. 48° 17' W., with circular pit about 15 lks. E.

S. 65° 00' E., 6.68 chs. N. 8° 35' W., 1.24 chs.

At end of course the witness cor. of secs. 1 and 12 on E. bdy. of the Tp.

North, .50 chs. To true point for cor. of secs. 1 and 12 on E. bdy. of the Tp.

Resurvey of a Portion of the Subdivision
of T. 5 N., R. 10 W.

31

1940

Chains	Land, rolling and deep canyons. Soil, rocky, 4th rate. Timber, scattered juniper; undergrowth, Mormon tea.
	From the cor. of secs. 1, 2, 11 and 12. N. 6° 32' E., on true line bet. secs. 1 and 2. Over rolling land, through scattered timber and undergrowth. Desc. 89 ft. over NW. slope.
16.59	S. rim of Slim Canyon, 280 ft. deep, bears E. and NW. E. end of cliff dwelling, bears N. 23° 42' W., 14.50 chs. dist. Round one, bears N. 24° 12' W., 16.59 chs. dist. W. end of cliff dwelling, bears N. 24° 58' W., 16.80 chs. dist.
24.08	N. rim of Slim Canyon, bears N. 60° W. and S. 60° E.; asc. 43 ft.
36.13	Wash, 20 lks. wide, course W.
41.21	The $\frac{1}{4}$ sec. cor., which is a sandstone, 20x15x5 ins. above ground, mkd. $\frac{1}{4}$ on W. face. In place of corner stone which is buried alongside Set an iron post, 3 ft. long, 1 in. diam., on bedrock, with a cross X, mkd. at base of post, and in a mound of stone, 5 ft. base, 2 $\frac{1}{2}$ ft. high, for $\frac{1}{4}$ sec. cor., with brass cap mkd. $\frac{1}{4}$ S 2 S 1 1940 No bearing trees available. Thence N. 7° 41' W., on true line bet. secs. 1 and 2. Desc. 17 ft.
2.19	S. rim of canyon, 50 ft. deep, bears NE. and SW.
5.59	N. rim of same canyon, bears NE. and SW.; asc. 118 ft. over SE. slope.
11.13	Rim of spur, bears NE. and SW.
13.24	Stone corral, bears E. 245 lks. dist., on top of spur, slopes SW.; desc. 56 ft. over NW. slope.
26.66	Wash, 15 lks. wide, course SW.; asc. 56 ft. over SE. slope.
30.00	Spur, slopes SW.; desc. 10 ft. over NW. slope.
31.64	Old stone corral, bears E. 480 lks. dist., on top of spur, slopes W.; desc. 42 ft. over NW. slope.

Resurvey of a Portion of the Subdivision of T. 6 N., R. 10 W.

Chains 39.98

Intersect the 1st Standard Parallel, North. Set an iron post, 3 ft. long, 2 ins. diam., 27 ins. in the ground, for closing cor. of secs. 1 and 2, with brass cap mkd.

T 6 N R 10 W S 36

S 2 T 5 N R 10 W C C

1940 from which

A juniper, 2 1/2 ins. diam., bears S. 22° E., 33 lks. dist., mkd. B T.

A pinyon pine, 6 ins. diam., bears S. 26 1/2° W., 78 lks. dist., mkd. T 5 N R 10 W S 2 C C B T.

From this point the standard 1/4 sec. cor. of sec. 36, T. 6 N., R. 10 W., bears S. 88° 53' E., 19.29 chs. dist.

From the same point the original closing cor. of secs. 1 and 2, bears N. 7° 41' W., 2.07 chs. dist.; a sandstone, 15x10x3 ins. above ground, mkd. with 6 notches on S. face. This cor. no longer serves as a closing cor.

In place of corner stone which is buried alongside

Set an iron post, 3 ft. long, 1 in. diam., 6 ins. in the ground to bedrock, with a cross X, mkd. at base of post, and in a mound of stone 5 ft. base, 2 1/2 ft. high, for angle point, with brass cap mkd.

AP S 36 T 6 N R 10 W 1940

Land, rolling hills. Soil, rocky, 4th rate. Timber, scattered juniper and pinyon pine; undergrowth, Mormon tea.

At midpoint on the N. hdy. of sec. 1

Set an iron post, 3 ft. long, 1 in. diam., 28 ins. in the ground, for 1/4 sec. cor. of sec. 1, with brass cap mkd.

1/4 S 1 1940 from which

A juniper, 3 ins. diam., bears S. 62 1/2° E., 220 lks. dist., mkd. 1/4 S 1 B T.

A juniper, 2 1/2 ins. diam., bears S. 14 1/2° W., 454 lks. dist., mkd. 1/4 S 1 B T.

From this point the standard cor. of Ts. 6 N., Rs. 9 and 10 W., bears N. 89° 27' E., 18.41 chs. dist.

