Volume

# #

R0569

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

ORIGINAL

FIELD NOTES

OF THE

DEPENDENT RESURVEY OF A PORTION OF THE WEST BOUNDARY

OF

TOWNSHIP 20 SOUTH, RANGE 19 EAST

WITH ESTABLISHMENT OF CORNERS FOR THE EAST BOUNDARY

OF

TOWNSHIP 20 SOUTH, RANGE 18 EAST

AND

SURVEY OF A PORTION OF THE EAST BOUNDARY, THE SOUTH BOUNDARY, (FOURTH STANDARD PARALLEL SOUTH), THE NORTH BOUNDARY AND PORTION OF THE SUBDIVISION

OF

TOWNSHIP 20 SOUTH, RANGE 18 EAST

Of the Salt Lake *Meridian,*

In the State of Utah

EXECUTED BY

A. D. Griffin, Cadastral Surveyor

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Under the supervision of George D. Voorhees, Cadastral Surveyor

Under special instructions dated February 11 , *1960* , *which provided for the surveys included under Group No.* 399 , *approved* February 23, 1960 *and assignment instructions dated* April 14 and July 1 , *1960*

Survey commenced August 8 , *1960*

Survey completed October 4 , *1960*

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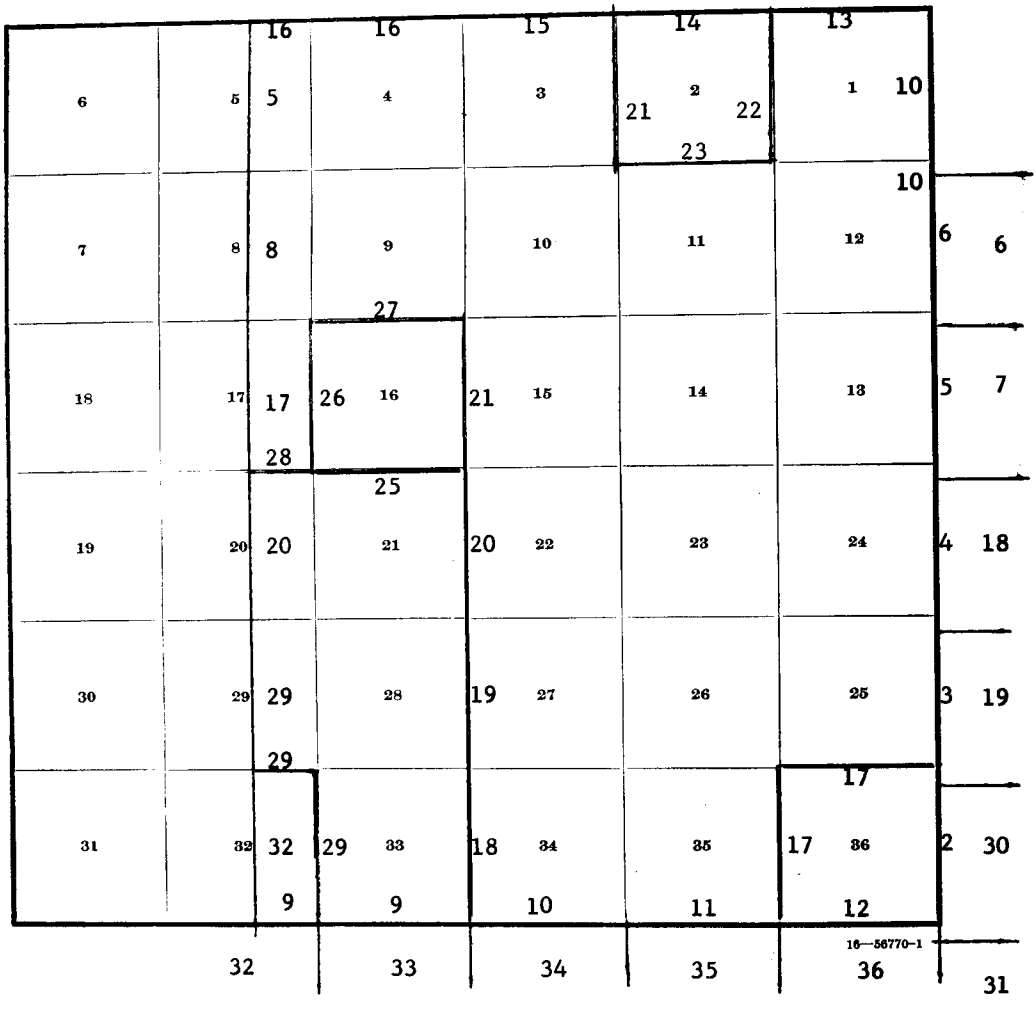
INDEX DIAGRAM

Township 20 South, *Range* 18 East



T. 20½ S., R. 18 E.

Chains

The west boundary of T. 20 S., R. 19 E., was originally surveyed by F. Moore and W. Bandy in 1924, and the east boundary of section 36, T. 20 S., R. 17 E., was originally surveyed by J. T. Breckon in 1907.

The following field notes are those of a dependent resurvey of a portion of the west boundary of T. 20 S., R. 19 E., with the establishment thereon of new corners for the east boundary of T. 20 S., R. 18 E., at intervals of 40.00 and 80.00 chains from the southeast corner of said township. Also, the field notes of the survey of a portion of the east boundary; survey of the south boundary (Fourth Standard Parallel South); survey of the north boundary; and survey of a portion of the subdivisional lines of T. 20 S., R. 18 E. The west boundary of T. 20 S., R. 18 E., was surveyed concurrently under the present group, the record of which appears in the field notes of T. 20 S., R. 17 E.

The survey was executed with two W. & L. E. Gurley solar transits Nos. 580158 and 541330 constructed in accordance with the standard instrumental specifications of the Bureau of Land Management. The instruments were in good condition prior to the beginning of the survey and were maintained in proper adjustment throughout the progress of this survey.

Corners on east-west lines were set on the true latitudinal curve. Lines connecting previously established corners were run by random and true method, but for simplification of the record the random lines are omitted from the field notes. In accordance with the intent of the special instruction, all subdivisional corners established are calculated to be at the position they would occupy if the entire township were subdivided.

Measurements herein contained were made with a narrow steel tape, 8 chains in length, graduated every link for the first 100 links and thereafter at intervals of 10 links. The tape was tested by comparison with a one chain standard steel tape and found to be correct. Measurements were made on the slope with the vertical angle of each interval ascertained by a clinometer in good adjustment; horizontal equivalents alone are entered in the field notes. All lines of this survey were run by direct method where the lines were accessible; lines inaccessible were run by traverse or triangulation methods. Distances to topography on lines run by traverse or triangulation are approximately as scaled from Soil Conservation Service planimetric maps. The details of such traverses or triangulations have been thoroughly checked and verified, and in order to simplify the record the diagrams and reductions are omitted from these field notes.

The direction of the lines of this survey were determined by reference to true meridians established on line by hour angle observations on Polaris or altitude observations on the sun. The lines were carried forward by sustained angulation being supplemented by other numerous altitude observations on the sun taken throughout the progress of the survey.

The geographic position for the southeast corner of the township is latitude 39° 01' 50.95" N. and longitude 109° 52' 18.11" W., as adjusted from traverses to U. S. G. S. triangulation stations within the area.

The magnetic declination was read at a number of stations throughout the township and the average of these readings was found to be 15° 30' E.

Chains

Dependent Resurvey of a Portion of the West Boundary of T. 20 S., R. 19 E., and the Establishment Thereon of New Corners Pertaining to T. 20 S., R. 18 E., at Latitudinal Intervals of 40.00 and 80.00 Chains North From the Closing Corner of Tps. 20 and 20½ S., R. 18 E.

Reestablishment of the survey executed by F. Moore and W. Bandy in 1924.

Beginning at the original cor. of secs. 25, 30, 31 and 36, Tps. 20 S., Rs. 18 and 19 E., which is monumented by an iron post, 2 ins. diam., firmly set, mkd. and witnessed as described in the official record.

As this cor. will now function for T. 20 S., R. 19 E. only, it is remarked so that it new reads

T20S
R18E | R19E
S30
S31
1924
1960

Thence,

N. 0° 10' E., along the W. bdy. of sec. 30.

By triangulation; asc. about 500 ft. over rolling land for about 29.00 chs., thence asc. abrupt SW. slope.

4.13 The closing cor. of Tps. 20 and 20½ S., R. 18 E., hereinafter described.

7.10 Approximate dist. to wash, drains S. 5° E.

17.10 Approximate dist. to small ravine, drains SE.

32.10 Approximate dist. to ravine, drains SW.; asc. abrupt and broken SW. slope.

40.67 The original ¼ sec. cor. of secs. 25 and 30, mkd. by an iron post, 1 in. diam., set, mkd. and witnessed as described in the official record. This cor. will now function as the ¼ sec. cor. of sec. 30, T. 20 S., R. 19 E. only and is remarked. End of triangulation.

¼
S30
1924

N. 0° 13' E., beginning new measurement.

3.46 Point for the ¼ sec. cor. of sec. 36, T. 20 S., R. 18 E.

Set an iron post, 30 ins. long, 2½ ins. diam., on solid sandstone, in a mound of stone, 4 ft. base to top, with brass cap mkd.

T20S
R18E | R19E
¼
S36
1960

Asc. about 400 ft. over broken and steep SW. slope, by triangulation.

23.36 End of triangulation.

29.06 Top of ascent, bears S. 15° E.; thence desc. 70 ft. along top.

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Chains	
40.02	The original cor. of secs. 19, 24, 25 and 30, mkd. by an iron post, 2 ins. diam., set, mkd. and witnessed as described in the official record. This cor. will now function as the cor. of secs. 19 and 30, T. 20 S., R. 19 E. only, and is remarked to now read: T20S . R19E S19 S30 1924 Land, mountainous. Soil, sandy and rocky clay loam. Timber, scattered pinon and juniper.
	N. 0° 20' E., along the W. bdy. of sec. 19.
	Asc. 40 ft. to cor. of secs. 25 and 36.
3.44	Point for the cor. of secs. 25 and 36, T. 20 S., R. 18 E. Set an iron post, 30 ins. long, 2½ ins. diam., 18 ins. in the ground, in a mound of stone, 2 ft. base to top, with brass cap mkd. T20S R18E R19E S25 | S19 S36 1960
	Asc. S. slope through dense pinon and juniper.
10.10	Top of ascent, bears S. 10° E., thence along top.
20.20	Desc. about 180 ft. over NW. slope.
40.11	The original ¼ sec. cor. of secs. 19 and 24, mkd. by an iron post, 1 in. diam., set, mkd. and witnessed as described in the official record. This cor. will now function as the ¼ sec. cor. of sec. 19, T. 20 S., R. 19 E. only, and is remarked to now read: ¼ S19 1924
	N. 0° 21' E., beginning new measurement.
	Asc. about 40 ft. over S. slope.
1.50	Spur, projects W.; desc. about 50 ft. over N. slope.
3.33	Point for the ¼ sec. cor. of sec. 25, T. 20 S., R. 18 E. Set an iron post, 30 ins. long, 2½ ins. diam., 6 ins. in the ground, in a mound of stone, 3½ ft. base to top, with brass cap mkd. T20S R18E R19E ¼ S25 1960
	By triangulation; desc. about 720 ft. over steep NW. slope.

Dependent Resurvey, Portion of W. Bdy., T. 20 S., R. 19 E.

Chains	
18.30	Approx. dist. to ravine, drains NW.
22.90	Approx. dist. to ravine, drains NW.
28.90	Approx. dist. to small ravine, drains W.
39.06	The original cor. of secs. 13, 18, 19 and 24, mkd. by an iron post, 2 ins. diam., set, mkd. and witnessed as described in the official record. This cor. now functions for the cor. of secs. 18 and 19, T. 20 S., R. 19 E. only, and is now remarked to read:

T20S R19E
S18
S19
1924

Land, mountainous, steep.
Soil, sandy and rocky loam.
Timber, dense pinon and juniper.

N. 0° 25' E., along the W. bdy. of sec. 18.

.85	Approx. dist. to small wash, drains NW.
3.30	Approx. dist. to Horse Canyon, drains S. 45° W.; asc. about 90 ft. over SE. slope.
4.27	Point for the cor. of secs. 24 and 25, T. 20 S., R. 18 E.

Set an iron post, 30 ins. long, 2½ ins. diam., 6 ins. in the ground, in a mound of stone, 3 ft. base to top, with brass cap mkd.

T20S
R18E R19E
S24 | S18
S25
1960

Asc. about 400 ft. over steep and broken SE. slope, by triangulation.

14.25	Approx. dist. to small ravine, drains S. 10° E.
32.25	Approx. dist. to small ravine, drains SE.
39.98	The original ¼ sec. cor. of secs. 13 and 18, mkd. by an iron post, 1 in. diam., set, mkd. and witnessed as described in the official record. This cor. now functions for the ¼ cor. of sec. 18, T. 20 S. R. 19 E. only, and was remarked to read:

¼
S18
1924

N. 0° 18' E., beginning new measurement.

1.35	Approx. dist. to small ravine, drains SE.
4.29	Point for the ¼ sec. cor. of sec. 24.

Set an iron post, 30 ins. long, 2½ ins. diam., 15 ins. in the ground in a mound of stone, 2½ ft. base to top, with brass cap mkd.

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Chains	
	T20S R18E R19E ¼ S24 | 1960
15.00	End of triangulation and top of ledge 75 ft. high, bears irregularly S. 60° E. and S. 45° W.
18.10	Top of ledge 20 ft. high, bears E. and W.
24.90	Top of ascent; desc. about 280 ft. over NE. slope.
36.30	Head of ravine, drains E.; asc. about 160 ft. over SE. slope.
39.32	The original cor. of secs. 7, 12, 13 and 18, mkd. by an iron post, 2 ins. diam., set, mkd. and witnessed as described in the official record. This cor. now functions for the cor. of secs. 7 and 18, T. 20 S., R. 19 E. only, and is now remarked to read: T20S. R18E R19E S 7 | S18 1924 Land, mountainous, broken. Soil, sandy to rocky loam. Timber, dense pinon and juniper.

N. 0° 09' E., along the W. bdy. of sec. 7.

4.97	Point for the cor. of secs 13 and 24 falls on large sandstone boulder where cor. cannot be established.
6.47	Point selected for the witness cor. of secs. 13 and 24, T.20 S.,R.18E. Set an iron post, 30 ins. long, 2½ ins. diam., 12 ins. in the ground, in a mound of stone, with brass cap mkd. T20S R18E R19E S13 | S 7 S24 W C 1960
	Asc. about 50 ft. over SE. slope.
15.00	Top of ascent, bears irregularly E. and W.; desc. about 60 ft. over NW. slope.
28.50	Small ravine, drains W.; asc. about 20 ft. over SW. slope.
36.10	Spur, projects N. 75° W.; desc. about 300 ft. over NE. slope.
40.23	The original ¼ sec. cor. of secs. 7 and 12, mkd. by an iron post, 1 in. diam., set, mkd. and witnessed as described in the official record. This cor. now functions for the ¼ sec. cor. of sec. 7, T. 20 S., R. 19 E. only, and is now remarked to read: ¼ S 7 | 1924

Dependent Resurvey, Portion of W. Bdy., T. 20 S., R. 19 E.

Chains	
	N. 0° 11' W., beginning new measurement.
4.74	Point for the ¼ sec. cor. of sec. 13, T. 20 S., R. 18 E.
	Set an iron post, 30 ins. long, 2½ ins. diam., 10 ins. in the ground, in a mound of stone, 3 ft. base to top, with brass cap mkd.
	T20S R18E R19E ¼ S13 | 1960
	By triangulation; desc. about 170 ft. over NE. slope.
12.70	Approx. dist. to small ravine, drains NW.
22.70	Approx. dist. to bottom of canyon, drains SW.; asc. about 520 ft. over SE. slope.
39.29	End of triangulation.
39.59	The original cor. of secs. 1, 6, 7 and 12, mkd. by an iron post, 2 ins. diam., set, mkd. and witnessed as described in the official record. This cor. now functions for the cor. of secs. 6 and 7, T. 20 S., R. 19 E. only, and is now remarked to read:
	T20S R18E R19E S 6 | S 7 | 1924
	Land, steep mountainous. Soil, sandy and rocky loam. Timber, dense pinion and juniper.

	N. 0° 27' E., along the W. bdy. of sec. 6.
5.15	Point for the cor. of secs. 12 and 13, T. 20 S., R. 18 E.
	Set an iron post, 30 ins. long, 2½ ins. diam., 8 ins. in the ground, in a mound of stone, 3 ft. base to top, with brass cap mkd.
	T20S R18E R19E S12 | S 6 S13 | 1960
	Asc. abruptly about 500 ft. over ledges, through dense timber on SE. slope.
25.40	Old mine, bears S. 89° 58' E., 21.90 chs. dist.
33.10	Top of ascent, bears N. 40° E. and S. 40° W.; desc. about 340 ft. over NW. slope.
39.62	The original ¼ sec. cor. of secs. 1 and 6, mkd. by an iron post, 1 in diam., set, mkd. and witnessed as described in the official record. This cor. now functions for the ¼ sec. cor. of sec. 6, T. 20 S., R. 19 E. only and is remarked to read:

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Dependent Resurvey, Portion of W. Bdy., T. 20 S., R. 19 E.

Chains	
	S6 ¼ 1924
	N. 0° 03' W., beginning new measurement.
5.53	Point for the ¼ sec. cor. of sec. 12, T. 20 S., R. 18 E. Set an iron post, 30 ins. long, 2½ ins. diam., 12 ins. in the ground, in a mound of stone, 2½ ft. base to top, with brass cap mkd. T20S R18E R19E ¼ S12 1960
	By triangulation.
8.00	Approx. dist. to small ravine, drains NW.
9.90	Approx. dist. to spur, projects W.; desc. about 180 ft. over NW. slope.
24.96	End of triangulation.
25.50	Road, unimproved, in bottom of canyon, bears S. 45° W. and N. 45° E.
27.65	Wash, 30 lks. wide, 6 ft. deep, drains S. 45° W.
28.25	The original closing cor. of Tps. 20 S., Rs. 18 and 19 E., mkd. by an iron post, 3 ins. diam., set, mkd. and witnessed as described in the official record. This cor. now functions for Tps. 19 and 20 S., R. 19 E. and is now remarked to read: T19S S31 S 6 R18E R19E T20S 1924 from which, The original Tp. cor. of Tps. 19 S., Rs. 18 and 19 E., mkd. by an iron post, 3 ins. diam., set, mkd. and witnessed as described in the official record, bears N. 89° 53' W., 8.79 chs. dist. This cor. is destroyed as directed by the special instructions. Land, mountainous, steep. Soil, sandy and rocky loam. Timber, pinon and juniper.