Resurvey of a Portion of the Subdivision
of T. 5 N., R. 10 W.

33

Chains	From the cor. of secs. 10, 11, 14 and 15.
	N.0°15'E., on true line bet. secs. 10 and 11.
	Over rolling hills, through scattered timber and undergrowth.
	Desc. 11 ft. over NW. slope.
1.29	Wash, 20 lks. wide, course SW.; asc. 17 ft. over SE. slope.
5.00	Spur, slopes SW.; desc. 7 ft.
6.50	Ravine, 10 lks. wide, course W.; asc. 44 ft. over SE. slope.
19.50	Spur, slopes SW.; desc. 11 ft.
20.99	Trail, bears NE, and SW.
21.89	Road, bears NE. and SW. to Chin Lee.
24.99	Old road, bears E. and W.
26.49	Ravine, 5 lks. wide, course SW.; asc. 11 ft. over SW. slope.
32.69	Road, bears NW. and SE. on top of spur, slopes NW.; desc. 58 ft. over NE. slope.
37.48	Trail, bears NE. and SW.
39.88	Wash, 10 lks. wide, course N.10°W.
40.02	The $\frac{1}{4}$ sec. cor., which is a sandstone, 18x8x6 ins. set in scattered mound of stone, dimly mkd. $\frac{1}{4}$ on W. face.
	In place of corner stone which is buried alongside
	Set an iron post, 3 ft. long, 1 in. diam., 28 ins. in the ground, for $\frac{1}{4}$ sec. cor., with brass cap mkd.
	S 10 S 11
	1940
	from which
	A pinyon pine, 6 ins. diam., bears S.47 $\frac{1}{2}$ °E., 79 lks. dist., mkd. $\frac{1}{4}$ S 11 B T.
	A juniper, 3 ins. diam., bears S.27 $\frac{1}{2}$ °W., 34 lks. dist., mkd. $\frac{1}{4}$ S 10 B T.
	Thence
	N.0°30'E., on true line bet. secs. 10 and 11.
2.70	Same wash, course NW.; asc. 14 ft. over SW. slope.
8.00	Spur, slopes NW.; desc. 36 ft. over NW. slope.
16.98	Wash, 20 lks. wide, course SW.; asc. 74 ft. over SE. slope.
28.91	Top of rim, bears NE. and SW.; desc. 12 ft. over bare sandstone.
41.90	The cor. of secs. 2, 3, 10 and 11, which is a sandstone,

Resurvey of a Portion of the Subdivision of T105 N., R. 10 W.

Chains 18x14x4 ins. above ground, mks. visible on surface.

In place of corner stone which is buried alongside.

Set an iron post, 3 ft. long, 2 ins. diam., 3 ins. in the ground to bedrock, with a cross X, mkd. at base of post, and in a mound of stone, 5 ft. base, 30 ins. high, for cor. of secs. 2, 3, 10 and 11, with brass cap mkd.

T50N R10W
 S 3 S 2
 S 10 S 11
 1940

No bearing trees available.

Land, rolling.
 Soil, rocky, 4th rate.
 Timber, scattered juniper and pinyon pine; undergrowth, Mormon tea.

S. 88°35'E., on true line bet. secs. 2 and 11.

Over rolling hills, through scattered timber and undergrowth.

Asc. 95 ft. over gradual NW. slope.

.80 Wash, 15 lks. wide, 1 ft. deep, course NW.

33.28 W. rim of Slim Canyon, 183 ft. deep, bears N. and S.; desc. E. slope.

36.50 Foot of bluff.

37.20 Wash, 20 lks. wide, course N. 20° E.

38.70 Foot of bluff in cove; asc. 183 ft. over NW. slope.

40.99 True point for 1/4 sec. cor., falls on face of bluff.

48.17 E. rim of Slim Canyon, bears NE. and S.; asc. 22 ft. over NW. slope.

48.24 Set an iron post, 3 ft. long, 1 in. diam., on bedrock, with a cross X, mkd. at base of post, and in a mound of stone, 5 ft. base, 2 1/2 ft. high, for witness 1/4 sec. cor., with grass cap mkd.

W. 1/4 S 2
 C. 1/4 S 11
 1940

No bearing trees available.

Asc. 106 ft. over W. slope.

56.67 Wash, 15 lks. wide, course NW.

81.98 The cor. of secs. 1, 2, 11 and 12.

Land, rolling.
 Soil, rocky, 4th rate.
 Timber, scattered juniper and pinyon; undergrowth, Mormon tea.

Resurvey of a Portion of the Subdivision
of T. 5 N., R. 10 W.

35

Chains	From the cor. of secs. 2,3,10 and 11. N.4°26'E., on true line bet. secs. 2 and 3. Over rolling land, through scattered timber and undergrowth.
.35	Wash, 15 lks. wide, 1 ft. deep, course W.; asc. 10 ft. over S. slope.
1.80	Spur, slopes W.; desc. 11 ft.
20.69	S. rim of Slim Canyon, bears E. and W.; desc. 152 ft. over N. slope.
26.38	Slim Canyon Creek, 100 lks. wide, 6 ft. deep, course W.; asc. 104 ft. over S. slope.
29.38	N. rim of Slim Canyon, bears E. and W.
34.10	Spur, slopes SW.; desc. 9 ft.
37.09	S. rim of canyon, bears NE. and SW.; desc. 150 ft. over N. slope.
39.89	N. rim of canyon, ^{bears} NE. and SW.
40.93	The $\frac{1}{4}$ sec. cor., which is a sandstone, 14x12x5 ins. above ground in old mound of stone, mkd. $\frac{1}{4}$ on W. face. In place of corner stone which is buried alongside Set an iron post, 3 ft. long, 1 in. diam., on bedrock, with a cross X, mkd. at base of post, and in a mound of stone, 5 ft. base, 2 $\frac{1}{2}$ ft. high, for $\frac{1}{4}$ sec. cor., with brass cap mkd. $\frac{1}{4}$ S 3 S 2 1940
	No bearing trees available.
	Thence
	N.1°53'E., on true line bet. secs. 2 and 3. Asc. 155 ft. over almost barren rock.
16.43	Rim of mesa, bears NE. and SW.; desc. 25 ft. over slight NW. slope.
24.83	Road, bears NE. and SW.
26.43	Trail on top of ridge, bears E. and W.
29.83	Wash, 10 lks. wide, 1 ft. deep, course W.
31.03	Road, bears E. and W.
32.73	Wash, 10 lks. wide, 1 ft. deep, course W.
33.43	Road, bears E. and W.
37.73	Wash, 20 lks. wide, 3 ft. deep, course W.
39.30	Intersect the 1st Standard Parallel North. Set an iron post, 3 ft. long, 2 ins. diam., 28 ins. in the ground, for closing cor. of secs. 2 and 3, with brass cap mkd.

Resurvey of a Portion of the Subdivisions
of T. 5 N., R. 10 W.

Chains

T. 6 N. R. 10 W. sec. 35

S 3 S 2

1940

from which

A juniper, 4 ins. diam., bears S. 26 1/2° E., 184 lks. dist., mkd. T 5 N R 10 W S 2 C C B T.

A juniper, 2 1/2 ins. diam., bears S. 20 1/2° W., 128 lks. dist., mkd. T 5 N R 10 W S 3 C C B T.

From this point the standard 1/4 sec. cor. of sec. 35, T. 6 N., R. 10 W., bears S. 88° 53' E., 15.47 chs. dist.

From the same point the original closing cor. of secs. 2 and 3, bears N. 1° 53' E., 1.72 chs. dist.; a sandstone, 15x11x2 ins. above ground, notches very dim. This cor. no longer serves as a closing cor.

In place of corner stone which is buried alongside

Set an iron post, 3 ft. long, 1 in. diam., on bedrock, with a cross X, mkd. at base of post, and in a mound of stone, 5 ft. base, 2 1/2 ft. high, for angle point, with brass cap mkd.

S 35
T 6 N | R 10 W

1940

Land, rolling hills;
Soil, rocky, 4th rate.
Timber, scattered juniper; undergrowth, Mormon tea.

At midpoint on the north bdy. of sec. 2.

Set an iron post, 3 ft. long, 1 in. diam., 16 ins. in the ground to bedrock, and in a mound of stone to top, for 1/4 sec. cor., with brass cap mkd.

1/4 S 2

1940

from which

A juniper, 3 ins. diam., bears S. 21 1/2° E., 167 lks. dist., mkd. 1/4 S 2 B T.

A juniper, 2 ins. diam., bears S. 1 1/2° W., 88 lks. dist., mkd. 1/4 S 2 B T.

From this point the standard cor. of secs. 35 and 36, T. 6 N., R. 10 W., bears S. 88° 53' E., 17.58 chs. dist.

Resurvey of a Portion of the Subdivisions
of T. 5 N., R. 10 W.