Survey of a Portion of the East Boundary, T. 20 S., R. 18 E.

	From the cor. of Tps. 19 and 20 S., R. 19 E., previously described. North, along the E. bdy. of sec. 12. By triangulation; asc. about 250 ft. over SE. slope.
14.60	End of triangulation; top of ascent, bears E. and W., thence across top.

Survey of Portion of East Boundary, T. 20 S., R. 18 E.

Chains	
17.28	Point for the cor. of secs. 1 and 12 (at 80.00 chs. northing from SE. cor. of sec. 12.) Set an iron post, 30 ins. long, 2½ ins. diam., 8 ins. in the ground, in a mound of stone to top, with brass cap mkd. T20S R18E R19E S 1 | S12 | 1960 Land, mountainous, broken. Soil, sandy loam, rocky. Timber, dense pinon and juniper.
	North, along the E. bdy. of Sec. 1. Through dense pinon and juniper on top of ridge.
4.96	Desc. about 350 ft. over broken N. slope, by triangulation.
25.00	Approx. dist. to ravine, drains W.; asc. about 370 ft. over precipitous and broken SW. slope.
40.00	Point for the ¼ sec. cor. of sec. 1 is inaccessible and is not monumented.
49.20	Point selected for the witness ¼ sec. cor. of sec. 1. Set an iron post, 30 ins. long, 2½ ins. diam., 6 ins. in the ground, in a mound of stone, 3½ ft. base to top, with brass cap mkd. T20S R18E R19E ¼ S 1 | W C 1960
51.56	End of triangulation. Top of spur, projects W.; desc. about 250 ft. over N. slope, by triangulation.
64.92	End of triangulation. Slope changes to NW.; desc. about 320 ft.
80.00	Point for the 1/16 sec. cor. of sec. 1. Set an iron post, 30 ins. long, 2½ ins. diam., 8 ins. in the ground, in a mound of stone, 4 ft. base to top, with brass cap mkd. T20S R18E R19E 1/16 S 1 | 80 1960 By triangulation.
80.50	Wash, drains NW.
83.00	Approx. dist. to small ravine, drains W.

Chains	
85.30	Point for the cor. of Tps. 19 and 20 S., R. 18 E. (Due E. of cor. of Tps. 19 and 20 S., Rs. 17 and 18 E.) End of triangulation.
	Set an iron post, 30 ins. long, 2½ ins. diam., 12 ins. in the ground and in a mound of stone, 3 ft. base to top, with brass cap mkd.
	T19S R18E R19E S36 | S.1 | T20S 1960
	Land, mountainous, broken. Soil, sandy and rocky. Timber, dense pinon and juniper.

Fourth Standard Parallel South through Range 18 East

The survey of the Fourth Standard Parallel South, or the S. bdy. of T. 20 S., R. 18 E.

Beginning at the std. Tp. cor. of Tps. 20 S., Rs. 17 and 18 E., monumented by a 2½ ins. iron post firmly set, mkd. and witnessed as described in the field notes of the survey of T. 20 S., R. 17 E.

East, along the S. bdy. of sec. 32, and along the N. bdy. of sec. 32, T. 20½ S., R. 18 E., as provided for in the special instructions.

Desc. about 950 ft. over steep and broken E. slope, by triangulation.

23.24	Point for stan. cor. of secs. 32, 33, 32 and 33 (at 320.00 chs. W. of the E. bdy. of the Tp.).
	Set an iron post, 30 ins. long, 2½ ins. diam., 18 ins. in the ground, in a collar of stone to top, with brass cap mkd.
	S C T20S R18E S32 | S33 S32 | S33 T20½S 1960
	Land, broken, steep. Soil, sandy, shallow. Timber, scattered pinion and juniper.
	East, bet. secs. 33 and 33.
	Over series of small spurs; desc. about 50 ft. over NE. slope.
8.40	Ravine, drains S. 60° E.; asc. about 30 ft. along S. slope.
15.70	Spur, projects S. 10° E. about 3.00 chs.; desc. about 70 ft. over NE. slope.
16.75	End of triangulation.
18.70	Ravine, drains S. 10° E.; asc. about 40 ft. over W. slope.
19.90	Spur, projects S. about 3.00 chs.; desc. about 260 ft. over series of small spurs.

Chains	
23.00	Ravine, drains S., about 40 ft. deep.
26.40	Spur, projects S. about 2.00 chs.; desc. about 50 ft. over E. slope.
39.40	Wash, 30 lks. wide, 3 ft. deep, drains S.; asc. about 40 ft. over W. slope.
40.00	Point for the standard ¼ sec. cor. of secs. 33 and 33. Set an iron post, 30 ins. long, 2½ ins. diam., 3 ins. in the ground, in a mound of stone, 3½ ft. base to top, with brass cap mkd. S C T20S R18E ¼ S33 S33 T20½S 1960 Asc. about 400 ft. over W. slope, by triangulation.
78.30	End of triangulation. Spur, projects S.; desc. about 50 ft. over E. slope.
79.94	Point for the witness standard cor. of secs. 33, 34, 33 and 34. Set an iron post, 30 ins. long, 2½ ins. diam., 10 ins. in the ground to bedrock, in a mound of stone, 3½ ft. base to top, with brass cap mkd. S C T20S R18E S33 | S34 W S33 | S34 C T20½S 1960
80.00	True point for the cor. of secs. 33, 34, 33 and 34. Land, mountainous, steep. Soil, sandy clay, rocky. Timber, scattered pinon and juniper.

East, bet. secs. 34 and 34.

Desc. about 630 ft. over steep and broken SE. slope, by triangulation.

17.00	Approx. dist. to ravine, drains SE.
33.00	Approx. dist. to ravine, drains SE.
40.00	Point for the standard ¼ sec. cor. of secs. 34 and 34. Set an iron post, 30 ins. long, 2½ ins. diam., 6 ins. in the ground to bedrock, in a mound of stone, 4 ft. base to top, with brass cap mkd. S C T20S R18E ¼ S34 S34 T20½S 1960
47.30	Ravine, drains S. 10° E.; asc. about 20 ft. over SW. slope.

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Fourt Standard Parallel South, T. 20 S., R. 18 E.

Chains	
53.24	End of triangulation; spur projects S.; desc. about 70 ft. over E. slope.
55.10	Horse Canyon, drains S.; asc. about 500 ft. over W. slope by triangulation.
73.00	Approx. dist. to ravine, drains NW.
80.00	Point for the standard cor. of secs. 34, 35, 34 and 35.
	Set an iron post, 30 ins. long, 2½ ins. diam., 6 ins. in the ground to bedrock, in a mound of stone, 3½ ft. base to top, with brass cap mkd. S C T20S R18E S34 | S35 S34 | S35 T20½S 1960
	Land, mountainous, steep, broken. Soil, sandy loam. Timber, scattered pinon and juniper.
	East, bet. secs. 35 and 35. Asc. about 50 ft. over W. slope.
2.25	Spur, projects N.; end of triangulation.
	By triangulation; desc. about 200 ft. over series of small spurs.
6.00	Approx. dist. to small ravine, drains N. 10° E.
12.00	Approx. dist. to small ravine, drains N.
18.50	Approx. dist. to small ravine, drains N. 10° W.
30.00	Approx. dist. to head of ravaine, drains N. 70° W.; asc. about 450 ft. over NW. slope.
40.00	Point for the standard ¼ sec. cor. of secs. 35 and 35 falls on precipitous NW. slope where cor. cannot be established.
51.60	Top of ledge, 50 ft. high, bears N. 15° E. and S. 15° W.
52.03	Point selected for the witness standard ¼ sec. cor. of secs. 35 and 35.
	Set an iron post, 30 ins. long, 2½ ins. diam., on solid sandstone, in a mound of stone, 5 ft. base to top, with brass cap mkd. S C T20S R18E ¼W S35 ¼C S35 T20½S 1960
	Asc. about 80 ft. over NW. slope.
63.20	Top of ascent, bears S. 15° W.; desc. about 60 ft. over SE. slope.

Fourth Standard Parallel South, T. 20 S., R. 18 E.

Chains	
70.45	By triangulation, desc. about 200 ft. over sandstone ledges and outcroppings.
80.00	Point for the standard cor. of secs. 35, 36, 35 and 36.
	Set an iron post, 30 ins. long, 2½ ins. diam., 6 ins. in the ground to bedrock, in a mound of stone, 4 ft. base to top, with brass cap mkd.
	S C T20S R18E S35 | S36 S35 | S36 T20½S 1960
	Land, mountainous, broken. Soil, sandy clay, rocky. Timber, scattered pinon and juniper.
	East, bet. secs. 36 and 36.
	By triangulation; desc. about 470 ft. over steep and broken SE. slope.
2.50	Approx. dist. to small ravine, drains S.
33.44	End of triangulation; spur projects S. 20° E. about 2.00 chs.; desc. about 140 ft. over NE. slope.
40.00	Point for the standard ¼ sec. cor. of secs. 36 and 36.
	Set an iron post, 30 ins. long, 2½ ins. diam., 8 ins. in the ground to bedrock, in a mound of stone to top, with brass cap mkd.
	S C T20S R18E ¼ S36 S36 T20½S 1960
	By triangulation; desc. about 200 ft. over NE. slope.
48.00	Approx. dist. to ravine, drains S. 30° E.; asc. about 250 ft. over SW. slope.
53.00	Approx. dist. to spur, projects S.; desc. about 80 ft. over E. slope.
59.00	Approx. dist. to ravine, drains S.; asc. about 50 ft. over W. slope.
65.00	Approx. dist. to spur, projects S.; desc. about 40 ft. over E. slope.
71.50	Approx. dist. to ravine, drains S. 10° E.; asc. about 50 ft. over W. slope.
77.41	End of triangulation; desc. about 70 ft. over E. slope.
80.00	Intersect W. bdy., sec. 30, T. 20 S., R. 19 E. at point for the standard closing cor. of Tps. 20 and 20½ S., R. 18 E.
	Set an iron post, 30 ins. long, 2½ ins. diam., 8 ins. in the ground to bedrock, in a mound of stone, 3 ft. base to top, with brass cap mkd.

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Fourth Standard Parallel South, T. 20 S., R. 18 E.

Chains	
	C C T20S R18E R19E C S36 | S30 C S36 | T20½S 1960
	from which,
	The cor. of secs. 30 and 31, hereinbefore described, bears S. 0° 10' W., 4.13 chs. dist.
	Land, mountainous, steep. Soil, sandy clay, rocky. Timber, scattered pinon and juniper.

Survey of the North Boundary of T. 20 S., R. 18 E.

	From the cor. of Tps. 19 and 20 S., R. 18 E., hereinbefore described.
	West, bet. secs. 1 and 36.
	By triangulation; desc. about 400 ft. over NW. slope.
16.00	Approx. dist. to bottom of Tusher Creek, drains S. 30° W.; asc. about 500 ft. over SE. slope.
33.20	Approx. dist. to where slope changes to broken S.
36.92	End of first triangulation, beginning of second triangulation.
38.45	Point selected for the witness ¼ sec. cor. of secs. 1 and 36.
	Set an iron post, 30 ins. long, 2½ ins. diam., 10 ins. in the ground to solid rock, in a mound of stone, 4 ft. base to top, with brass cap mkd.
	T19S R18E ¼ W S36 C S 1 T20S 1960
	Cont. over ledges on S. slope.
40.00	Point for the ¼ sec. cor. of secs. 1 and 36, falls on ledge where cor. cannot be established.
43.00	Approx. dist. to ravine, drains SE.; asc. over NE. slope.
52.00	Approx. dist. to spur, projects N.; desc. over NW. slope.
60.00	Approx. dist to head of ravine, drains NE.; desc.
66.50	Approx. dist. to spur, projects SW.; asc. about 330 ft. over NE. slope.
68.00	Approx. dist. to spur, projects S. 15° E.; desc. about 150 ft. over W. slope.
73.00	Approx. dist. to ravine, drains S.; asc. about 50 ft. over SE. slope.
79.46	Top of ascent, bears S. 15° W. for about 3.00 chs. End of triangulation; desc. over NW. slope.

Chains

80.00 Point for the cor. of secs. 1, 2, 35 and 36.

Set an iron post, 30 ins. long, 2½ ins. diam., 8 ins. in the ground to solid rock, in a mound of stone, 4 ft. base to top, with brass cap mkd.

T19S R18E
S35 | S36
S2 | S1
T20S
1960

Land, mountainous and broken.
Soil, sandy loam.
Timber, pinon and juniper.

West, bet. secs. 2 and 35.

5.00 Approx. dist. to head of ravine, drains S.; asc. about 200 ft. over SE. slope.

28.75 Top of ascent, bears N. 15° E. and S. 15° W.; desc. about 100 ft. over NW. slope to ¼ sec. cor.

31.34 Beginning of triangulation.

40.00 Point for the ¼ sec. cor. of secs. 2 and 35, at end of triangulation.

Set an iron post, 30 ins. long, 2½ ins. diam., 14 ins. in the ground to solid rock, in a mound of stone, 3½ ft. base to top, with brass cap mkd.

T19S R18E
¼ S35
S 2
T20S
1960

41.11 Beginning of triangulation.

47.50 Approx. dist. to small ravine, drains NW.

71.50 Approx. dist. to small ravine; desc. about 240 ft. over NW. slope to sec. cor.

80.00 Point for the cor. of secs. 2, 3, 34 and 35, at end of triangulation.

Set an iron post, 30 ins. long, 2½ ins. diam., 6 ins. in the ground to solid rock, in a mound of stone, 4 ft. base to top, with brass cap mkd.

T19S R18E
S34 | S35
S3 | S2
T20S
1960

Land, mountainous.
Soil, sandy and rocky.
Timber, pinon and juniper.

Survey of the North Boundary of T. 20 S., R. 18 E.

Chains	
	West, bet. secs. 3 and 34.
	Desc. over short SW. slope.
1.15	Ravine, drains N. 50° W.; asc. about 20 ft. along N. slope.
1.97	Beginning of triangulation.
21.10	Approx. dist. to spur, projects N. for about 5.00 chs.
31.50	Approx. dist. to ravine, drains N.
36.50	Approx. dist. to ravine, drains N.
36.50	Approx. dist. to small ravine, drains NW.; desc. about 180 ft. over NW. slope.
40.00	Point for the ¼ sec. cor. of secs. 3 and 34.
	Set an iron post, 30 ins. long, 2½ ins. diam., 8 ins. in the ground to solid rock, in a mound of stone, 3½ ft. base to top, with brass cap mkd.
	T19S R18E ¼ S34 S 3 T20S 1960
	Asc. 10 ft. over E. slope.
41.35 =	Small spur, projects W.; end of triangulation; desc. about 50 ft. over NW. slope.
50.00	Approx. dist. to head of ravine, drains NE.; asc. about 50 ft. over E. slope.
55.11	Top of spur, projects N.; beginning of triangulation; desc. about 250 ft. over NW. slope to SW. cor.
67.50	Approx. dist. to small ravine, drains NW.
72.00	Approx. dist. to small ravine, drains NW.
77.00	Approx. dist. to ravine, drains NW.
78.75	End of one triangulation, beginning of another.
80.00	Point for the cor. of secs. 3, 4, 33 and 34.
	Set an iron post, 30 ins. long, 2½ ins. diam., 6 ins. in the ground to solid rock, in a mound of stone, 4 ft. base to top, with brass cap mkd.
	T19S R18E S33 | S34 S4 | S3 T20S 1960
	Land, broken mountainous. Soil, sandy and rocky. Timber, pinon and juniper.

Chains	
	West, bet. secs. 4 and 33.
	By triangulation; desc. about 580 ft. over SW. slope to Tusher Creek.
16.10	Approx. dist. to bottom of Tusher Creek, drains S. 40° W.; asc. about 550 ft. over broken and precipitous SE. slope to witness ¼ sec. cor.
40.00	Point for the ¼ sec. cor. of secs. 4 and 33 falls on inaccessible point on face of sloping cliffs.
45.31	Point selected for the witness ¼ sec. cor. of secs. 4 and 33, on top of ledge, 60 ft. high, bears SW. and NE.; at end of triangulation.
	Set an iron post, 30 ins. long, 2½ ins. diam., 3 ins. in the ground to solid rock, in a mound of stone, 3½ ft. base to top, with brass cap mkd.
	T19S R18E ¼ S33 W S 4 C T20S 1960
	Asc. about 140 ft. over E. slope.
63.80	Top of ridge; desc. about 100 ft. over same.
80.00	Point for the cor. of secs. 4, 5, 32 and 33.
	Set an iron post, 30 ins. long, 2½ ins. diam., 6 ins. in the ground to solid rock, in a mound of stone, 3½ ft. base to top, with brass cap mkd.
	T19S R18E S32 | S33 S5 | S4 T20S 1960
	Land, mountainous. Soil, sandy. Timber, scattered pinon and juniper.

	West, bet. secs. 5 and 32.
	Along top of ridge.
18.25	To end of ridge; desc. about 120 ft. over NW. slope to Tp. cor.
25.15	The cor. of Tps. 19 and 20 S., Rs. 17 and 18 E., mkd. by an iron post, 2½ ins. diam., set, mkd. and witnessed as described in the field notes of the survey of a portion of the E. bdy. of T. 20 S., R. 17 E., executed concurrently under the present survey group.
	Land, mountainous. Soil, sandy. Timber, scattered pinon and juniper.

Survey of Portion of Subdivision of T. 20 S., R. 18 E.

Chains	
	From the standard cor. of secs. 35 and 36, T. 20 S., R. 18 E., identical with cor. of secs. 35 and 36, T. 20½ S., R. 18 E., hereinbefore described.
	N. 0° 01' W., bet. secs. 35 and 36.
	Asc. about 440 ft. over S. slope.
13.20	Spur, projects E.; desc. about 20 ft. along E. slope.
20.00	Head of draw, drains E.; asc. about 120 ft. over SE. slope.
31.30	Top of vertical ledge, 50 ft. high, bears SW. and NE.; asc. about 50 ft. over S. slope.
34.70	Ridge, bears NE. and W.; desc. about 210 ft. over steep N. slope.
40.00	Point for the ¼ sec. cor. of secs. 35 and 36.
	Set an iron post, 30 ins. long, 2½ ins. diam., 6 ins. in the ground to solid rock, in a mound of stone, 3½ ft. base to top, with brass cap mkd..
	T20S R18E ¼ S35 | S36 1960
	Desc. about 680 ft. over steep N. slope.
65.50	Draw, drains NW.; asc. about 70 ft. over SW. slope.
68.30	Spur, projects W.; desc. about 70 ft. over W. slope.
72.90	Slope changes to N.; desc. about 180 ft.
80.00	Point for the cor. of secs. 25, 26, 35 and 36.
	Set an iron post, 30 ins. long, 2½ ins. diam., 6 ins. in the ground to solid rock, in a mound of stone, 4 ft. base to top, with brass cap mkd..
	T20S R18E S26 | S25 S35 | S36 1960
	Land, mountainous. Soil, rocky clay. Timber, medium dense pinon and juniper.
	From the cor. of secs. 25 and 36, on the E. bdy. of the Tp., hereinbefore described.
	N. 89° 59' W., bet. secs. 25 and 36.
	Over broken, mountainous land, through medium growth of timber.
	Desc. about 60 ft. over W. slope.
11.20	Draw, drains S.; thence asc. about 100 ft. over SE. slope.
15.90	Spur, projects S.; thence desc. about 30 ft. over W. slope.
20.40	Draw, drains S.; thence asc. about 30 ft. over gentle E. slope.

Survey of a Portion of the Subdivision of T. 20 S., R. 18 E.

Chains	
40.07	Point for the ¼ sec. cor. of secs. 25 and 36. Set an iron post, 30 ins. long, 2½ ins. diam., 6 ins. in the ground to solid rock, in a mound of stone, 3½ ft. base to top, with brass cap mkd. T20S R18E ¼ S25/S36 1960
42.68	By triangulation; desc. about 1,040 ft. over steep and broken W. slope.
42.74	Leave dense timber, bears N. and S., top of vertical ledge, 40 ft. high, bears N. and S.
50.10	Approx. dist. to small ravine, drains S. 70° W.
56.10	Approx. dist. to small ravine, drains S. 70° W.
64.60	Approx. dist. to small ravine, drains N. 70° W.
71.10	Approx. dist. to ravine, drains NW.
80.14	The cor. of secs. 25, 26, 35 and 36. Land, mountainous. Soil, rocky clay. Timber, pinon and juniper.

From the standard cor. of secs. 33 and 34, T. 20 S., R. 18 E., identical with cor. of secs. 33 and 34, T. 20½ S., R. 18 E. hereinbefore described.

N. 0° 02' W., bet. secs. 33 and 34.

Asc. about 100 ft. over abrupt, broken ledges of S. slope covered with pinon and juniper; by triangulation.

4.31	End of triangulation; asc. about 260 ft. over SE. slope.
13.80	Spur, projects SW.; desc. about 60 ft. over NW. slope.
19.00	Draw, drains SW.; asc. about 10 ft. over SW. slope.
20.50	Spur, projects SW.; desc. about 50 ft. over NW. slope.
22.80	Draw, drains W.; asc. about 20 ft. over S. slope.
25.80	Spur, projects SW.; desc. about 120 ft. over NW. slope.
33.60	Head of draw, drains W.; asc. about 10 ft. over SW. slope.
40.00	Spur, projects S. 20° W.
	Point for the ¼ sec. cor. of secs. 33 and 34. Set an iron post, 30 ins. long, 2½ ins. diam., 10 ins. in the ground to underlying rock, in a mound of stone, 3 ft. base to top, with brass cap mkd. T20S R18E ¼ S33/S34 1960

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of of Subdivision of T. 20 S., R. 18 E.

Chains	
	Desc. about 60 ft. over series of small spurs and boulders.
51.60	Head of gulch which drains SW.; asc. about 90 ft. over steep SW. slope.
57.25	Top of spur, projects W.; desc. about 100 ft. over NW. slope, by triangulation.
67.00	Approx. dist. to draw, drains NW.
72.30	Approx. dist. bottom of descent; asc. about 180 ft. over SE. slope.
78.00	Approx. dist. to small draw, drains SW.
80.00	Point for the cor. of secs. 27, 28, 33 and 34 falls on ledge where cor. cannot be established.
	Land, mountainous, steep. Soil, sandy loam, rocky. Timber, pinon and juniper.
	N. 0° 02' W., secs. 27 and 28.
0.97	Point selected for the witness cor. of secs. 27, 28, 33 and 34.
	Set an iron post, 30 ins. long, 2½ ins. diam., 8 ins. in the ground to solid rock, in a mound of stone, 3½ ft. base to top, with brass cap mkd.

T20S R18E
S28 | S27
S33 | S34
W C
1960

	Asc. about 90 ft. over S. slope covered with large boulders.
6.50	Top of ascent, projects W., desc. about 80 ft. over NW. slope.
13.48	Desc. about 340 ft. over steep NW. slope, by triangulation.
26.00	Approx. dist. to small draw, drains NW.
30.50	Approx. dist. to small draw, drains NW.
34.03	End of triangulation on small spur, projects NW.
36.00	Small draw, drains NW.
39.00	Spur, projects NW.; desc. about 50 ft. over NE. slope.
40.00	Point for the ¼ sec. cor. of secs. 27 and 28.
	Set an iron post, 30 ins. long, 2½ ins. diam. 6 ins. in the ground to solid rock, in a mound of stone, 3 ft. base to top, with brass cap mkd.

T20S R18E
¼
S28 | S27
1960

	Desc. about 620 ft. over NW. slope, by triangulation.
41.50	Approx. dist. to wash, drains W.
44.50	Approx. dist. to spur, projects W.

Survey of Portion of the Subdivision, T. 20 S., R. 18 E.

Chains	
50.50	Approx. dist. to wash, drains SW.; asc. about 830 ft. over broken S. slope.
73.10	End of triangulation.
80.00	Point for the cor. of secs. 21, 22, 27 and 28.
	Set an iron post, 30 ins. long, 2½ ins. diam., 6 ins. in the ground to underlying rock, in a mound of stone, 4 ft. base to top, with brass cap mkd.
	T20S R18E S21 | S22 S28 | S27 1960
	Land, broken. Soil, sandy, rocky. Timber, medium dense pinon and juniper.

N.0°02' W., bet. secs. 21 and 22.

Asc. abruptly about 400 ft. over series of ledges 20 ft. to 70 ft. high on S. slope, by triangulation.

7.40	Top of vertical ledge 70 ft. high, bears E. and W.; asc. gentle S. slope; enter dense timber, bears E. and W.
7.62	End of triangulation.
14.30	Ridge, bears E. and W.; desc. about 60 ft. over N. slope.
19.40	Head of draw, drains SE.; asc. about 190 ft. over S. slope.
32.30	Ridge, 1.00 ch. wide, bears NE. and SW.; desc. about 180 ft. over NW. slope.
40.00	Point for the ¼ sec. cor. of secs. 21 and 22.
	Set an iron post, 30 ins. long, 2½ ins. diam., 18 ins. in the ground, in a collar of stone to top, with brass cap mkd.
	T20S R18E ¼ S21 | S22 1960
	Desc. about 20 ft. over NW. slope.
48.00	Draw, drains SW.; asc. about 30 ft. over S. slope.
63.80	Spur, projects W.; desc. about 10 ft. over NW. slope.
70.30	Slope changes to N.; desc. about 160 ft.
80.00	Point for the cor. of secs. 15, 16, 21 and 22.
	Set an iron post, 30 ins. long, 2½ ins. diam., 10 ins. in the ground to underlying rock, in a mound of stone, 3½ ft. base to top, with brass cap mkd.
	T20S R18E S16 | S15 S21 | S22 1960
	Land, rolling, broken. Soil, sandy, rocky; Timber, dense pinon and juniper.

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Chains	
	N. 0° 02' W., bet. secs. 15 and 16.
	By triangulation, desc. about 80 ft. over NE. slope.
1.50	Approx. dist. to draw, drains NE.
7.00	Approx. dist. to draw, drains NW.; asc. about 60 ft. over S. slope.
11.00	Approx. dist. to spur, projects W.; desc. about 70 ft. over N. slope.
20.00	Approx. dist. to draw, drains W.; asc. about 100 ft. over S. slope.
27.00	Approx. dist. to spur, projects SW.; desc. about 90 ft. over N. slope.
31.00	Approx. dist. to draw, drains SW.; asc. about 200 ft. over S. slope.
36.84	End of triangulation.
37.80	Ridge, bears E. and W.; desc. about 60 ft. over N. slope.
40.00	Point for the ¼ sec. cor. of secs. 15 and 16.
	Set an iron post, 30 ins. long, 2½ ins. diam., 8 ins. in the ground to underlying rock, in a mound of stone, 3½ ft. base to top, with brass cap mkd.
	T20S R18E ¼ S16 | S15 1960
	By triangulation; desc. about 600 ft. over steep and broken N. slope.
71.00	Approx. dist. to draw, drains NE.
78.00	Approx. dist. to Tusher Creek, drains SW.; asc. about 20 ft. over SE. slope.
80.00	Point for the cor. of secs. 9, 10, 15 and 16.
	Set an iron post, 30 ins. long, 2½ ins. diam., 10 ins. in the ground to underlying rock, in a mound of stone, 4 ft. base to top, with brass cap mkd.
	T20S R18E S 9 | S10 S16 | S15 1960
	Land, mountainous, broken. Soil, sandy, rocky. Timber, pinon and juniper.
	From the cor. of secs. 2, 3, 34 and 35 on the North bdy. of the Tp., hereinbefore described. S. 0° 01' E., bet. secs. 2 and 3.
	Over broken land covered with dense pinon and juniper.
.30	Wash, 10 lks. wide, 6 ft. deep, drains W. about 50 lks., thence drains NW.; asc. about 60 ft. over N. slope.
4.49	Spur, projects W.; desc. about 160 ft. over S. slope.
5.56	Point for the 1/16 sec. cor. of secs. 2 and 3.
	Set an iron post, 30 ins. long, 2½ ins. diam., 8 ins. in the ground to underlying rock, in a mound of stone, 3 ft. base to top, with brass cap mkd.

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Survey of a Portion of the Subdivision of T. 20 S. R. 18 E.

Chains	
	T20S R18E 1/16 S3 | S2 80 1960
	By triangulation.
13.00	Approx. dist. to draw, drains NW.; asc. about 300 ft. over steep N. slope.
26.50	Approx. dist. to head of draw, drains NW.
37.88	End of triangulation.
42.50	Spur, projects SW.; desc. about 20 ft. over SW. slope.
45.56	Point for the ¼ sec. cor. of secs. 2 and 3.
	Set an iron post, 30 ins. long, 2½ ins. diam., 6 ins. in the ground, in a mound of stone, 4 ft. base to top, with brass cap mkd.
	T20S R18E ¼ S3 | S2 1960
	Desc. about 400 ft. over SW. slope, over series of ledges.
56.20	Top of vertical ledge 60 ft. high, bears NW. and SE.
66.80	Top of vertical ledge, 50 ft. high, bears E. and W.; desc. about 330 ft. over S. slope.
84.70	Top of vertical ledge, 50 ft. high, bears E. and W.
85.56	Point for the cor. of secs. 2, 3, 10 and 11.
	Set an iron post, 30 ins. long, 2½ ins. diam., 6 ins. in the ground, in a mound of stone, 4 ft. base to top, with brass cap mkd.
	T20S R18E S2 | S3 S10 | S11 1960
	Land, mountainous, broken. Soil, sandy, rocky. Timber, medium dense pinon and juniper.
	From the cor. of secs. 1, 2, 35 and 36, on the N. bdy. of the Tp, hereinbefore described.
	S. 0° 01' E., bet. secs. 1 and 2.
	Over broken, mountainous land, through medium dense timber.
	Asc. about 20 ft. over N. slope.
1.40	Spur, projects SW., thence by triangulation desc. about 310 ft. over SE. slope.
5.43	Point for the 1/16 sec. cor. of secs. 1 and 2, 60 ft. below spur.
	Set an iron post, 30 ins. long, 2½ ins. diam., 6 ins. in the ground to underlying rock, in a mound of stone, 4 ft. base to top, with brass cap mkd.

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Chains	
	T20S R18E 1/16 S2 | S1 80 1960
28.40	Approx. dist. to wash, drains SW.; thence asc. about 50 ft. over NW. slope.
32.40	Approx. dist. to spur, projects SW.; thence desc. about 100 ft. over SE. slope.
36.40	Approx. dist. to wash, drains W.; thence asc. about 300 ft. over N. slope.
40.37	End of triangulation on ridge, bears E. and W.; thence by triangulation desc. about 360 ft. over S. slope.
45.43	Point for the ¼ sec. cor. of secs. 1 and 2.
	Set an iron post, 30 ins. long, 2½ ins. diam., 6 ins. in the ground to underlying rock, in a mound of stone, 4 ft. base to top, with brass cap mkd. T20S R18E ¼ S2 | S1 1960
51.90	Approx. dist. to Tusher Creek, drains W.; thence asc. about 380 ft. over N. slope.
65.40	Approx. dist. to draw, drains NE.
81.23	End of triangulation on spur, projects W.; thence desc. about 30 ft. over S. slope.
85.43	Point for the cor. of secs. 1, 2, 11 and 12. Set an iron post, 30 ins. long, 2½ ins. diam., 8 ins. in the ground to underlying rock, in a mound of stone, 3½ ft. base to top, with brass cap mkd. T20S R18E. S2 | S1 S11 | S12 1960
	Land, mountainous, broken. Soil, sandy loam, rocky. Timber, pinon and juniper.
	S. 89° 54' W., bet. secs. 2 and 11.
	Over broken mountainous land, through medium timber.
	Desc. about 140 ft. over NW. slope.
7.60	Spur, rpojects NW.; thence by triangulation desc. about 190 ft. over NW. slope.
20.10	Approx. dist. to draw, drains NW.; thence asc. about 150 ft. over NE. slope.
22.10	Approx. dist. to spur, projects N.; thence desc. about 250 ft. over NW. slope.

of a Portion of the Subdivis T. 20 S. R. 18 E.

Chains	
29.60	Approx. dist. to wash, drains NW.; thence desc. about 160 ft. over NW. slope.
36.10	Approx. dist. to Tusher Creek, drains S. 80° W.; thence asc. about 100 ft. over N. slope.
39.10	End of triangulation on spur, projects N.; thence desc. about 20 ft. over NW. slope.
40.03	Point for the ¼ sec. cor. of secs. 2 and 11.
	Set an iron post, 30 ins. long, 2½ ins. diam., 6 ins. in the ground, to underlying rock, in a mound of stone, 3 ft. base to top, with brass cap mkd.
	T20S R18E ¼ S 2 / S11 1960
41.80	Wash, 30 lks. wide, 3 ft. deep, drains S. 80° W.; thence by triangulation asc. about 300 ft. over SE. slope.
47.60	Approx. dist. to wash, drains S.
65.46	End of triangulation and slope changes to S.; asc. about 120 ft. along S. slope.
80.06	The cor. of secs. 2, 3, 10 and 11.
	Land, mountainous, broken. Soil, sandy, rocky. Timber, medium pinon and juniper.
	From the cor. of secs. 15, 16, 21 and 22.
	West, bet. secs. 16 and 21.
	Over rolling land, through dense timber.
	Desc. about 30 ft. along N. slope.
1.00	Draw, drains NE.; asc. about 80 ft. over NE. slope.
6.20	Spur, projects N.; desc. about 40 ft. over N. slope.
9.00	Draw, drains N.; asc. about 30 ft. over NE. slope.
17.00	Spur, projects N.; desc. about 110 ft. over W. slope.
24.00	Draw, drains N.; asc. about 80 ft. over E. slope.
33.60	Spur, projects N.; desc. about 40 ft. over W. slope.
38.00	Draw, drains N.; asc. about 170 ft. over E. slope.
40.00	Point for the ¼ sec. cor. of secs. 16 and 21, 70 ft. above draw.
	Set an iron post, 30 ins. long, 2½ ins. diam., 6 ins. in the ground to underlying rock, in a mound of stone, 4 ft. base to top, with brass cap mkd.
	T20S R18E ¼ S16 / S21 1960

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Chains	
53.00	Spur, projects N.; desc. about 50 ft. along N. slope.
61.00	Head of draw, drains N.; asc. about 20 ft. over E. slope.
72.00	Slope changes to N.; asc. about 20 ft.
80.00	Point for the cor. of secs. 16, 17, 20 and 21.
	Set an iron post, 30 ins. long, 2½ ins. diam., 6 ins. in the ground to underlying rock, in a mound of stone, 4 ft. base to top, with brass cap mkd.
	T20S R18E S17 | S16 S20 | S21 1960
	Land, mountainous, broken. Soil, sandy, rocky. Timber, medium dense pinon and juniper.
	N. 0° 03' W., bet. secs. 16 and 17.
	Over broken land, through medium dense timber.
	Desc. about 650 ft. over broken N. slope.
11.42	Thence by triangulation.
28.00	Approx. dist. to wash, drains NW.
33.91	End of triangulation.
40.00	Point for the ¼ sec. cor. of secs. 16 and 17, 300 ft. above Tusher Creek.
	Set an iron post, 30 ins. long, 2½ ins. diam., 6 ins. in the ground, in a mound of stone, 4 ft. base to top, with brass cap mkd.
	T20S R18E ¼ S17 | S16 1960
	Thence by triangulation.
43.00	Approx. dist. to draw, drains N. 10° W.
50.00	Approx. dist. to Tusher Creek, drains irregularly SW.; asc. about 630 ft. over broken S. slope.
60.00	Approx. dist. to wash, drains S. 10° E.
69.00	Approx. dist. to head of draw, drains SW.
80.00	Point for the cor. of secs. 8, 9, 16 and 17.
	Set an iron post, 30 ins. long, 2½ ins. diam., 8 ins. in the ground, in a mound of stone, 4 ft. base to top, with brass cap mkd.
	T20S R18E S8 | S9 S17 | S16 1960
	Land, mountainous, broken. Soil, sandy, rocky. Timber, medium dense pinon and juniper.

Survey of Portions of the Subdivision, T. 20 S., R. 18 E.