37

Chains	From the cor. of secs. 9, 10, 15 and 16.
	N. 0° 45' E., on true line bet. secs. 9 and 10.
	Over rolling land, through scattered timber and undergrowth.
	Asc. 10 ft.
4.50	Spur, slopes SW.; desc. 10 ft. over NW. slope.
8.90	Wash, 10 lks. wide, 6 ins. deep, course W.; asc. 16 ft. over SW. slope.
10.25	Trail, bears E. and W.
13.30	Spur, slopes SW.; desc. 50 ft. over NW. slope.
19.93	Wash, 10 lks. wide, 10 ins. deep, course SW.; asc. 35 ft. over SE. slope.
27.90	Spur, slopes SW.; desc. 12 ft. over NW. slope.
29.71	Ravine, 5 lks. wide, 6 ins. deep, course SW.; asc. 6 ft.
37.98	Spur, slopes SW.
40.88	The $\frac{1}{4}$ sec. cor., which is a sandstone, 18x12x1 $\frac{1}{2}$ ins. above ground, mkd. $\frac{1}{4}$ on W. face.
	In place of corner stone which is buried alongside
	Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground, for $\frac{1}{4}$ sec. cor., with brass cap mkd.
	$\frac{1}{4}$
	S 9 S 10
	1940
	raise a mound of stone, 3 ft. base, 2 ft. high, W. of cor.
	Thence
	N. 0° 39' W., on true line bet. secs. 9 and 10.
	Asc. 17 ft. over SE. slope.
.97	Trail, bears NE. and SW.
1.10	Ravine, 5 lks. wide, 5 ins. deep, course SW.
6.70	Road, bears NE. and SW.
10.00	Ridge, bears NW. and SE.
17.90	Road, bears SE. and NW.
20.00	Trail, bears NE. and SW.; desc. 72 ft. over NE. slope.
29.90	Trail, bears E. and W.
33.94	Road, bears E. and W.
35.04	Wash, 15 lks. wide, 10 ins. deep, course NW.
37.89	The cor. of secs. 3, 4, 9 and 10, which is a sandstone, 14x10x2 ins. above ground, mkd. 5 notches on N. face, and witnessed by a scattered mound of stone W. of cor.

Resurvey of a Portion of the Subdivisions
of T. 5 N., R. 10 W.

Chains	<p>In place of corner stone which is buried alongside</p> <p>Set an iron post, 3 ft. long, 2 in. diam., on bedrock, with a cross X, mkd. at base of post, and in a mound of stone, 5 ft. base, 2½ ft. high, for cor. of secs. 3, 4, 9 and 10, with brass cap mkd.</p> <p style="text-align: center;">T 5 N R 10 W S 4 S 3 S 9 S 10 1940</p> <p>Land, rolling. Soil, rocky, 4th rate. Timber, scattered juniper; undergrowth, Mormon tea.</p>
41.75	<p>N. 87° 24' E., on true line bet. secs. 3 and 10.</p> <p>Over rolling hills, through scattered timber and undergrowth.</p> <p>Asc. 15 ft. over gradual NW. slope.</p> <p>4.60 Rim of canyon, bears SE. and NW.</p> <p>7.70 Same rim, bears NE. and SW.</p> <p>10.30 Dry wash, 30 lks. wide, 1 ft. deep, course N.; asc. 40 ft. over W. slope.</p> <p>18.78 Wash, 10 lks. wide, 10 ins. deep, course SW.; asc. 144 ft. over NW. slope.</p> <p>The ¼ sec. cor., which is a sandstone, 15x10x2 ins. above ground, dimly mkd. ¼ on N. face.</p>
1.30 8.76 9.90 11.66 34.42 38.54	<p>In place of corner stone which is buried alongside</p> <p>Set an iron post, 3 ft. long, 1 in. diam., on bedrock, with a cross X, mkd. at base of post, and in a mound of stone, 5 ft. base, 2½ ft. high, for ¼ sec. cor., with brass cap mkd.</p> <p style="text-align: center;">S 2 S 10 1940</p> <p>Thence</p> <p>N. 88° 12' E., on true line bet. secs. 3 and 10.</p> <p>Top of rim, bears NE. and SW.; desc. 54 ft. over SE. slope.</p> <p>Wash, 5 lks. wide, 2 ft. deep, course SE.; asc. 13 ft.</p> <p>Spur, slopes S.; desc. 10 ft.</p> <p>Wash, 20 lks. wide, 3 ft. deep, course SW.; asc. 84 ft. over NW. slope.</p> <p>Wash, 15 lks. wide, 2 ft. deep, course NW.</p> <p>The cor. of secs. 2, 3, 10 and 11.</p> <p>Land, rolling. Soil, rocky, 4th rate. Timber, scattered juniper and pinyon pine; undergrowth, Mormon tea.</p>

Subdivision of section lines in Sec. 25, T. 5 N., R. 10 W.

Chains	From the $\frac{1}{4}$ sec. cor. bet. secs. 25 and 36. N.0°01'E., along true meridional center line of sec. 25. Over rolling land, through scattered timber and undergrowth. Asc. 54 ft. over SE. slope.
16.50	Dim road, bears S.32°W. and N.52°E.
19.10	Top of spur, slopes SW.; desc. 60 ft. over NW. slope.
43.53	Set an iron post, 3 ft. long, 1 in. diam., 10 ins. in the ground to bedrock, and in a mound of stone to top, for center $\frac{1}{4}$ sec. cor., with brass cap mkd. C $\frac{1}{4}$ S 25 1942 from which A juniper, 6 ins. diam., bears N.35 $\frac{1}{2}$ °E.; 152 lks. dist., mkd. C $\frac{1}{4}$ S 25 B T. A pinyon pine, 10 ins. diam., bears S.40 $\frac{1}{2}$ °W., 269 lks. dist., mkd. C $\frac{1}{4}$ S 25 B T.
49.30	Road, bears S.10°E. and N.10°W.
63.30	Same road, bears N.10°E. and S.10°W.
71.45	Graded road, bears N.68 $\frac{1}{2}$ °W. to Chin Lee, and S.68 $\frac{1}{2}$ °E. to Fort Defiance.
75.40	Top of low spur, slopes W.; desc. 12 ft.
82.00	The $\frac{1}{4}$ sec. cor. bet. secs. 24 and 25. Land, rolling. Soil, sandy, 3rd rate; and rocky, 4th rate. Timber, scattered juniper and pinyon pine; undergrowth, sage brush.
	From the $\frac{1}{4}$ sec. cor. bet. secs. 25 and 26. N.89°39'E., along true latitudinal center line of sec. 25. Over rolling land; through scattered timber and undergrowth. Asc. 23 ft. over SW. slope.
5.00	Spur, slopes SW.; desc. 6 ft. over SE. slope.
18.00	Head of canyon, course S.30°W.; asc. 75 ft. over SW. slope.
39.35	The center $\frac{1}{4}$ sec. cor. Asc. 146 ft. over SW. slope.
42.05	Dim road, bears S.20°E. and N.20°W.
54.35	Slope changes; continue ascending over NW. slope.
69.50	Spur; slopes SW.; desc. 49 ft. over NE. slope.
77.75	The $\frac{1}{4}$ sec. cor. of sec. 25 on E. bdy. of Tp.

40 . . . Subdivision-of-section lines in Sec.-25, T. 5 N., R. 10 W.

Chains	Land, rolling. Soil, sandy 3rd rate; and rocky, 4th rate. Timber, scattered juniper and pinyon pine; undergrowth, sage brush.
	Subdivision-of-section lines in Sec. 26, T. 5 N., R. 10 W. From the $\frac{1}{4}$ sec. cor. bet. secs. 26 and 35, N. 0° 36' E., along true meridional center line of sec. 26.
	Over rolling land, through scattered timber and undergrowth. Asc. 10 ft. over SW. slope.
.30	Spur, slopes NW.
9.62	S. rim of canyon, bears NW. and SE.; desc. 184 ft. over NE. slope.
13.82	Bottom of canyon, course W.; asc. 184 ft. over SW. slope.
21.85	N. rim of canyon, bears NW. and SE.; continue over rocky land.
24.91	S. rim of canyon, bears SW. and NE.; desc. 96 ft. over NW. slope.
33.51	Bottom of canyon, course S. 20° W.; asc. 96 ft. over SE. slope.
41.50	Spur, slopes NW.
41.90	Set an iron post, 3 ft. long, 1 in. diam., 24 ins. in the ground to bedrock, and in a mound of stone to top, for center $\frac{1}{4}$ sec. cor., with brass cap mkd. C $\frac{1}{4}$ S 26 1942 from which
	A juniper, 4 ins. diam., bears S. 64 $\frac{1}{2}$ ° E., 46 lks. dist., mkd. C $\frac{1}{4}$ S 26 B T.
	A pinyon pine, 4 ins. diam., bears N. 28 $\frac{1}{2}$ ° W., 53 lks. dist., mkd. C $\frac{1}{4}$ S 26 B T.
	The center $\frac{1}{4}$ sec. cor. is located at head of ravine, course N. 45° W.
	Asc. 11 ft.
43.70	Top of ascent; desc. 100 ft. over gradual NW. slope.
74.46	Wash, 10 lks. wide, 1 $\frac{1}{2}$ ft. deep, course NW.
76.22	Bend in same wash, course NW. from SW.; asc. 10 ft. over SE. slope.
80.32	The $\frac{1}{4}$ sec. cor. bet. secs. 23 and 26. Land, rolling. Soil, sandy loam, 2nd rate; and rocky, 4th rate. Timber, scattered juniper and pinyon pine; undergrowth, sage brush.