Chains	
	From the cor. of secs. 9, 10, 15 and 16.
	N. 89° 58' W., bet. secs. 9 and 16.
	Over broken land, through medium dense timber.
	Asc. about 70 ft. over SE. slope.
4.60	Spur, projects S.; desc. about 60 ft. over W. slope.
11.90	Draw, drains S. about 3.00 chs. to Tusher Creek; asc. about 260 ft. along S. slope.
27.40	Spur, projects S.; desc. about 60 ft. over W. slope.
36.40	Draw, drains S.; asc. about 200 ft. over SE. slope.
40.01	Point for the ¼ sec. cor. of secs. 9 and 16.
	Set an iron post, 30 ins. long, 2½ ins. diam., 6 ins. in the ground to underlying rock, in a mound of stone, 3½ ft. base to top, with brass cap mkd.
	T20S R18E ¼ S 9/S16 1960
80.02	The cor. of secs. 8, 9, 16 and 17.
	Land, mountainous. Soil, sandy, rocky. Timber, medium dense pinon and juniper.

	From the cor. of secs. 16, 17, 20 and 21.
	West, bet. secs. 17 and 20.
	Over gentle land, through medium dense timber; asc. about 20 ft. over E. slope.
3.00	Spur, projects N.; desc. about 100 ft. along gentle N. slope.
23.31	Intersect the W. bdy. of the Tp. at point for closing cor. of secs. 17 and 20.
	Set an iron post, 30 ins. long, 2½ ins. diam., 8 ins. in the ground to solid rock, in a mound of stone, 3½ ft. base to top, with brass cap mkd.
	T20S R18E S17 C S20 C 1960
	from which,
	The cor. of secs. 13 and 24, T. 20 S., R. 17 E., bears S. 15 lks. dist. and is monumented with an iron post, 2½ ins. diam., set, mkd. and witnessed as described in the field notes of the E. bdy. of T. 20 S., R. 17 E., executed concurrently under this same
	Land, rolling. Soil, sandy, rocky. Timber, medium dense pinon and juniper.

Chains	
	From the standard cor. of secs. 32 and 33, on the S. bdy. of the Tp., T. 20 S., R. 18 E., identical with cor. of secs. 32 and 33, T. 20½ S. R. 18 E., hereinbefore described.
	N. 0° 03' W., bet. secs. 32 and 33.
	Over broken land, through medium dense timber.
	By triangulation asc. about 800 ft. over abrupt S. slope.
27.40	Top of vertical ledge, 50 ft. high, bears E. and W.
27.48	End of triangulation.
32.80	Top of vertical ledge, 30 ft. high, bears NW. and SE.; desc. about 30 ft. over N. slope.
40.00	Point for the ¼ sec. cor. of secs. 32 and 33.
	Set an iron post, 30 ins. long, 2½ ins. diam., 6 ins. in the ground to solid rock, in a mound of stone, 3½ ft. base to top, with brass cap mkd.
	T20S R18E ¼ S32 | S33 1960
	Thence asc. about 30 ft. over S. slope.
50.10	Spur; projects W.; thence desc. about 100 ft. over NW. slope.
60.00	Head of draw, drains SW.; asc. about 150 ft. over SE. slope.
80.00	Point for the cor. of secs. 28, 29, 32 and 33.
	Set an iron post, 30 ins. long, 2½ ins. diam., 8 ins. in the ground to solid rock, in a mound of stone, 3½ ft. base to top, with brass cap mkd.
	T20S R18E S29 | S28 S32 | S33 1960
	Land, broken. Soil, sandy, rocky. Timber, medium dense pinon and juniper.
	West, bet. secs. 29 and 32.
	Over mountainous land, through medium dense timber; desc. about 10 ft. over SW. slope.
10.00	Slope changes to W.; desc. about 120 ft.
23.28	Intersect the W. bdy. of the Tp. at point for closing cor. of secs. 29 and 32.
	Set an iron post, 30 ins. long, 2½ ins. diam., 12 ins. in the ground to solid rock, in a mound of stone, 3½ ft. base to top, with brass cap mkd.

Survey of a Portion of the Subdivision of T. 20 S., R. 18 E.

Chains

T20S
R18E
S29 C
S32 C
1960

from which,

The cor. of secs. 25 and 36, T. 20 S., R. 17 E., bears N. 0° 03' W., 20 lks. dist. and is monumented with a 2½ ins. iron post, set, mkd. and witnessed as described in the field notes of the E. bdy. of T. 20 S., R. 17 E., executed concurrently under the present survey group.

Land, mountainous.
Soil, sandy, rocky.
Timber, medium dense pinon and juniper.

GENERAL DESCRIPTION

T. 20 S., R. 18 E. is broken, mountainous land located in the Book Cliffs northeast of the town of Green River, Utah, and varies in elevation from 6,000 feet to 8,600 feet above sea level.

Tusher Creek and numerous side canyons drain the are in a southwesterly direction.

There is no permanent source of water in the township.

A jeep trail follows Tusher Creek and is the only road in the area. Timber consists of dense pinon and juniper. The soil is rocky, sandy, with sandstone outcroppings.

U. S. GOVERNMENT PRINTING OFFICE: 16—26330-2

4-000
(Feb., 1960)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FIELD ASSISTANTS

NAMES	CAPACITY
A. D. Griffin	Crew Chief, Notekeeper
[illegible] G. [illegible]	Chainman
[illegible] T. [illegible] t	Chainman
[illegible]	Transitman
[illegible]	Flagman
[illegible]	Cornerman
[illegible]	Crew Chief, Notekeeper
[illegible] Shurt	Chainman
W[illegible] R[illegible]	Transitman
[illegible]	Flagman
P[illegible]	Cornerman
[illegible]	Axeman

16—88565-2

32

CERTIFICATE OF CADASTRAL ENGINEER

I, George D. Voorhees, HEREBY CERTIFY upon honor that, in pursuance of special instructions bearing date of the 11th day of February, 1960 I have ~~surveyed~~ supervised the dependent resurvey of a portion of the west boundary of T. 20 S., R. 19 E., with establishment of corners for the east boundary of T. 20 S., R. 18 E. and the survey of a portion of the east boundary, the south boundary (Fourth Standard Parallel South), the north boundary and a portion of the subdivision of T. 20 S., R. 18 E.

of the Salt Lake Meridian, in the State of Utah, which are represented in the foregoing field notes as having been executed ~~xxxxxxx~~ under my direction; and that said 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.

August 1, 1961

George D. Voorhees
Cadastral Surveyor

CERTIFICATE OF APPROVAL

BUREAU OF LAND MANAGEMENT,
Washington, D. C., JUN 25 1962, *19*

The foregoing field notes of the ~~survey of~~ dependent resurvey of portion of W. bdy., T. 20 S., R. 19 E., with establishment of corners for E. bdy. T. 20 S., R. 18 E. and survey of portion of E. bdy., S. bdy., (Fourth Standard Parallel South), N. bdy. and portion of subdivision of T. 20 S., R. 18 E., Salt Lake Meridian, Utah

executed by A. D. Griffin and Glen B. Hatch, Cadastral Surveyors, under the supervisision of George D. Voorhees, Cadastral Surveyor
having been critically examined and found correct, are hereby approved.

~~Cadastral Engineering Staff Officer~~
Chief, Division of Engineering

CERTIFICATE OF TRANSCRIPT

~~I CERTIFY that the foregoing transcript of the field notes of the above-described surveys in T. 20 S~~ R. 18 E., SLM, Utah, is a true copy of the original ~~field notes.~~

~~Cadastral Engineering Staff Officer.~~

U. S. GOVERNMENT PRINTING OFFICE 16—63665-6

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

ORIGINAL

FIELD NOTES

OF THE

SURVEY

OF THE

SUBDIVISION

OF

TOWNSHIP 20½ SOUTH, RANGE 18 EAST

Of the Salt Lake *Meridian,*

the State of Utah

EXECUTED BY

Glen B. Hatch, Cadastral Surveyor

A. D. Griffin, Cadastral Surveyor

Under the Superivison of George D. Voorhees, Cadastral Surveyor

nder special instructions dated February 11 , *19* 60 , *which provided*

or the surveys included under Group No. 399 , *approved* February 23, 1960

assignment instructions dated April 14 and July 1 , *19* 60

Survey commenced September 2 , *19* 60

Survey completed May 16 , *19* 61

U. S. GOVERNMENT PRINTING OFFICE 16 84710-1

INDEX DIAGRAM

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16—56770-1

Township 20½ South, Range 18 East

Chains

The east boundary of T. 20½ S., R. 18 E. was surveyed by Moore and Bandy in 1924. The south and west boundaries were surveyed by C. F. Moore in 1931. A portion of the north boundary was originally surveyed by J. T. Breckon in 1907. This portion of the north boundary was dependently resurveyed by Glen B. Hatch in connection with T. 20 S., R. 17 E. The remainder of the north boundary was surveyed by Glen B. Hatch concurrently with T. 20 S., R. 18 East in 1960. The subdivisional line between sections 35 and 36 was surveyed by Glen B. Hatch in 1960, and the remainder of the subdivision was surveyed by A. D. Griffin in 1960.

The following field notes are those of the survey of the subdivision of T. 20½ S., R. 18 E.

The survey was executed with two W. & L. E. Gurley solar transits Nos. 580158 and 541330, constructed in accordance with the standard instrumental specifications of the Bureau of Land Management. The instrument was in good condition prior to the beginning of the survey and was maintained in proper adjustment throughout the progress of this survey.

Lines connecting previously established corners were run by random and true method, but for simplification of the record the random lines are omitted from the field notes.

Measurements herein contained were made with narrow steel tapes, 8 chains in length, graduated every link for the first 100 links and thereafter at intervals of 10 links. The tapes were tested by comparison with a one chain standard steel tape and found to be correct. Measurements were made on the slope with the vertical angle of each interval ascertained by clinometers in good adjustment; horizontal equivalents alone are entered in the field notes. All lines of this survey were run by direct method where the lines were accessible; lines inaccessible were run by traverse or triangulation methods. Distances to topography on lines run by traverse or triangulation are approximately as scaled from S. C. S. planimetric maps. The details of such traverses or triangulations have been thoroughly checked and verified and in order to simplify the record the diagrams and reductions are omitted from these field notes.

The direction of the lines of this survey were determined by reference to true meridians established on line by hour angle observations on Polaris or altitude observations on the sun. The lines were carried forward by sustained angulation being supplemented by other numerous altitude observations on the sun taken throughout the progress of the survey.

The geographic position for the southeast corner of the township is at latitude 39° 00' 56.04" N. and longitude 109° 52' 18.11" W., as determined from traverse to U. S. G. S. triangulation station "Floy" which bears N. 36° 45' W., 45.29 chains dist. from the corner of sections 35 and 36, T. 20½ S., R. 18 E., The geographic position of this station is at latitude 39° 01' 19.70" N. and longitude 109° 53' 47.66" W.

The magnetic declination was read at a number of stations throughout the township and the average of these readings was found to be 15°30'E.

Survey of the Subdivision of T. 20½ S., R. 18 E.

Beginning at the cor. of secs. 35 and 36 on the S. bdy. of the Tp., monumented with an iron post, 2 ins. diam., set, mkd. and witnessed as described in the official record.

U. S. GOVERNMENT PRINTING OFFICE 16—28580-2

of the Subdivision of T. 20½ S. R. 18 E.

Chains	
	N. 0° 07' E., bet. secs. 35 and 36.
	Over mountainous, broken land, through scattered timber.
	By triangulation, asc. about 60 ft. over SE. slope.
10.30	Approximate dist. to spur, projects S. 70° E.; desc. about 30 ft. over SW. slope.
14.20	Approximate dist. to ravine, drains S. 40° E.; asc. about 150 ft. over SW. slope.
37.20	Approximate dist. to spur, projects W.; desc. about 30 ft. along W. slope.
40.00	Point for the ¼ sec. cor. of secs. 35 and 36.
	Set an iron post, 30 ins. long, 2½ ins. diam., 14 ins. in the ground to solid rock, in a mound of stone, 3 ft. base to top, with brass cap mkd.
	T20½S R18E ¼ S35 | S36 1960
	Cont. by triangulation.
42.20	Approximate dist. to wash, 10 lks. wide, 1 ft. deep, drains S. 5° W.; asc. about 330 ft. over steep, broken SE. slope.
62.82	End of one triangulation on spur projecting E., beginning of another triangulation; desc. 100 ft. over broken NE. slope.
81.70	Approximate dist. to ravine, drains S. 80° E.; asc. about 90 ft. over steep and broken SE. slope.
84.24	The standard cor. of secs. 35, 36, 35 and 36, on the N. bdy. of the Tp., which is monumented with an iron post, 2½ ins. diam., set, mkd. and witnessed as described in the field notes of the 1960 survey of the Fourth Standard Parallel South, R. 18 E.
	Land, mountainous, broken. Soil, rocky clay. Timber, scattered pinon and juniper.

	From the cor. of secs. 34 and 35, on the S. bdy. of the Tp., monumented with a 2 in. iron post, set, mkd. and witnessed as described in the official record.
	N. 0° 01' E., bet. secs. 34 and 35.
	Over broken, mountainous land, through scattered timber.
	Asc. 80 ft. over SW. slope.
5.70	Top of ascent, projects W.; desc. 30 ft. over NW. slope.
14.10	Wash, 10 lks. wide, 2 ft. deep, drains SW.; asc. 200 ft. over S. slope.
26.50	Spur, projects W.; beginning of triangulation; desc. about 410 ft. over NW. slope.
40.00	Point for the ¼ sec. cor. of secs. 34 and 35, 260 ft. below spur.
	Set an iron post, 30 ins. long, 2½ ins. diam., 3 ins. in the ground

Chains	
	to solid rock, in a mound of stone, 3½ ft. base to top, with brass cap mkd. T20½S R18E ¼ S34 | S35 1960
	Cont. by triangulation.
45.00	Approx. dist. to ravine, drains S. 65° W.; asc. about 420 ft. over broken SW. slope.
61.73	End of triangulation on top of ledge, 60 ft. high, bears E. and W.; beginning of another triangulation; desc. about 560 ft. over steep and broken NW. slope.
84.38	The standard cor. of secs. 34, 35, 34 and 35, on the N. bdy. of the Tp., which is monumented with an iron post, 2½ ins. diam., set, mkd. and witnessed as described in the 1960 field notes of the Fourth Standard Parallel South, R. 18 E.
	Land, mountainous, broken. Soil, rocky clay. Timber, scattered pinon and juniper.
	From the cor. of secs. 33 and 34, on the S. bdy. of the Tp., monumented with a 2 ins. iron post, set, mkd. and witnessed as described in the official record.
	N. 0° 07' E., bet. secs. 33 and 34.
	Over mountainous land, through scattered timber; asc. 20 ft. over S. slope.
1.70	Spur, projects SW.; desc. 30 ft. over NW. slope.
7.50	Asc. 30 ft. over SE. slope.
7.70	Ridge, bears NE. and SW.; desc. 30 ft. over NW. slope.
9.00	Wash, drains SW.; asc. 120 ft. over SE. slope.
20.40	Top of ascent; desc. 30 ft. over N. slope.
26.80	Wash, drains W.; asc. 80 ft. over S. slope.
40.00	Point for the ¼ sec. cor. of secs. 33 and 34.
	Set an iron post, 30 ins. long, 2½ ins. diam., 6 ins. in the ground to solid rock, in a mound of stone, 4 ft. base to top, with brass cap mkd. T20½S R18E ¼ S33 | S34 1960
	Beginning of triangulation.
44.60	Approx. dist. to spur, projects E.; desc. about 150 ft. over NE. slope.
57.60	Approx. dist. to draw, drains SE.; asc. about 100 ft. over SW. slope.
61.50	Approx. dist. to spur, projects SE.; desc. about 120 ft. over NE. slope.
72.60	Approx. dist. to draw, drains SE.; asc. about 110 ft. over broken ledges

Survey of the Subdivision of T. 20½ S., R. 18 E.

Chains	
84.56	The standard cor. of secs. 33, 34, 33 and 34, on the N. bdy. of the Tp., which is monumented with an iron post, 2½ ins. diam., set, mkd. and witnessed as described in the 1960 field notes of the Fourth Standard Parallel South, R. 18 E. Land, mountainous. Soil, rocky clay. Timber, scattered pinon and juniper.
	From the cor. of secs. 32 and 33 on the S. bdy. of the Tp., monumented with a 2 ins. iron post, set, mkd. and witnessed as described in the official record. N. 0° 08' W., bet. secs. 32 and 33. Over mountainous, broken land, through widely scattered timber. Asc. 180 ft. over gentle SE. slope of basin.
4.30	Wash, 30 lks. wide, 3 ft. deep, drains E.
10.50	Wash, 30 lks. wide, 6 ft. deep, drains SE.
24.40	Wash, 30 lks. wide, 3 ft. deep, drains SW. about 1.00 ch., thence SE.; asc. 370 ft. over SW. slope.
40.00	Point for the ¼ sec. cor. of secs. 32 and 33. Set an iron post, 30 ins. long, 2½ ins. diam., 6 ins. in the ground to solid rock, in a mound of stone, 3½ ft. base to top, with brass cap mkd. T20½S R18E ¼ S32 | S33 1960
45.30	Spur, projects SE., beginning of triangulation; desc. about 100 ft. over NE. slope.
70.40	Approx. dist. to head of draw, drains E.; asc. about 200 ft. over broken ledges on SE. slope.
75.80	Approx. dist. to top of ascent; desc. about 250 ft. over N. slope.
83.40	Approx. dist. to wash, drains SE.; asc. about 20 ft. over S. slope.
84.41	The cor. of secs. 32, 33, 32 and 33, on the N. bdy. of the Tp., which is monumented with a 2½ ins. iron post, set, mkd. and witnessed as described in the 1960 field notes of the Fourth Standard Parallel South, R. 18 E. Land, mountainous, broken. Soil, rocky clay. Timber, widely scattered scrub juniper and pinon.
	From the cor. of secs. 31 and 32, on the S. bdy. of the Tp., monumented with a 2 ins. iron post, set, mkd. and witnessed as described in the official record. N. 0° 03' W., bet. secs. 31 and 32. Over broken land, through scattered timber.