Subdivision-of-section lines in Sec. 25, T. 5 N., R. 10 W. 41

Chains	From the $\frac{1}{4}$ sec. cor. bet. secs. 25 and 26. S.88°25'W., along true latitudinal center line of sec. 26. Over rolling hills, through scattered timber and undergrowth.
6.10	Top of rimrocks, 15 ft. high, bears N.30°W. and S.30°E.; desc. 102 ft. over SW. slope.
24.00	Center of wash, 10 lks. wide, 3 ft. deep, course N.45°W.
25.00	Center of wash, 20 lks. wide, 3 ft. deep, course S.45°W.
25.60	Same wash, course N.70°W.; asc. over gradual NE. slope.
27.00	Spur, slopes N.45°W.
27.95	Road, bears N.45°W. and S.45°E.
29.30	Same wash, 20 lks. wide, 3 ft. deep, course S.20°W.; asc. 14 ft. over SE. slope.
37.20	Spur, slopes S.80°W.; desc. 16 ft. over NW. slope.
39.45	The center $\frac{1}{4}$ sec. cor.
40.50	Same spur, slopes N.45°W.; desc. 26 ft. along S. slope.
45.45	Rim of canyon, bears N.30°E. and S.45°W.; desc. 107 ft. over steep NW. slope.
51.20	Wash in bottom of canyon, 50 lks. wide, course S.20°W.; asc. 50 ft. over steep SE. slope.
54.95	Rim of canyon, bears N.45°E. and S.20°W.
56.20	Spur, slopes S.20°W.; desc. 76 ft. over SW. slope.
72.75	Top of rimrocks, 15 ft. high, bears N.45°W. and S.45°E.
74.45	Enter sand dunes, bears N.45°W. and S.45°E.
76.40	Draw, course SE.; asc. 13 ft. over NE. slope.
80.76	The $\frac{1}{4}$ sec. cor. bet. secs. 26 and 27.

Land, rolling hills.
Soil, sandy, 2nd rate; and rocky, 4th rate.
Timber, scattered juniper; undergrowth, sage brush.

Subdivision-of-section lines in Sec. 22, T. 5 N., R. 10 W.

From the $\frac{1}{4}$ sec. cor. bet. secs. 15 and 22.

S.1°57'E., along true meridional center line of sec. 22.

Over level land, through scattered undergrowth.

Through field.

8.50 Leave field, bears E. and W.

13.10 Wire fence, bears E. and W.; fence cor. bears E. 100 lks. dist., from which fence turns NE., and fence cor. bears W. 125 lks. dist., from which fence turns SW.

42 . 01 . Subdivision of section lines in Sec. 22, T. 5 N., R. 10 W.

Chains	
13.55	Road from Chin Lee to Fort Defiance, bears N.80°E. and S.80°W.
20.70	Hogan, bears W. 60 lks. dist.
23.30	Center of shed.
23.70	Leave level land; asc. 71 ft. over N. slope.
26.80	Top of mesa, bears E. and W.; continue along top of mesa, which extends about 5 chs. W. of line.
34.50	Leave mesa, bears N.45°E. and S.70°W.; desc. 58 ft. over S. slope.
36.50	Foot of mesa.
37.05	Road, bears N.70°E. and W.
38.00	Draw, course W.; asc. 58 ft. over N. slope.
38.70	Foot of steep ascent at point of mesa, bears E. and W.
39.70	Top of mesa, bears N.70°E. and S.20°W.; continue along top of mesa.
40.20	Set an iron post, 3 ft. long, 1 in. diam., 12 ins. in the ground to bedrock, with a stone mkd. with a cross X, deposited at the base, and in a mound of stone to top, for witness center $\frac{1}{4}$ sec. cor., with brass cap mkd.
	CG $\frac{1}{4}$ S 22
	W C
	1942
40.45	True point for center $\frac{1}{4}$ sec. cor. falls in rocky ravine, course N.45°W.
43.00	Leave mesa, bears N.45°W. and S.45°E.; desc. 39 ft. over SW. slope.
46.05	Wash, 10 lks. wide, 2 ft. deep, course N.45°W.; asc. 76 ft. over NW. slope.
59.60	Point of mesa extends about 3 chs. W. to toe; desc. 69 ft. over S. slope.
69.30	Center of wash, 50 lks. wide, 4 ft. deep, course N.70°W.; asc. 57 ft. over NE. slope.
84.00	The $\frac{1}{4}$ sec. cor. bet. secs. 22 and 27.
	Land, level and broken hills; soil, sandy, 2nd rate; and rocky, 4th rate. No timber; undergrowth, sage brush.
	From the $\frac{1}{4}$ sec. cor. bet. secs. 21 and 22, over N.84°56'E., along true latitudinal center line of sec. 22. Over rolling and broken land, through scattered undergrowth.
	Desc. 12 ft. over NE. slope.
5.83	Road, bears N. and S.
14.79	Head of draw, course S.30°E.; asc. 18 ft. over SW. slope.

Subdivision-of-section lines in Sec. 22, T. 5 N., R. 10 W.