U. S. GOVERNMENT PRINTING OFFICE 16—38830-2

Chains	
	By triangulation, asc. about 400 ft. over broken ledges on steep SW. slope.
24.80	Top of ledge, 20 ft. high, bears NW. and SE.; desc. 180 ft. along E. slope.
36.60	Slope changes to NW.
40.00	Point for the ¼ sec. cor. of secs. 31 and 32.
	Set an iron post, 30 ins. long, 2½ ins. diam., on solid sandstone, in a mound of stone, 5 ft. base to top, with brass cap mkd.
	T20½S R18E ¼ S31 | S32 1960
44.00	Wash, 20 lks. wide, 2 ft. deep, drains N. 30° E.; asc. 10 ft. along E. slope.
49.60	Spur, projects N. 45° E.; desc. 50 ft. over NW. slope.
51.60	Wash, 10 lks. wide, 2 ft. deep, drains N. 45° E.; asc. 40 ft. over SE. slope.
57.50	Spur, projects N. 30° E.; desc. 60 ft. over low rolling spurs projecting NE.
63.70	Spur, projects N. 30° E.; desc. 40 ft. over NW. slope.
68.20	Wash, 10 lks. wide, 1 ft. deep, drains N. 70° E.; asc. 30 ft. over SE. slope.
70.60	Spur, projects N. 60° E.; desc. 30 ft. along E. slope.
72.10	Slope changes to W.; desc. 110 ft. along W. slope.
81.40	Spur, projects N. 80° E.; desc. 80 ft. over N. slope.
84.11	Intersect the S. bdy. of T. 20 S., R. 17 E. (Fourth Standard Parallel South) at point for closing cor. of secs. 31 and 32.
	Set an iron post, 30 ins. long, 2½ ins. diam., 10 ins. in the ground to solid rock, in a mound of stone, 3 ft. base to top, with brass cap mkd.
	T20S R17E S36 S31 | S32 C C T20½S R18E 1960
	From this cor. the standard ¼ sec. cor. of sec. 36, T. 20 S.,R. 17 E., bears S. 89° 51' E., a dist. of 16.65 chs. and is monumented with a 2½ in. iron post, set, mkd. and witnessed as described in the 1960 field notes of the Fourth Standard Parallel South, R. 17 E.
	Land, broken S. 40.00 chs.; rolling N. 44.00 chs. Soil, rocky clay. Timber, scattered pinon and juniper.
	At midpoint on the N. bdy. of sec. 32 and on the Fourth Standard Parallel South.

U.S. GOVERNMENT PRINTING OFFICE 16—38530-2

of the Subdivision of T. S. R. E.

Chains

Point for the N. ¼ sec. cor. of sec. 32.

Set an iron post, 30 ins. long, 2½ ins. diam., 10 ins. in the ground, in a mound of stone, 3½ ft. base to top, with brass cap mkd.

T20S R17E

¼ S32
T20½S R18E
1960

From this point the standard cor. of Tps. 20 S., Rs. 17 and 18 E., bears E. 16.67 chs. dist. and is monumented by an iron post 2½ ins. diam., set, mkd. and witnessed as described in the field notes of T. 20 S., R. 17 E., surveyed concurrently under this same group.

At a point 40.00 chs. westing from the closing cor. of secs. 31 and 32, on the Fourth Standard Parallel South, point for the N. ¼ sec. cor. of sec. 31

Set an iron post, 30 ins. long, 2½ ins. diam., 10 ins. in the ground, in a mound of stone, 4 ft. base to top, with brass cap mkd.

T20S R17E

¼ S31
T20½S R18E
1960

From this point the standard cor. of secs. 35 and 36 bears S. 89° 56' E., 13.92 chs. dist. and is monumented with a 2½ in. iron post, set, mkd. and witnessed as described in the field notes of T. 20 S.,R.17 E., surveyed concurrently under this same group.

General Description

T. 20½ S., R. 18 E. is mountainous. broken land with a general drainage in a southerly direction but by numerous ravines and washes.

Elevations vary from 5,000 to 6,800 feet above sea level. There is no water in the township and there are no roads. Timber consists of scrub juniper and pinon.

The soil is mostly rocky clay in the southern part and rocky sandy loam with considerable exposed sandstone in the north.

Triangulation station "Floy" is located in sec. 35, and is at latitude 39° 01' 19.70" N. and longitude 109° 53' 47.66" W.

U. S. GOVERNMENT PRINTING OFFICE 16—88820-2

4-000
(Feb., 1960)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FIELD ASSISTANTS

NAMES	CAPACITY
Glen B. Hatch	Crew Chief
Gary W. Rutledge	Transitman
Wallace R. Ott	Chainman
Gordon Shurtz	Chainman
Wayne Fisher =	Flagman
Parley Pratt =	Cornerman
A. D. Griffin	Crew Chief
Rex J. Edwards	Transitman
Douglas G. Haycock	Chainman
Gary T. Oviatt	Chainman
T. J. Morish	Cornerman
Max Asay	Flagman

16—53565-2

42

CERTIFICATE OF CADASTRAL ENGINEER

I, George D. Voorhees, HEREBY CERTIFY upon honor that, in pursuance of special instructions bearing date of the 11th day of February, I have ~~surveyed~~ supervised the survey of the subdivision of T. 20½ S., R. 18 E.

of the Salt Lake Meridian, in the State of Utah, which are represented in the foregoing field notes as having been executed ~~by~~ under my direction; and that said survey has been made in strict conformity with said instructions, the Manual of Instructions for Survey of the Public Lands of the United States, and in the specific manner described in the field notes.

Salt Lake City, Utah

August 3, 1961

D. Voorhees

CERTIFICATE OF APPROVAL

BUREAU OF LAND MANAGEMENT,

Washington, D. C., JUN 25 1962, *19*

The foregoing field notes of the survey of of the subdivision of T. [illegible] S. R. 18 E. Salt Lake Meridian, Utah

executed by A. D. Griffin and Glen B. Hatch Cadastral Surveyors, under the s[illegible] of George D. Voorhees having been critically examined and found correct, are hereby approved.

Chief, Division of Engineering

I CERTIFY that the fo[illegible]ipt of the field notes of the above-described surveys in [illegible], is a true copy of the [illegible] notes.

U. S. GOVERNMENT PRINTING OFFICE 16—[illegible]

4—GTP
(September 1948)

43

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

Bureau of Land Management
RECEIVED
COMMUNICATIONS SECTION
APR 27 1962
A.M. 7 8 9 10 11 12 1 2 3 4 5 6 P.M.

ORIGINAL

FIELD NOTES

OF THE

SURVEY

OF THE EAST BOUNDARY

AND A PORTION OF THE SUBDIVISION

OF

TOWNSHIP 17 SOUTH, RANGE 22 EAST

Of the Salt Lake *Meridian,*

the State of Utah

EXECUTED BY

George D. Voorhees, Cadastral Surveyor (Chief of Party)

Alburn D. Griffin, Cadastral Surveyor

der special instructions dated September 15, *19* 58, *which provided*

the surveys included under Group No. 402, *approved* September 30, 1958

assignment instructions dated April 14, *19* 60

Survey commenced May 24, *19* 60

Survey completed July 26, *19* 60

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GPO 866110

45

Township 17 South, Range 22 East

Chains

The west boundary of T. 17 S., R. 22 E., was surveyed by J. C. Clark and W. H. Good in 1921. The north boundary was surveyed by J. C. Clark in 1922. The south boundary was surveyed concurrently by E. W. Sibley and G. B. Hatch, and is included in the field notes of T. 18 S., R. 22 E.

The following field notes are those of the survey of the east boundary and a portion of the subdivisional lines of T. 17 S., R. 22 E., deemed sufficient in extent to facilitate development of the natural resources and mark the boundaries of the state school sections. Original corners on the north and west boundaries are remarked and no longer function for T. 17 S., R. 22 E.

The survey was executed with a W. & L. E. Gurley solar transit No. 541330 constructed in accordance with the standard instrumental specifications of the Bureau of Land Management. The instrument was in good condition prior to the beginning of the survey and was maintained in proper adjustment throughout the progress of this survey.

Corners on east-west lines were set on the true latitudinal curve. Lines connecting previously established corners were run by random and true method, but for simplification of the record the random lines are omitted from the field notes. In accordance with the intent of the special instructions all subdivisional corners established are calculated to be at the position they would occupy if the entire township were subdivided.

Measurements herein contained were made with a narrow steel tape, 8 chains in length, graduated every link for the first 100 links and thereafter at intervals of 10 links. The tape was tested by comparison with a one-chain standard steel tape and found to be correct. Measurements were made on the slope with the vertical angle of each interval ascertained by a clinometer in good adjustment; horizontal equivalents alone are entered in the field notes. All lines of this survey were run by direct method where the lines were accessible; lines inaccessible were run by traverse or triangulation methods. The details of such traverses or triangulations have been thoroughly checked and verified, and in order to simplify the record the diagrams and reductions are omitted from these field notes.

The direction of the lines of this survey was determined by reference to true meridians established on line by hour angle observations on Polaris or altitude observations on the sun. The lines were carried forward by sustained angulation being supplemented by other numerous altitude observations on the sun taken throughout the progress of the survey.

The geographic position for the southeast corner of the township is at latitude 39° 16' 38.4" N. and longitude 109° 25' 28.0" W. as adjusted from traverses to U. S. C. & G. S. triangulation stations within the area.

The magnetic declination was read at a number of stations throughout the township and the average of these readings was found to be 15°30' East.

Survey of the East Boundary of T. 17 S., R. 22 E.

Beginning at the cor. of Tps. 17 and 18 S., Rs. 22 and 23 E., monumented with a 2½ in. iron post, set, mkd. and witnessed as described in the 1960 field notes of the E. bdy. of T. 18 S., R.22 E.

North, bet. secs. 31 and 36.

U. S. GOVERNMENT PRINTING OFFICE 16—28530-2

Survey, E. Bdy. T. 17 S., R. 22 E.

Chains	
	Over mountainous land, through medium timber.
	Asc. 20 ft. along E. slope.
12.80	Top of ascent; desc. 300 ft. along steep E. slope.
29.80	Wash, 40 lks. wide, 3 ft. deep, drains NW.; asc. 50 ft. over SW. slope.
37.90	Spur, projects W.; desc. 20 ft. over NW. slope.
40.00	Point for the ¼ sec. cor. of secs. 31 and 36 falls on ledge, 30 ft. high, bears N. 20° W. and S. 20° E., where cor.cannot be perpetuated.
41.30	Point selected for the witness ¼ sec. cor. of secs. 31 and 36.
	Set an iron post, 30 ins. long, 2½ ins. diam., 10 ins. in the ground and in a mound of stone, 4 ft. base to top of post, with brass cap mkd. T17S R22E R23E ¼ S36 | S31 W C 1960
	Asc. 140 ft. over S. slope.
47.90	Top of ascent, projects W.; desc. 180 ft. over NW. slope.
58.60	Wash, 40 lks. wide, 4 ft. deep, drains W.
69.20	Draw, drains NW.
71.30	Wash, 10 lks. wide, 1 ft. deep, drains NW.; asc. 30 ft. over S.slope.
72.80	Spur, projects W.; desc. 50 ft. over NW. slope.
80.00	Point for the cor. of secs. 25, 30, 31 and 36.
	Set an iron post, 30 ins. long, 2½ ins. diam., 20 ins. in the ground and in a collar of stone; brass cap mkd. T17S R22E R23E S25 | S30 S36 | S31 1960
	From this cor. a well, Sun Ray Midcontinent Oil Co., Diamond Ridge Unit No. 3, bears N. 45° 54' W., 33.59 chs. dist.
	Land, mountainous. Soil, sandy, rocky. Timber, medium dense pinon and juniper.

	North, bet. secs. 25 and 30.
	Over mountainous land, through medium timber.
	Desc. 340 ft. over NW. slope.
29.30	Road, unimproved, bears SW. and NE.

U. S. GOVERNMENT PRINTING OFFICE 16—28820-2

Survey, E. Bdy., T. 17 S., R. 22 E.

Chains	
29.50	Wash, 10 lks. wide, 1 ft. deep, drains SE.; asc. 220 ft. over S. slope.
33.10	Wash, 30 lks. wide, 3 ft. deep, drains SE.
40.00	Point for the ¼ sec. cor. of secs. 25 and 30. Set an iron post, 30 ins. long, 2½ ins. diam., 8 ins. in the ground and in a mound of stone, 4 ft. base to top of post, with brass cap mkd. T17S R22E R23E ¼ S25 | S30 1960
	Asc. 40 ft. over SE. slope.
48.70	Ridge, bears SW. and NE.; desc. 10 ft. over gentle N. slope.
52.40	Draw, drains SE.; asc. 40 ft. over SE. slope.
59.80	Spur, projects SE.; desc. 200 ft. over NE. slope.
80.00	Point for the cor. of secs. 19, 24, 25 and 30. Set an iron post, 30 ins. long, 2½ ins. diam., 12 ins. in the ground and in a mound of stone, 3½ ft. base, to top of post, with brass cap mkd. T17S R22E R23E S24 | S19 S25 | S30 1960
	Land, mountainous. Soil, sandy, rocky. Timber, medium dense pinon and juniper.

	North, bet. secs. 19 and 24.
	Over broken land, through medium timber.
	Desc. 70 ft. over N. slope.
5.10	Draw, drains SE.; asc. 90 ft. over S. slope.
11.80	Spur, projects E.; thence by triangulation, desc. about 210 ft. over N. slope.
25.00	Approximate dist. to road, bears E. and W., in bottom of canyon, drains E.; asc. about 280 ft. over SW. slope.
40.00	Point for the ¼ sec. cor. of secs. 19 and 24 falls on broken ledges, 50 ft. high, bears E. and W. where cor. cannot be perpetuated.
44.30	Point selected for the witness ¼ sec. cor. of secs. 19 and 24. End of triangulation.

T. 17 S., R. 22 E.

Chains	
	Set an iron post, 30 ins. long, 2½ ins. diam., 6 ins. in the ground and in a mound of stone, 4 ft. base to top of post, with brass cap mkd.
	T17S R22E R23E ¼ S24 | S19 W C 1960
	Asc. 200 ft. over SW. slope.
46.30	Ridge, bears NW. and SE.; desc. 180 ft. over NE. slope.
60.00	Junction of two washes, drains SE.; asc. 240 ft. over S. slope.
70.60	Spur, projects E.; desc. 100 ft. over NE. slope.
75.10	Point selected for the witness cor. of secs. 13, 18, 19 and 24.
	Set an iron post, 30 ins. long, 2½ ins. diam., 6 ins. in the ground and in a mound of stone, 4 ft. base to top of post, with brass cap mkd.
	T17S R22E R23E WC S13 | S18 S24 | S19 1960
80.00	Point for the cor. of secs. 13, 18, 19 and 24 falls on ledges bearing SE. and NW., where cor. cannot be perpetuated.
	Land, mountainous. Soil, sandy, rocky. Timber, medium dense pinon and juniper.
	North, bet. secs. 13 and 18.
	Over broken land, through medium timber.
	By triangulation, desc. about 80 ft. over NE. slope.
2.00	Approximate dist. to wash in bottom of canyon, drains SE.; asc. about 370 ft. over steep SW. slope.
23.80	Spur, projects S. 20° E.; asc. 100 ft. along E. slope. End of triangulation.
40.00	Point for the ¼ sec. cor. of secs. 13 and 18 falls on ledges bearing NW. and SE., where cor. cannot be perpetuated.
42.00	Point selected for the witness ¼ sec. cor. of secs. 13 and 18.
	Set an iron post, 30 ins. long, 2½ ins. diam., 6 ins. in the ground and in a mound of stone, 4 ft. base to top of post, with brass cap mkd.

Survey, G. L. Bdy., T. 17 S., R. 22 E.

Chains	
	T17S R22E R23E ¼ S13 S18 W C 1960
	Desc. about 30 ft. over NE. slope, by triangulation.
44.50	Approximate dist. to head of draw, drains SE.; asc. about 60 ft. over SE. slope.
49.50	Approximate dist. to spur, projects E.; desc. about 200 ft. over NE. slope.
71.50	Approximate dist. to draw, drains SE.; asc. about 350 ft. over broken S. slope.
80.00	Point for the cor. of secs. 7, 12, 13 and 18 falls on ledges where cor. cannot be perpetuated.
	Land, mountainous, broken. Soil, shallow sand, exposed sandstone. Timber, medium dense pinon and juniper.
	North, bet. secs. 7 and 12.
	Asc. abruptly about 250 ft. over broken S. slope.
10.40	Spur, projects E.
10.45	Point selected for the witness cor. of secs. 7, 12, 13 and 18.
	Set an iron post, 30 ins. long, 2½ ins. diam., 10 ins. in the ground and in a mound of stone, 4 ft. base to top of post, with brass cap mkd.
	T17S R22E R23E S12 S 7 S13 S18 W C 1960
	Thence by triangulation; desc. about 1,000 ft. over steep NW. slope.
18.50	Approximate dist. to draw, drains NW.; asc. about 500 ft. over SW. slope.
39.90	Spur, projects NW.; end of triangulation.
40.00	Point for the ¼ sec. cor. of secs. 7 and 12.
	Set an iron post, 30 ins. long, 2½ ins. diam., 4 ins. in the ground and in a mound of stone, 3½ ft. base to top of post, with brass cap mkd.
	T17S R22E R23E ¼ S12 S 7 1960

E. Bdy. T. 17 S. R.

Chains	
	Desc. about 400 ft. over N. slope, by triangulation.
61.00	Approximate dist. to wash, in bottom of canyon, drains S. 20° E.; asc. about 100 ft. over abrupt S. slope.
63.00	Top of ledge, bears NW. and SE.; asc. 300 ft. over steep S. slope. End of triangulation.
72.70	Spur, projects SE.; desc. 50 ft. over NE. slope.
80.00	Point for the cor. of secs. 1, 6, 7 and 12.
	Set an iron post, 30 ins. long, 2½ ins. diam., 10 ins. in the ground and in a mound of stone, 3½ ft. base to top of post, with brass cap mkd.
	T17S R22E R23E S 1 | S 6 S12 | S 7 1960
	Land, mountainous, broken. Soil, shallow sand, exposed sandstone. Timber, medium dense pinon and juniper.
	North, bet. secs. 1 and 6.
	Over broken land, through medium timber.
	Desc. 10 ft. over NE. slope.
2.40	Head of draw, drains SE.; asc. 220 ft. over broken ledges bearing irregularly NE. and SW.
11.30	Spur, projects E.; thence by triangulation, desc. about 400 ft. over NE. slope.
31.50	Approximate dist. to draw, drains SE.; asc. about 500 ft. over steep SW. slope.
40.00	Point for the ¼ sec. cor. of secs. 1 and 6 falls in an unsafe position on face of ledge.
46.14	Point selected for the witness ¼ sec. cor. of secs. 1 and 6.
	Set an iron post, 30 ins. long, 2½ ins. diam., 8 ins. in the ground and in a mound of stone, 3 ft. base to top of post, with brass cap mkd.
	T17S R22E R23E ¼ S 1 S 6 W C 1960
47.70	Spur, projects SE.; cont. by triangulation; desc. about 400 ft. over NE. slope.
68.50	Approximate dist. to trail road, bears SE. and NW., in bottom of canyon, drains SE.; asc. about 420 ft. over S. slope.
77.62	End of triangulation.

U.S. GOVERNMENT PRINTING OFFICE : 16-25800-2

Chains	
84.94	Intersect the S. bdy. of T. 16 S., R. 23 E.
	Point for the closing cor. of secs. 1 and 6
	Set an iron post, 30 ins. long, $2\frac{1}{2}$ ins. diam., 6 ins. in the ground and in a mound of stone, 5 ft. base to top of post, with brass cap mkd.

T16S R23E
S31
S 1 | S 6
C C
R22E R23E
T17S
1960

from which

The cor. of Tps. 16 S., Rs. 22 And 23 E., described in the record of the retracement of the S. bdy. of T. 16 S., R. 23 E. executed concurrently with the present work bears W. 25.40 chs. and is recorded in the field notes of T. 17 S., R. 23 E., The $\frac{1}{4}$ sec. cor. of secs. 6 and 31, monumented with a 1 in. iron post, set, mkd. and witnessed as described in the official record, bears E., 12.24 chs. This cor. was remarked for sec. 31, T. 16 S., R. 23 E. only.

Land, mountainous, broken.
Soil, shallow sand, exposed sandstone.
Timber, medium dense pinon and juniper.

Survey of a Portion of the Subdivision of T. 17 S., R. 22 E.

From the cor. of secs. 1, 2, 35 and 36 on the S. bdy. of the Tp., monumented with a $2\frac{1}{2}$ in. iron post, set, mkd. and witnessed as described in the 1960 field notes of the N. bdy. of the Tp.,18 S., R. 22 E.

N. 0° 01' W., bet. secs. 35 and 36.

Over mountainous land, through medium timber

Asc. 80 ft. along steep W. slope.

9.00	Slope changes to SW.; asc. 130 ft.
17.50	Spur, projects W.; desc. 440 ft. over steep N. slope.
40.00	Point for the $\frac{1}{4}$ sec. cor. of secs. 35 and 36.
	Set an iron post, 30 ins. long, $2\frac{1}{2}$ ins. diam., 6 ins. in the ground and in a mound of stone, $3\frac{1}{2}$ ft. base to top of post, with brass cap mkd.

T17S R22E
$\frac{1}{4}$
S35 | S36
1960

Desc. 630 ft. over steep N. slope.

65.00	Wash, 20 lks. wide, 5 ft. deep, in bottom of canyon, drains NE.; asc. 130 ft. along E. slope.

Survey, Portion of Subdivision, T. 17 S., R. 22 E.

Chains	
80.00	Point for the cor. of secs. 25, 26, 35 and 36. Set an iron post, 30 ins. long, 2½ ins. diam., 8 ins. in the ground and in a mound of stone, 4 ft. base to top of post, with brass cap mkd. T17S R22E S26 | S25 S35 | S36 1960 Land, mountainous. Soil, sandy, rocky. Timber, medium dense pinon and juniper.

From the cor. of secs. 25, 30, 31 and 36, on the E. bdy. of the tp., hereinbefore described.

S. 89° 57' W., bet. secs. 25 and 36.

Over mountainous land through dense timber

Desc. 230 ft. over W. slope.

7.80 Draw, drains N.; asc. 460 ft. over E. slope.

27.60 Spur, projects N.; desc. 300 ft. over W. slope.

40.00 Point for the ¼ sec. cor. of secs. 25 and 36.

Set an iron post, 30 ins. long, 2½ ins. diam., 18 ins. in the ground and in a collar of stone, brass cap mkd.

T17S R22E
¼ S25
S36
1960

46.10 Draw, 190 ft. below ¼ sec. cor., drains N.; asc. 480 ft. over steep E. slope.

58.00 Spur, projects N.; desc. 330 ft. over W. slope.

72.70 Wash, 20 lks. wide, 5 ft. deep, in draw, drains NE.; asc. 260 ft. over steep E. slope.

80.00 The cor. of secs. 25, 26, 35 and 36.

Land, mountainous.
Soil, sandy, rocky.
Timber, dense pinon and juniper.

From the cor. of secs. 3, 4, 33 and 34 on the S. bdy. of the Tp., monumented with a 2½ in. iron post, set, mkd. and witnessed as described in the 1960 field notes of the N. bdy. of T. 18 S., R. 22 E.

N. 0° 02' W., bet. secs. 33 and 34.

Over broken land, through dense timber.

U. S. GOVERNMENT PRINTING OFFICE 16—88330-2

GPO 8966

Survey, Portion of Subdivision, T. 17 S., R. 22 E.

Chains	
	By triangulation, desc. about 200 ft. over NE. slope.
10.00	Approximate dist. to draw, drains SE.; asc. about 220 ft. over S. slope.
21.30	Approximate dist. to spur, projects SE.; desc. about 170 ft. over NE. slope.
40.00	Point for the ¼ sec. cor. of secs. 33 and 34.
	Set an iron post, 30 ins. long, 2½ ins. diam., 18 ins. in the ground and in a collar of stone, with brass cap mkd.
	T17S R22E ¼ S33 | S34 1960
	Desc. about 100 ft. over NE. slope.
48.00	Approximate dist. to bottom of canyon, drains SE.; asc. about 400 ft. over steep SW. slope.
74.30	Spur, projects SE.; desc. about 210 ft. over N. slope.
80.00	Point for the cor. of secs. 27, 28, 33 and 34.
	Set an iron post, 30 ins. long, 2½ ins. diam., 20 ins. in the ground and in a collar of stone, with brass cap mkd.
	T17S R22E S28 | S27 S33 | S34 1960
	Land, broken. Soil, sandy, rocky. Timber, dense pinon and juniper.
	N. 0° 02' W., bet. secs. 27 and 28.
	Over broken land, through medium timber.
	By triangulation; desc. about 100 ft. over NE. slope.
7.00	Approximate dist. to draw, drains E.; asc. about 300 ft. over SE. slope.
20.10	Spur, projects E.; end of triangulation; desc. 40 ft. over NE. slope.
27.50	Head of draw, drains E.; asc. 20 ft. over SE. slope.
30.50	Spur, projects NE.; desc. 60 ft. along W. slope.
40.00	Point for the ¼ sec. cor. of secs. 27 and 28.
	Set an iron post, 30 ins. long, 2½ ins. diam., 20 ins. in the ground and in a collar of stone with brass cap mkd.
	T17S R22E ¼ S28 | S27 1960
	Desc. about 100 ft. along W. slope, by triangulation.

Survey Portion of Subdivision, T. 17 S., R. 22 E.

Chains	
50.00	Approximate dist. to head of draw, drains W.; asc. about 200 ft. over SW. slope.
74.20	Spur, projects NW.; end of triangulation; desc. 170 ft. over NE. slope.
80.00	Point for the cor. of secs. 21, 22, 27 and 28.
	Set an iron post, 30 ins. long, 2½ ins. diam., 20 ins. in the ground and in a collar of stone with brass cap mkd.
	T17S R22E S21 | S22 S28 | S27 1960
	Land, mountainous, broken. Soil, shallow sand, rocky. Timber, medium dense pinon and juniper.
	N. 0° 02' W., bet. secs. 21 and 22.
	Over broken land, through medium timber.
	By triangulation; desc. about 400 ft. over steep N. slope.
25.00	Approximate dist. to bottom of canyon, drains NE.; asc. about 200 ft. over SE. slope.
40.00	Point for the ¼ sec. cor. of secs. 21 and 22 falls on vertical ledges, bearing E. and W., where cor. cannot be perpetuated.
44.98	Point selected for the witness ¼ sec. cor. of secs. 21 and 22.
	Set an iron post, 30 ins. long, 2½ ins. diam., 6 ins. in the ground and in a mound of stone, 3½ ft. base to top of post, with brass cap mkd.
	T17S R22E ¼ S21 | S22 W C 1960
45.00	Spur, projects E.; thence by triangulation, desc. about 800 ft. over steep N. slope.
75.00	Approximate dist. to bottom of fork of Westwater Creek, drains NE.
77.40	Road, unimproved, bears E. and W.; asc. 70 ft. over S. slope. End of triangulation.
80.00	Point for the cor. of secs. 15, 16, 21 and 22.
	Set an iron post, 30 ins. long, 2½ ins. diam., 8 ins. in the ground and in a mound of stone, 3½ ft. base to top of post, with brass cap mkd.
	T17S R22E S16 | S15 S21 | S22 1960

U. S. GOVERNMENT PRINTING OFFICE 16—26520-2

Chains	
	Land, mountainous, broken. Soil, sandy loam, rocky. Timber, medium dense pinon and juniper.
	N. 0° 02' W., bet. secs. 15 and 16.
	Over broken land, through medium timber.
	By triangulation; asc. about 880 ft. over steep and broken S. slope.
31.90	Spur, projects E.; end of triangulation; desc. 290 ft. over N. slope.
40.00	Point for the ¼ sec. cor. of secs. 15 and 16.
	Set an iron post, 30 ins. long, 2½ ins. diam., 20 ins. in the ground and in a collar of stone, with brass cap mkd. T17S R22E ¼ S16 | S15 1960
	Desc. about 450 ft. over steep N. slope; by triangulation.
60.00	Approximate dist. to bottom of canyon, drains SE.; asc. about 250 ft. over steep SW. slope.
80.00	Point for the cor. of secs. 9, 10, 15 and 16.
	Set an iron post, 30 ins. long, 2½ ins. diam., 8 ins. in the ground and in a mound of stone, 3½ ft. base to top of post, with brass cap mkd. T17S R22E S 9 | S10 S16 | S15 1960
	Land, mountainous, broken. Soil, sandy, rocky. Timber, medium dense pinon and juniper, S. ½; scattered pinon and juniper and pine, N. ½.
	N. 0° 02' W., bet. secs. 9 and 10.
	Over mountainous land, through scattered timber.
	By triangulation, asc, about 400 ft. over steep SW. slope.
22.11	End of triangulation.
22.20	Spur, projects SE.; end of triangulation. Desc. 410 ft. over NE. slope.
39.50	Wash, 10 lks. wide, 7 ft. deep, drains E.; asc. 20 ft. over SE. slope.
40.00	Point for the ¼ sec. cor. of secs. 9 and 10.
	Set an iron post, 30 ins. long, 2½ ins. diam., 10 ins. in the ground and in a mound of stone, 3 ft. base to top of post, with brass cap mkd.

U. S. GOVERNMENT PRINTING OFFICE 16—28490-2

Survey, Portion of Subdivision, T. 17 S., R. 22 E.

Chains

T17S R22E.
¼
S 9 | S10
1960

Asc. about 780 ft. over SE. slope; by triangulation.

80.00 Point for the cor. of secs. 3, 4, 9 and 10.

Set an iron post, 30 ins. long, 2½ ins. diam., 24 ins. in the ground and in a collar of stone, with brass cap mkd.

T17S R22E
S 4 | S 3
S 9 | S10
1960

Land, mountainous, broken.
Soil, sandy loam.
Timber, scattered pine, pinon and juniper with dense scrub oak.

N. 0° 02' W., bet. secs. 3 and 4.

Over mountainous land, through dense oak brush and scattered pine timber.

Asc. 130 ft. over SE. slope.

16.60 Road, bears E. and W.

18.20 Spur, projects NW.; desc. 180 ft. over N. slope.

+0.00 Wash, 20 lks. wide, 3 ft. deep, drains W.; asc. 120 ft. over SW. slope.

Point for the ¼ sec. cor. of secs. 3 and 4 falls in unsafe position in wash.

+0.32 Point selected for the witness ¼ sec. cor. of secs. 3 and 4.

Set an iron post, 30 ins. long, 2½ ins. diam., 24 ins. in the ground and in a collar of stone, with brass cap mkd.

T17S R22E
¼
S 4 | S 3

W C
1960

84.64 Intersect the S. bdy. of T. 16 S., R. 22 E.

Point for the closing cor. of secs. 3 and 4.

Set an iron post, 30 ins. long, 2½ ins. diam., 6 ins. in the ground and in a mound of stone, 4 ft. base to top of post, with brass cap mkd.

S 4 | S 3
C | C
T17S R22E
1960

Survey, Portion of Subdivision, T. 17 S., R. 22 E.

Chains

NOTE: Section cors. and ¼ sec. cors. for the N. bdy. of secs. 1,2 & 3 are set at proportionate dist. bet. the closing cor. of secs. 3 & 4 and the closing cor. of Tps. 17 S., Rs. 22 and 23 E.

The original ¼ sec. cor. of secs. 3 and 34 monumented with a 1" in. iron post, set, mkd. and witnessed as described in the official record, bears E. 14.70 chs. dist. This cor. now functions for sec. 34, T. 16 S., R. 22 E. only, and was remarked

¼ S34

1922
1960

And the ¼ sec. cor. of sec. 3 bears E. 40.02 chs. dist., monumented with a 2½ in. iron post, 30 ins. long, set 18 ins. in the ground and in a collar of stone, with brass cap mkd.

¼ S 3
T17S R22E
1960

Land, mountainous.
Soil, rocky loam.
Timber, dense scrub oak with scattered pine.

From the original cor. of secs. 2, 3, 34 and 35, monumented with an iron post, 2 ins. diam., set, mkd. and witnessed as described in the official record. This cor. was remarked

T16S R22E
S34 | S35

1960
1922

East, for a calculated dist. of 25.34 chs.

Set an iron post, 30 ins. long, 2½ ins. diam., 22 ins. in the ground, with brass cap mkd.

S 3 | S 2
T17S R22E
1960

From the original ¼ sec. cor. of secs. 2 and 35, monumented with a 1 in. iron post, set, mkd. and witnessed as described in the official record. This cor. now functions as the ¼ sec. cor. of sec. 35, T. 16 S., R. 22 E. only, and was remarked

¼ S35

1960
1922

East for a calculated dist. of 25.35 chs.

Set an iron post, 30 ins. long, 2½ ins. diam., 8 ins. in the ground and in a mound of stone, 3½ ft. base to top of post, with brass cap mkd.

¼ S 2
T17S R22E
1960

U. S. GOVERNMENT PRINTING OFFICE 16—88830-3

Survey, Portion of Subdivision, T. 17 S., R. 22 E.

Chains	
	From the original cor. of secs. 1, 2, 35 and 36, monumented with a 2 in. iron post, set, mkd. and witnessed as described in the official record. This cor. now functions as the cor. of secs. 35 and 36, T. 16 S., R. 22 E. only, and was remarked T16S R22E S35 | S36 T17S 1960 1922
	East for a calculated dist. of 25.37 chs. Set an iron post, 30 ins. long, 2½ ins. diam., 20 ins. in the ground and in a mound of stone, 3½ ft. base to top of post, with brass cap mkd. S 2 | S 1 T17S R22E 1960
	From this cor. the ¼ sec. cor. of sec. 1, T. 17 S., R. 22 E., monumented with an iron post, 30 ins. long, 2½ ins. diam., set 18 ins. in the ground and in a mound of stone, 4 ft. base to top of post, with brass cap mkd. ¼ S 1 T17S R22E 1960 bears E. 40.01 chs. dist.
	From the cor. of secs. 1 and 2, previously described. S. 0° 01' E., bet. secs. 1 and 2. Over mountainous land, through medium timber. Asc. 840 ft. over steep N. slope.
20.90	Ridge, bears E. and W.; desc. 710 ft. over steep, broken SW. slope.
35.45	Point selected for the witness ¼ sec. cor. of secs. 1 and 2. Set an iron post, 30 ins. long, 2½ ins. diam., 6 ins. in the ground and in a mound of stone, 4 ft. base to top of post, with brass cap mkd. T17S R22E ¼ S 2 | S 1 W C 1960 By triangulation; desc. about 150 ft. over steep SW. slope.
44.85	Point for the ¼ sec. cor. of secs. 1 and 2 falls on vertical ledge, 100 ft. high, bears SE. and NW., where cor. cannot be perpetuated.

U. S. GOVERNMENT PRINTING OFFICE 16—88830-2

Chains	
46.90	Approximate dist. to draw, drains SE.; asc. about 800 ft. over N. slope.
84.85	Point for the cor. of secs. 1, 2, 11 and 12.
	Set an iron post, 30 ins. long, 2½ ins. diam., 6 ins. in the ground and in a mound of stone, 4 ft. base to top of post, with brass cap mkd.
	T17S R22E S 2 | S 1 S11 | S12 1960
	Land, mountainous, broken. Soil, sandy, rocky. Timber, medium dense pinon and juniper.
	From the cor. of secs. 2 and 3 on the N. bdy. of the Tp., hereinbefore described.
	S. 0° 02' E., bet. secs. 2 and 3.
	Over rolling land, through dense oak brush.
	Asc. 80 ft. over gentle N. slope.
16.40	Road, unimproved, bears SE. and NW.
44.75	Point for the ¼ sec. cor. of secs. 2 and 3.
	Set an iron post, 30 ins. long, 2½ ins. diam., 20 ins. in the ground and in a collar of stone, with brass cap mkd.
	T17S R22E ¼ S 3 | S 2 1960
52.50	Top of ascent, bears E. and W.; desc. 470 ft. over SW. slope.
84.75	Point for the cor. of secs. 2, 3, 10 and 11.
	Set an iron post, 30 ins. long, 2½ ins. diam., 6 ins. in the ground and in a mound of stone, 3 ft. base to top of post, with brass cap mkd.
	T17S R22E S 3 | S 2 S10 | S11 1960
	Land, rolling. Soil, rocky loam. Timber, dense oak brush.
	From the cor. of secs. 1, 2, 11 and 12.
	N. 89° 56' W., bet. secs. 2 and 11.
	Over mountainous land, through scattered timber.
	Asc. 200 ft. along N. slope.