Chains	
21.70	Spur, slopes SE.; desc. 46 ft. over NE. slope.
23.98	Wash, 12 lks. wide, 2 ft. deep, course N.; continue over level land in bottom of canyon.
29.65	Enter cultivated field, bears N. and S.
35.35	Hogan, bears S. about 150 lks. dist.
35.65	Leave cultivated field, bears N. and S.; asc. 61 ft. over NW. slope.
38.90	^{true point for} The center $\frac{1}{4}$ sec. cor.
	Asc. 63 ft. over top of mesa.
58.80	Top of ridge, bears SE. and NW.; desc. 10 ft. over NE. slope.
62.55	Graded road, bears SE. to Fort Defiance, and NW. to Chin Lee.; asc. 20 ft. over NW. slope.
69.00	Spur, slopes N.; desc. 50 ft. over E. slope.
77.23	The $\frac{1}{4}$ sec. cor. bet. secs. 22 and 23.
	Land, rolling and level. Soil, sandy loam, 2nd rate; and rocky, 4th rate. No timber; undergrowth, rabbit brush.
Subdivision-of-section lines in Sec. 10, T. 5 N., R. 10 W.	
From the $\frac{1}{4}$ sec. cor. bet. secs. 10 and 15.	
N.1°29'E., along true meridional center line of sec. 10.	
Over rolling hills, through scattered timber and undergrowth.	
2.20	Top of rimrock, 6 ft. high, bears N.60°E. and S.60°W.; continue along top of low flat spur, slopes S.45°W.
7.10	Leave spur, slopes SW.; desc. 29 ft. over NW. slope.
13.30	Wash, 20 lks. wide, course S.45°W.; asc. 55 ft. over SE. slope.
19.00	Top of steep ascent; continue ascending along gradual W. slope.
30.10	Dim road, bears N.60°E. and S.60°W.
40.44	Set an iron post, 3 ft. long, 1 in. diam., 16 ins. in the ground to bedrock, with a stone mkd. with a cross X, deposited at the base, and in a mound of stone to top, for center $\frac{1}{4}$ sec. cor., with brass cap mkd.
	C $\frac{1}{4}$ S 10 1942
40.54	Road, bears N.70°W. and S.70°E.
51.40	Top of ascent, bears E. and W.; desc. 73 ft. over NE. slope.
55.40	Slope changes; continue over NW. slope.

44 ... Subdivision-of-section-lines-in Sec.10, T.50 N., R. 10 W.

Chains	
62.04	Wash, 20 lks. wide in bottom of canyon, course W. 9° asc. 74 ft. over SE. slope.
68.50	Top of ascent; desc. 15 ft. over NW. slope.
70.84	Center of wash, 15 lks. wide, course S. 30° W.
80.69	The 1/4 sec. cor. bet. secs. 9 and 10.
	Land, rolling and broken hills. Soil, sandy loam, 2nd rate; and rocky, 4th rate. Timber, scattered juniper; undergrowth, sage and feather weed.
	From the 1/4 sec. cor. bet. secs. 10 and 11, course N. 89° 25' W., along true latitudinal center line of sec. 10. Over rolling land, through scattered timber and undergrowth.
.22	Wash, 10 lks. wide, 1 ft. deep, course N.; asc. 40 ft. over SE. slope.
4.30	Top of spur, slopes N.; desc. 38 ft. over NW. slope.
17.05	Wash, 10 lks. wide, 1 ft. deep, course N. 30° W.; asc. 27 ft. over NE. slope.
24.25	E. rim of mesa, bears S. 30° E. and N. 30° W.; desc. 20 ft. along top of mesa.
32.35	Dim road, bears S. 20° E. and N. 20° W.
39.05	Dim road, bears E. and W.
39.82	The center 1/4 sec. cor. Desc. 21 ft. along top of mesa.
45.03	Ravine, course S. 30° W.; asc. 4 ft. over SE. slope.
46.83	Same road, bears N. 10° E. and S. 10° W.
49.20	Spur, slopes S. 10° W.; desc. 77 ft. over NW. slope.
53.19	Same road, bears NW. and SE.
68.39	Remains of Hogan, 70 lks. S.
79.31	The 1/4 sec. cor. bet. secs. 9 and 10. Land, rolling. Soil, sandy loam, 2nd rate; and rocky, 4th rate. Timber, very scattered juniper; undergrowth, sage brush.

Final Tests of Solar Attachments.

Dec. 4, 1940: in camp on the meridian established Oct. 11, 1940, with transits used by John L. Warboys, and Claude F. Warner, hereinbefore described, at 9h 00m a.m., app. t., we set off $36^{\circ}07\frac{1}{2}'$ N., on the lat. arcs; $22^{\circ}15'$ S. on the decl arcs; and orient the instruments with the solar; the lines of sight agree with the meridian established by Polaris observation.