Survey Portion of T. 17

Chains	
16.90	Ridge, bears N. and SE.; desc. 1,160 ft. over steep W. slope.
40.12	Point for the ¼ sec. cor. of secs. 2 and 11, 190 ft. above canyon bottom.
	Set an iron post, 30 ins. long, 2½ ins. diam., 6 ins. in the ground and in a mound of stone, 4 ft. base to top of post, with brass cap mkd.
	T17S R22E ¼ S 2/S11 1960
	Thence by triangulation.
45.20	Approximate dist. to wash in bottom of canyon, drains S.; asc. about 800 ft. over steep E. slope.
75.30	Top of ascent, bears NW. and SE.; desc. 190 ft. over steep SW. slope. End of triangulation.
80.24	The cor. of secs. 2, 3, 10 and 11.
	Land, mountainous. Soil, sandy, rocky. Timber, scattered pinon and juniper.

	From the cor. of secs. 15, 16, 21 and 22.
	West, bet. secs. 16 and 21.
	Over mountainous land, through dense timber.
	Asc. 30 ft. along S. slope.
2.10	Top of ascent, projects S.; desc. 50 ft. along S. slope.
21.30	Road, in bottom of canyon, bears SE. and SW.; canyon drains NE.; asc. 220 ft. over SE. slope.
30.30	Spur, projects S.; desc. 150 ft. along S. slope.
40.00	Point for the ¼ sec. cor. of secs. 16 and 21.
	Set an iron post, 30 ins. long, 2½ ins. diam., 20 ins. in the ground and in a collar of stone, with brass cap mkd.
	T17S R22E ¼ S16/S21 1960
	By triangulation; asc. about 360 ft. along S. slope.
55.14	End of triangulation.
62.70	Spur, projects S.; desc. 170 ft. over SW. slope.
80.00	Point for the cor. of secs. 16, 17, 20 and 21.

U. S. GOVERNMENT PRINTING OFFICE 16—28590-2

Chains	
	Set an iron post, 30 ins. long, 2½ ins. diam., 6 ins. in the ground and in a mound of stone, 5 ft. base to top of post, with brass cap mkd. T17S R22E S17 | S16 S20 | S21 1960 Land, mountainous. Soil, sandy, rocky. Timber, dense pinon and juniper.
	N. 0° 03' W., bet. secs. 16 and 17. Over mountainous land, through dense timber. Asc. 800 ft. over steep and broken S. slope.
14.50	Slope changes to W. slope; asc. 410 ft.
35.40	Spur, projects SE.; desc. 200 ft. along E. slope.
40.00	Point for the ¼ sec. cor. of secs. 16 and 17. Set an iron post, 30 ins. long, 2½ ins. diam., 16 ins. in the ground and in a collar of stone, with brass cap mkd. T17S R22E ¼ S17 | S16 1960
	Thence by triangulation; asc. about 400 ft. along steep E. slope.
55.00	Approximate dist. to head of draw, drains SE.; asc. about 600 ft. over S. slope.
69.80	End of triangulation.
80.00	Point for the cor. of secs. 8, 9, 16 and 17. Set an iron post, 30 ins. long, 2½ ins. diam., 20 ins. in the ground and in a collar of stone, with brass cap mkd. T17S R22E S 8 | S 9 S17 | S16 1960 Land, mountainous. Soil, sandy, rocky. Timber, dense pinon and juniper.
	From the cor. of secs. 9, 10, 15 and 16. S. 89° 58' W., bet. secs. 9 and 16. Over mountainous land, through dense timber. By triangulation; desc. about 800 ft. over SW. slope.
37.90	Approximate dist. to wash in bottom of canyon, drains SE.; asc. about 1,200 ft. over steep E. slope.

U. S. GOVERNMENT PRINTING OFFICE 16—88520-2

Portion of T. 17 S., R. 22 .

Chains	
39.94	Point for the ¼ sec. cor. of secs. 9 and 16.
	Set an iron post, 30 ins. long, 2½ ins. diam., 8 ins. in the ground and in a mound of stone, 3½ ft. base to top of post, with brass cap mkd.
	T17S R22E ¼ S 9 S16 1960
53.90	Ridge, bears N. and S.; cont. by triangulation, desc. about 80 ft. over gentle W. slope.
69.90	Head of draw, drains S.; asc. about 60 ft. over gentle E. slope.
79.88	The cor. of secs. 8, 9, 16 and 17.
	Land, mountainous. Soil, sandy, rocky. Timber, dense pinon and juniper.
	From the cor. of secs. 4, 5, 32 and 33 on the S. bdy. of the Tp., monumented with a 2½ in. iron post, set, mkd. and witnessed as described in the 1960 field notes of the N. bdy. of T. 18 S., R. 22 E.
	N. 0° 03' W., bet. secs. 32 and 33.
	Over mountainous land, through medium timber.
	Desc. 70 ft. along W. slope.
20.00	Head of draw, drains W.; asc. 130 ft. over SW. slope.
30.50	Spur, projects SW.; desc. 360 ft. over NW. slope.
40.00	Point for the ½ sec. cor. of secs. 32 and 33.
	Set an iron post, 30 ins. long, 2½ ins. diam., 8 ins. in the ground and in a mound of stone, 3½ ft. base to top of post, with brass cap mkd.
	T17S R22E ¼ S32 | S33 1960
	Thence by triangulation.
45.00	Approximate dist. to draw, drains W.; asc. about 70 ft. over S. slope.
50.00	Approximate dist. to spur, projects W. about 3.00 chs. to end; desc. about 200 ft. over NW. slope.
65.00	Approximate dist. to draw, drains SW.; asc. about 400 ft. over steep S. slope.
80.00	Point for the cor. of secs. 28, 29, 32 and 33.
	Set an iron post, 30 ins. long, 2½ ins. diam.; 10 ins. in the ground and in a mound of stone, 3 ft. base to top of post, with brass cap mkd.

U. S. GOVERNMENT PRINTING OFFICE 16—28590-2

Survey, Portion of Subdivision, T. 17 S., R. 22 E.

Chains	
	T17S R22E S29 | S28 S32 | S33 1960 Land, mountainous. Soil, sandy, rocky. Timber, dense pinon and juniper.
	From the cor. of secs. 5, 6, 31 and 32 on the S. bdy. of the Tp., monumented with a 2½ in. iron post, set, mkd. and witnessed as described in the 1960 field notes of the N. bdy. of T. 18 S., R. 22 E.
	N. 0° 03' W., bet. secs. 31 and 32. Over mountainous land, through medium timber.
	By triangulation; desc. about 60 ft. along E. slope.
19.90	Approximate dist. to canyon, drains SE.; asc. about 500 ft. over steep S. slope.
39.86	Point selected for the witness ¼ sec. cor. of secs. 31 and 32.
	Set an iron post, 30 ins. long, 2½ ins. diam., 3 ins. in the ground and in a mound of stone, 3½ ft. base to top of post, with brass cap mkd.
	T17S R22E ¼ W C S33 | S32 1960
40.00	Point for the ¼ sec. cor. of secs. 31 and 32 falls on broken ledge, 6 ft. high where cor. cannot be perpetuated.
	Cont. by triangulation.
47.70	Top of ascent, bears E. and W.; desc. about 80 ft. over N. slope.
63.00	Draw, drains W.; asc. about 170 ft. over S. slope.
68.80	Top of ascent, bears E. and W.; desc. about 160 ft. over N. slope.
75.40	Draw, drains SW.; asc. about 20 ft. over S. slope.
80.00	Point for the cor. of secs. 29, 30, 31 and 32.
	Set an iron post, 30 ins. long, 2½ ins. diam., 6 ins. in the ground and in a mound of stone, 4 ft. base to top of post, with brass cap mkd.
	T17S R22E S30 | S29 S31 | S32 1960 Land, mountainous. Soil, sandy, rocky. Timber, medium dense pinon and juniper.

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Survey Portion of Subdivision, T. 17 S., R. 22 E.

Chains	
	From the cor. of secs. 28, 29, 32 and 33.
	N. 89° 56' W., bet. secs. 29 and 32.
	Over broken land, through scattered timber.
	Asc. 350 ft. over broken SE. slope.
14.30	Spur, projects SE.; desc. 220 ft. over W. slope.
22.10	Draw, drains SE.; asc. 200 ft. over E. slope.
30.40	Top of ascent, bears N. and S.; desc. 320 ft. over W. slope.
36.15	Point selected for the witness ¼ sec. cor. of secs. 29 and 32.
	Set an iron post, 30 ins. long, 2½ ins. diam., 4 ins. in the ground and in a mound of stone, 4 ft. base to top of post, with brass cap mkd.
	T17S R22E W ¼ S29 C S32 1960
40.08	Point for the ¼ sec. cor. of secs. 29 and 32 falls in inaccessible position on face of ledge.
	Thence by triangulation.
44.00	Approximate dist. to head of draw, drains S.; asc. about 450 ft. over E. slope.
61.00	Spur, projects S.; end of triangulation; desc. 830 ft. over steep W. slope.
80.16	The cor. of secs. 29, 30, 31 and 32.
	Land, mountainous. Soil, sandy, rocky. Timber, scattering pinon and juniper.

From the cor. of Tps. 16 S., Rs. 21 and 22 E., monumented with a 3 in. iron post, set, mkd. and witnessed as described in the official record, U.S.C. & G.S. triangulation station "Moon," at latitude 39° 21' 51.652" N., and longitude 109° 32' 59.138" W., bears S. 83° 09' W., 34.73 chs. dist.

General Description

T. 17 S., R. 22 E. is broken, mountainous land located in the Book Cliffs, and varies in elevation from 5,600 feet to 8,300 feet above sea level.

The northwest corner of the township is drained in a northwesterly direction by Rock Creek Canyon and Tenmile Canyon. The southeast portion of the township is drained in a southeasterly direction by Westwater Creek.

There are several roads in the township, following along the bottoms of the canyons, with one on the divide between Westwater Creek and Willow Creek.

U. S. GOVERNMENT PRINTING OFFICE 16—[illegible]

65

Township 17 South, Range 22 East

Chains

The SunRay Midcontinent Oil Co., Diamond Ridge Unit No. 3 oil well is located in the SE¼ of the NW¼ of the SE¼ of section 25.

Timber in the area is dense pinon and juniper, with scattered pine southeast of the divide between Westwater Creek and Willow Creek. Along the divide is dense oak brush, with scattered pine and scattered stands of aspen timber.

Soil in the township is mostly shallow sand, with exposed sandstone outcropping.

Claims

1960)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FIELD ASSISTANTS

NAMES	CAPACITY
Alburn D. Griffin	Crew Chief, notekeeper
Rex J. Edwards	Transitman
Douglas G. Haycock	Chainman
Garv T. Oviatt	Chainman
David Hickman	Flagman
Dale Keller	Cornerman

16—53565-2

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CERTIFICATE OF CADASTRAL ENGINEER

I, George D. Voorhees, HEREBY CERTIFY upon honor that, in pursuance of special instructions bearing date of the 15th day of September, 1960, I have ~~surveyed~~ supervised the survey of the east boundary and a portion of the subdivision of T. 17 S., R. 22 E.

of the Salt Lake Meridian, in the State of Utah, which are represented in the foregoing field notes as having been executed ~~by me and~~ under my supervision; and that said 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.

Salt Lake City, Utah

June 13, 1961

George D. Voorhees

George D. Voorhees, Cadastral Surveyor

CERTIFICATE OF APPROVAL

BUREAU OF LAND MANAGEMENT,

Washington, D. C., JUL 19 1962, *19*

The foregoing field notes of the survey of the east boundary and a portion of the subdivision of T. 17 S., R. 22 E., Salt Lake Meridian, Utah

executed by Alburn D. Griffin, Cadastral Surveyor, under the supervision of George D. Voorhees, Cadastral Surveyor having been critically examined and found correct, are hereby approved.

Chief, Division of Engineering

~~Cadastral Engineering Staff Officer.~~

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.

~~Cadastral Engineering Staff Officer.~~

U. S. GOVERNMENT PRINTING OFFICE 16—53565-3

4-670

ORIGINAL

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

69

ORIGINAL

FIELD NOTES

OF THE

RETRACEMENT OF THE SOUTH BOUNDARY OF T. 16 S., R. 23 E.,

DEPENDENT RESURVEY OF THE WEST BOUNDARY

OF T. 17 S., R. 24 E. AND

THE SURVEY OF A PORTION OF THE SUBDIVISIONAL LINES

OF

TOWNSHIP 17 SOUTH, RANGE 23 EAST

Of the Salt Lake *Meridian,*

the State of Utah

EXECUTED BY

A. D. Griffin, Cadastral Surveyor

under the supervision of George D. Voorhees, Cadastral Surveyor

der special instructions dated September 15, *1960, which provided*

the surveys included under Group No. 402, *approved* September 30, 1958

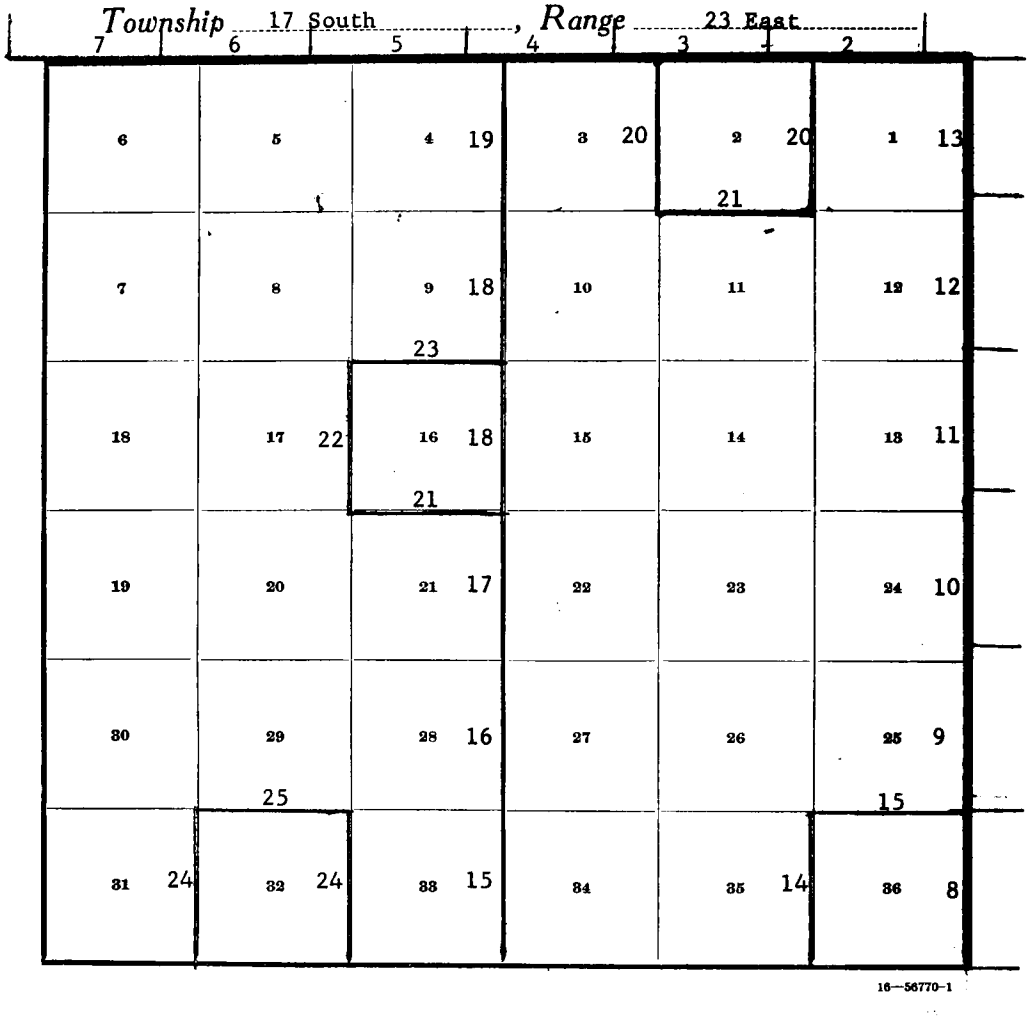
assignment instructions dated April 14 and May 3, *1960*

Survey commenced June 2, *1960*

Survey completed June 29, *1960*

U. S. GOVERNMENT PRINTING OFFICE 16—56770-1

INDEX DIAGRAM



Township 17 South, 23 East

Chains

The south boundary of T. 16 S., R. 23 E. was originally surveyed by Chapin and Paul in 1922, and the west boundary of T. 17 S., R. 24 E. by J. C. Clark in 1925. The south and west boundaries of T. 17 S., R. 23 E. were surveyed concurrently under this same group by A. D. Griffin in 1960, the records of which are contained, respectively, in the field notes of the survey of the north boundary of T. 18 S., R. 23 E. and of the east boundary of T. 17 S., R. 22 E.

The present work consists of the retracement of the south boundary of T. 16 S., R. 23 E. altering original corners to now refer to T. 16 S., only, and establishing new corners to refer to T. 17 S., only, at intervals of 40.00 chains westing counting from the northeast corner of T. 17 S., R. 23 E.; dependent resurvey of the west boundary of T. 17 S., R. 24 E., altering the original corners along the north five miles of this line to now refer to R. 24 E. only and establishing new corners to refer to R. 23 E. only, at intervals of 40.00 chains northing, counting from the southeast corner of section 25; and survey of a portion of the subdivision of T. 17 S., R. 23 E. These limited skeleton surveys are deemed sufficient in extent to facilitate the development of natural resources and to mark the boundaries of those sections normally considered State school sections.

The survey was executed with W. & L. E. Gurley solar transits Nos. 580158 and 541330, constructed in accordance with the standard instrumental specifications of the Bureau of Land Management. The instruments were in good condition prior to the beginning of the survey and were maintained in proper adjustment throughout the progress of this survey.

Corners on east-west lines were set on the true latitudinal curve. Lines connecting previously established corners were run by random and true method, but for simplification of the record the random lines are omitted from the field notes. In accordance with the intent of the special instructions, all subdivisional corners established are calculated to be at the position they would occupy if the entire township were subdivided.