At 4h 00m p.m., app. t., we set off $36^{\circ}07\frac{1}{2}'$ N., on the lat. arcs; $22^{\circ}15'$ S., on the decl. arcs; and repeat the test with the solar; the lines of sight agree with the meridian established by Polaris observation.

Oct. 4, 1940.

Oct. 11, 1942: In camp on the meridian established Oct. 4, 1942, with transits used by Ty White, and Claude F. Warner, hereinbefore described, at 9h 00m a.m., app. t., we set off $36^{\circ}07\frac{1}{2}'$ N., on the lat. arcs; $6^{\circ}56'$ S., on the decl. arcs; and orient the instruments with the solar; the lines of sight agree with the meridian established by Polaris observation.

At app. noon with the lat. arcs unchanged, we observe the sun on the meridian; the resulting reading of the decl. arcs is $6^{\circ}59'$ S., which agrees with the computed declination of the sun.

At 3h 00m p.m., app. t., we set off $36^{\circ}07\frac{1}{2}'$ N., on the lat. arcs; $7^{\circ}02'$ S., on the decl. arcs; and repeat the test with the solar; the lines of sight agree with the meridian established by Polaris observation.

Oct. 11, 1942

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BOOK 4288

4-680
(Revised May 1934)

FIELD ASSISTANTS

NAMES	CAPACITY
1940	
Clifford Jones	Principal Assistant
John G. Coverdale	Principal Assistant
Larry N. Stewart, Jr.	Chainman
Jack Bowker	Chainman
Mack Miller	Flagman
Raymond H. Wilson	Flagman
Mike Knezevich	Moundsman
Jack S. Hammons	Moundsman
John C. Bowen, Jr.	Axeman
Albert T. Green	Axeman
Kenneth N. Burrow	Axeman
Ernest E. Anderson	Axeman
Albert D. Jennings	Axeman
Otis C. Jones	Axeman
1942	
Mike Knezevich	Principal Assistant
Roy West	Chainman
Ralph L. Lee	Chainman
Gladwin Gregory	Flagman
Stanley J. Jarocha	Flagman
Dale Winnie	Axeman
Roy Thompson	Axeman

BOOK 4288

CERTIFICATE OF UNITED STATES SURVEYOR

We, John L. Warboys, Cadastral Engineer, Ty White, Assistant Cadastral Engineer and Claude F. Warner, Assistant Cadastral Engineer, General Land Office, hereby certify upon honor that, in pursuance of special instructions bearing date of the 17th day of Sept., 1940 and 17th day of Sept., 1942 received from the district cadastral engineer for California, with assignment instructions dated Oct. 1, 1940 and ~~I have surveyed~~ we have resurveyed a portion of the first standard parallel north, through Ranges 9 and 10 West, a portion of the East Boundary and a portion of the subdivisional lines, and surveyed subdivision-of-section lines in sections 10, 22, 25 and 26, Township 5 North, Range 10 West of the Navajo Meridian, in the State of Arizona, which are represented in the foregoing field notes as having been executed by ~~me~~^{US} and under ~~my~~^{our} direction; and that said resurvey and survey has been made in strict conformity with said instructions, the Manual of Instructions for the Survey of the Public Lands of the United States, and in the specific manner described in the foregoing field notes. Glendale, Calif., Dec. 9, 1942.

John L. Warboys
District Cadastral Engineer,
formerly Cadastral Engineer.

Glendale, Calif., April 23, 1943. *Ty White*
Assistant Cadastral Engineer.

Phoenix, Arizona, April 27, 1943. *Claude F. Warner*
Assistant Cadastral Engineer,
formerly Transitman,
General Land Office.

CERTIFICATE OF APPROVAL

OFFICE OF U.S. SUPERVISOR OF SURVEYS,
Denver, Colorado, December 3, 1943.

re-
The foregoing field notes of the survey of a portion of the 1st. Stan. Par. N., through Rs. 9 and 10 W., a portion of the E. Bdy. and a portion of the subdivisional lines, and survey of subdivision-of-section lines in sections 10, 22, 25 and 26, Township 5 North, Range 10 West, Navajo Meridian, in the State of Arizona,

executed by John L. Warboys, Cadastral Engineer, Ty White, Assistant Cadastral Engineer and Claude F. Warner, Transitman and Assistant Cadastral Engineer, General Land Office, under special instructions dated Sept. 17, 1940 & Sept. 17, 1942, and assignment instructions dated Oct. 1, 1940 and Sept. 17, 1942, having been critically examined, and the necessary corrections made prior to their certification by the engineer, the said field notes, and the ^{resurvey and} survey therein described, are hereby approved.

William H. Johnson
U.S. Supervisor of Surveys.

CERTIFICATE OF TRANSCRIPT

I CERTIFY that the foregoing transcript of the field notes of the above-described surveys in _____, is a true copy of the original field notes on file in the public survey office.

U.S. Supervisor of Surveys.