Measurements herein contained were made with a narrow steel tape, 8 chains in length, graduated every link for the first 100 links and thereafter at intervals of 10 links. The tape was tested by comparison with a one-chain standard steel tape and found to be correct. Measurements were made on the slope with the vertical angle of each interval ascertained by a clinometer in good adjustment; horizontal equivalents alone are entered in the field notes. All lines of this survey were run by direct method where the lines were accessible; lines inaccessible were run by traverse or triangulation methods. The details of such traverses or triangulations have been thoroughly checked and verified and in order to simplify the record the diagrams and reductions are omitted from these field notes.

The direction of the lines of this survey were determined by reference to true meridians established on line by hour angle observations on Polaris or altitude observations on the sun. The lines were carried forward by sustained angulation being supplemented by other numerous altitude observations on the sun taken throughout the progress of the survey.

The geographic position for the southeast corner of the township is at latitude 39° 16' 38.6" N. and longitude 109° 18' 44.7" W., as adjusted from traverses to U. S. C. & G. S. triangulation stations within the area.

The magnetic declination was read at a number of stations throughout the township and the average of these readings was found to be 15° 30' East.

U. S. GOVERNMENT PRINTING OFFICE 16—38830-2

Retracement of the South Boundary of T. 16 S., R. 23 E.

Chains

Retracement of the south boundary of T. 16 S., R. 23 E., altering original corners to refer to T. 16 S. only and establishing new corners to refer to T. 17 S. only, at intervals of 40.00 chains of westing, counting from the northeast corner of T. 17 S., R. 23 E. A retracement of the survey executed by Chapin and Paul in 1922.

Beginning at the cor. of Tps. 16 and 17 S., Rs. 23 and 24 E., monumented with an iron post, 3 ins. diam., set, mkd. and witnessed as described in the official record. This cor. now functions as the corner or Tps. 16 S. Rs. 23 and 24 E. only, remarked to read:

T16S
R23E R24E
S36 | S31
T17S
1922
1960

from which

The closing cor. of Tps. 17 S., Rs. 23 and 24 E., monumented with a 3 in. iron post, set, mkd. and witnessed as described in the official record, bears E. 27.77 chs. dist.

West, along the S. bdy. of sec. 36, T. 16 S., R. 23 E.

Over mountainous land, through dense timber.

Desc. abruptly about 560 ft. over SW. slope.

12.23 Point for the ¼ sec. cor. of sec. 1, T. 17 S., R. 23 E., at 40.00 chs. westing from the NE. cor. of said sec. 1.

Set an iron post, 30 ins. long, 2½ ins. diam., 8 ins. in the ground to bedrock, in a mound of stone, 4 ft. base to top, with brass cap mkd.

¼ S1
R17S R23E
1960

19.70 Draw, drains NW.; asc. about 20 ft. over NE. slope.

20.90 Spur, projects NW.; desc. about 140 ft. over SW. slope.

28.00 Middle Canyon, drains SE.; asc. about 490 ft. over NE. slope.

40.00 The original ¼ sec. cor. of secs. 1 and 36, monumented with a 1 in. iron post, set, mkd. and witnessed as described in the official record. This cor. now functions as the ¼ sec. cor. of sec. 36, T. 16 S., R. 23 E. only, remarked to read:

T16S R23E
¼ S36
1960
1922

Spur, projects SE.; desc. about 400 ft. over SW. slope.

52.23 Point for the cor. of secs. 1 and 2, T. 17 S., R. 23 E.

Set an iron post, 30 ins. long, 2½ ins. diam., over a cross (X) cut in solid sandstone, in a mound of stone, 4½ ft. base to top, with brass cap mkd.

S2 | S1
T17S R23E
1960

U. S. GOVERNMENT PRINTING OFFICE 16—28620-2

Retracement of the South Boundary of T. 15 S., R. 23 E.

Chains	
58.30	Draw, drains SE.; asc. abruptly about 510 ft. over NE. slope.
65.10	Top of ledge, 85 ft. high, bears SE. and NW.
80.00	The original cor. of secs. 1, 2, 35 and 36, monumented with a 2 ins. iron post, set, mkd. and witnessed as described in the official record. This cor. now functions as the cor. of secs. 35 and 36, T. 16 S., R. 23 E., only, remarked to read: T16S R23E S35 | S36 T17S 1960 1922
	Land, mountainous, broken. Soil, shallow and rocky sand. Timber, dense pinon and juniper; spruce and pine.
	West, along the S. bdy. of sec. 35, T. 16 S., R. 23 E.
	Over broken, mountainous land, through dense timber.
	Asc. about 200 ft. over NE. slope.
12.23	Point for the ¼ sec. cor. of sec. 2, T. 17 S., R. 23 E.
	Set an iron post, 30 ins. long, 2½ ins. diam., 10 ins. in the ground to bedrock, in a mound of stone, 4 ft. base to top, with brass cap mkd. ¼ S2 T17S R23E 1960
14.00	Spur, projects SE.; desc. about 90 ft. over W. slope.
30.30	Draw, drains S.; asc. about 70 ft. over E. slope.
37.90	Spur, projects S.; desc. about 60 ft. over W. slope.
40.00	The original ¼ sec. cor. of secs. 2 and 35, monumented with a 1 in. iron post, set, mkd. and witnessed as described in the official record. This cor. now functions as the ¼ sec. cor. of sec. 35, T. 16 S., R. 23 E. only, remarked to read: T16S R23E ¼ S35 1960 1922
44.00	Wash, 15 lks. wide, 2 ft. deep, drains S.
52.00	Wash, 15 lks. wide, 2 ft. deep, in bottom of draw, drains SE.; asc. about 120 ft. over NE. slope.
52.23	Point for the cor. of secs. 2 and 3, T. 17 S., R. 23 E. Set an iron post, 30 ins. long, 2½ ins. diam., 10 ins. in the ground to bedrock, in a mound of stone, 4 ft. base to top, with brass cap mkd.

Chains	
	S3 | S2 T17S R23E 1960
62.80	Spur, projects S.; desc. about 210 ft. over abrupt and broken W. slope.
80.00	The original cor. of secs. 2, 3, 34 and 35, monumented with a 2 ins. iron post, set, mkd. and witnessed as described in the official record. This cor. now functions as the cor. of secs. 34 and 35, T. 16 S., R. 23 E., only, remarked to read: T16S R23E S34 | S35 1960 1922 Land, mountainous, broken. Soil, shallow sand with sandstone outcroppings on ridges; deep, sandy loam in canyons and draws. Timber, dense pinon, juniper, spruce and pine.
	West, along the S. bdy. of sec. 34, T. 16 S., R. 23 E.
	Over broken land, through medium timber; desc. about 530 ft. over W. slope.
12.23	Point for the ¼ sec. cor. of sec. 3, T. 17 S., R. 23 E.
	Set an iron post, 30 ins. long, 2½ ins. diam., 8 ins. in the ground to bedrock, in a mound of stone, 4 ft. base to top, with brass cap mkd. ¼ S3 T17S R23E 1960
24.90	Leave timber, bears N. and S.; enter dense service berry, young mahogany, oak and buck brush.
25.10	Enter dense sagebrush, bears N. and S.
25.30	Wash, 30 lks. wide, 2 ft. deep, in bottom of canyon, drains S.; asc. about 500 ft. over NE. slope.
34.00	Leave sagebrush, bears N. and S.; enter service berry bushes, oak and buck brush.
34.20	Leave undergrowth, enter timber, bears N. and S.
40.00	The original ¼ sec. cor. of secs. 3 and 34, monumented with a 1 in. iron post, set, mkd. and witnessed as described in the official record. This cor. now functions as the ¼ sec. cor. of sec. 34, T. 16 S., R. 23 E. only, remarked to read: T16S R23E ¼ S34 1960 1922
52.23	Point for the cor. of secs. 3 and 4, T. 17 S., R. 23 E. Set an iron post, 30 ins. long, 2½ ins. diam., 16 ins. in the ground, in a collar of stone, with brass cap mkd.

Chains	
	S4 | S3 T17S R23E 1960
74.10	Spur, projects SE.; desc. about 40 ft. over SW. slope.
80.00	The original cor. of secs. 3, 4, 33 and 34, monumented with a 2 ins. iron post, set, mkd. and witnessed as described in the official record. This cor. now functions as the cor. of secs. 33 and 34, T. 16 S., R. 23 E. only, remarked to read: T16S R23E S33 | S34 1960 1922 Land, mountainous, broken. Soil, shallow sand, rocky. Timber, pinon, juniper, spruce and pine.
	West, along the S. bdy. of sec. 33, T. 16 S., R. 23 E. Over broken land, through medium timber. Desc. about 20 ft. over SW. slope.
3.00	Draw, drains SE.; asc. about 100 ft. over NE. slope.
7.80	Spur, projects SE.; desc. about 110 ft. over SW. slope.
12.23	Point for the ¼ sec. cor. of sec. 4, T. 17 S., R. 23 E. Set an iron post, 30 ins. long, 2½ ins. diam., 12 ins. in the ground to bedrock, in a mound of stone, 4 ft. base to top, with brass cap mkd. ¼ S4 T17S R23E 1960
16.50	Draw, drains SE.; asc. about 220 ft. over NE. slope.
23.80	Spur, projects SE.; desc. about 90 ft. over SW. slope.
27.60	Draw, drains SE.; asc. about 120 ft. over NE. slope.
34.90	Spur, projects SW.; desc. about 390 ft. over NW. slope.
40.00	The original ¼ sec. cor. of secs. 4 and 33, monumented with a 1 in. iron post, set, mkd. and witnessed as described in the official record. This cor. now functions as the ¼ sec. cor. of sec. 33, T. 16 S., R. 23 E. only, remarked to read: T16S R23E ¼ S33 1960 1922
52.23	Point for the cor. of secs. 4 and 5, T. 17 S., R. 23 E. Set an iron post, 30 ins. long, 2½ ins. diam., 20 ins. in the ground, in a collar of stone, with brass cap mkd.

Retracement of the South Boundary of T. 16 S., R. 23 E.

Chains	
	T.S5 | S4 T17S R23E 1960
63.70	Draw, drains S. 15° W.; asc. about 20 ft. over SE. slope.
68.50	Spur, projects SW. about 3.00 chs.; desc. about 100 ft. over NW. slope.
79.00	The original witness cor. of secs. 4, 5, 32 and 33, monumented with a 2 ins. iron post, set, mkd. and witnessed as described in the official record. This cor. now functions as the witness cor. of secs. 32 and 33, T. 16 S., R. 23 E. only, remarked to read: T16S R23E WC S32 | S33 1960 1922
80.00	True point for the cor. of secs. 32 and 33 falls on broken ledges where it is impractical to set an iron post. Land, mountainous, broken. Soil, shallow, rocky red sand, deep sandy loam in draws. Timber, medium growth of pinon, juniper, spruce and fir.
	West, along the S. bdy. of sec. 32, T. 16 S., R. 23 E. Over broken, mountainous land, through medium timber; desc. about 130 ft. over W. slope.
4.10	Draw, drains S.; asc. about 130 ft. over E. slope.
11.23	Point selected for the witness ¼ sec. cor. of sec. 5, T. 17 S., R. 23 E. Set an iron post, 30 ins. long, 2½ ins. diam., 3 ins. in the ground to bedrock, in a mound of stone, 4 ft. base to top, with brass cap mkd. ¼ S5 WC T17S R23E 1960
12.20	Spur, projects S. about 2.00 chs.; desc. about 90 ft. over SW. slope.
12.23	True point for ¼ sec. cor. of sec. 5. Position for cor. unsafe.
18.00	Leave timber, bears N. and S.
23.40	Wash, 30 lks. wide, 2 ft. deep, in bottom of Hay Canyon, drains S.; asc. about 770 ft. over broken NE. slope.
25.90	Wagon road, bears N. to Meadow Creek Ranch and S. to Cisco, Utah
30.00	Enter timber, bears N. and S.
40.00	The original ¼ sec. cor. of secs. 5 and 32, monumented with a 1 in. iron post, set, mkd. and witnessed as described in the official record. This cor. now functions as the ¼ sec. cor. of sec. 32, T. 16 S., R. 23 E. only, remarked to read:

U. S. GOVERNMENT PRINTING OFFICE 16—28830-2

Chains	
	T16S R23E ¼S32 1960 1922
52.23	Point for the cor. of secs. 5 and 6, T. 17 S., R. 23 E. Set an iron post, 30 ins. long, 2½ ins. diam., 20 ins. in the ground, in a collar of stone, with brass cap mkd. S6 | S5 T17S R23E 1960
79.00	The original witness cor. of secs. 5, 6, 31 and 32, monumented with a 2 ins. iron post, set, mkd. and witnessed as described in the official record. This cor. now functions as the witness cor. of secs. 31 and 32, T. 16 S., R. 23 E. only, remarked to read: T16S R23E WC S31 | S32 T17S 1922 1960
80.00	True point for the cor. of secs. 31 and 32 falls on ledge, 30 ft. high, bearing N. and S. where it is impractical to set an iron post. Land, mountainous, broken W. ½, mountainous E. ½. Soil, shallow, rocky sand; deep sandy loam in bottom of draws and canyons. Timber, dense pinon and spruce W. ½, medium growth of pinon and juniper E. 18.00 chs.; none in between.
	West, along the S. bdy. of sec. 31, T. 16 S., R. 23 E. Over mountainous land, through dense timber. Asc. abruptly about 250 ft. over broken E. slope.
3.90	Spur, projects S.; desc. abruptly about 990 ft. over broken W. slope.
7.94	Point selected for the witness ¼ sec. cor. of sec. 6, T. 17 S., R. 23 E. Set an iron post, 30 ins. long, 2½ ins. diam., 10 ins. in the ground to bedrock, in a mound of stone, 3 ft. base to top, with brass cap mkd. W C¼ S6 T17S R23E 1960
12.23	True point for the ¼ sec. cor. of sec. 6 falls on ledges where cor. cannot be perpetuated.
34.90	Draw, drains S.; asc. about 360 ft. over abrupt E. slope.
40.00	The original ¼ sec. cor. of secs. 6 and 31, monumented with a 1 in. iron post, set, mkd. and witnessed as described in the official record. This cor. now functions as the ¼ sec. cor. of sec. 31, T. 16 S., R. 23 E. only, remarked to read:

U. S. GOVERNMENT PRINTING OFFICE 16—28890-2

Chains	
	T16S R23E ¼ S31 1960 1922
50.54	Spur, projects S. about 10.00 chs.; desc. about 240 ft. over W. slope.
52.24	The closing cor. of Tps. 17 S., Rs. 22 and 23 E., monumented with a 2½ ins. iron post, set, mkd. and witnessed as described in the 1960 field notes of the E. bdy. of T. 17 S., R. 22 E.
57.30	Draw, drains S.; asc. about 300 ft. over E. slope.
60.60	Spur, projects S. about 10.00 chs.; desc. about 330 ft. over broken SW. slope.
72.10	Enter bottom of canyon, thence across nearly level land.
75.10	Wash, 40 lks. wide, 4 ft. deep, drains SE.
77.64	The cor. of Tps. 16 and 17 S., Rs. 22 and 23 E., monumented with a 3 ins. iron post, set, mkd. and witnessed as described in the official record. This cor. now functions for Tps. 16 S., Rs. 22 and 23 E. only and is remarked to read: T16S R22E R23E S36 | S31 S 1 1922 1960 Land, mountainous, broken. Soil, rocky, shallow sand; deep sandy loam in draws, canyon. Timber, dense pinon and juniper, scattered pine.

Dependent Resurvey of the West Boundary of T. 17 S., R. 24 E.

Dependent resurvey of the W. bdy. of T. 17 S., R. 24 E., altering original cors. along the N. five miles of this line to refer to R. 24 E. only and establishing new cors. to refer to R. 23 E. only at intervals of 40.00 chs. northing, counting from the SE. cor. of sec. 25.

Reestablishment of the survey executed by J. C. Clark in 1925.

Beginning at the cor. of Tps. 17 and 18 S., Rs. 23 and 24 E., monumented with a 3 ins. iron post, set, mkd. and witnessed as described in the official record.

North, bet. secs. 31 and 36.

Over mountainous land, through medium timber,

By triangulation; desc. about 400 ft. over N. slope.

13.00	Approximate dist. to bottom of Westwater Creek, with stream of clear water, 5 lks. wide, 1 ft. deep, drains SE.; asc. about 200 ft. over SW. slope.
13.50	Approx. dist. to road, graded, bears NW. and SE.
23.00	Spur, projects W.; end of one triangulation, beginning of another; desc. about 100 ft. over N. slope.

Dependent Resurvey of the West Boundary of T. 17 S., R. 24 E.

Chains	
39.00	Approx. dist. to draw, drains SW.; asc. about 150 ft. over broken ledges on SW. slope.
40.02	The ¼ sec. cor. of secs. 31 and 36, monumented with a 1 in. iron post, set, mkd. and witnessed as described in the official record.
44.70	Top of ledge, 50 ft. high, bears NW. and SE.; end of triangulation; asc. about 250 ft. over SW. slope.
80.08	The cor. of secs. 25, 30, 31 and 36, monumented with a 2 ins. iron post, set, mkd. and witnessed as described in the official record.
	Land, mountainous. Soil, shallow sand, rocky. Timber, medium dense pinon and juniper.

North, along the W. bdy. of sec. 30.

Over rolling land, through dense timber; asc. 150 ft. over S. slope.

8.60	Spur, projects W.; desc. 90 ft. over N. slope.
18.30	Draw, drains W.; asc. 60 ft. over S. slope.
22.30	Spur, projects W.; desc. 20 ft. over N. slope.
30.30	Draw, drains SW.; asc. 190 ft. over SW. slope.
40.00	Point for the ¼ sec. cor. of sec. 25, T. 17 S., R. 23 E.
	Set an iron post, 30 ins. long, 2½ ins. diam., 10 ins. in the ground to bedrock, in a mound of stone, 3½ ft. base to top, with brass cap mkd.

T17S
R23E
¼
S25
1960

40.28	The original ¼ sec. cor. of secs. 25 and 30, which is monumented with an iron post, 1 in. diam., set, mkd. and witnessed as described in the official record. This cor. now functions as the ¼ sec. cor. of sec. 30 only and is remarked to read as follows:

¼
S30
1925
1960

Cont. course and measurement.

46.40	Spur, projects W.; desc. 150 ft. over N. slope.
55.40	Draw, drains W.; asc. 100 ft. over S. slope.
73.80	Spur, projects W.; desc. 150 ft. over N. slope.
80.00	Point for the cor. of secs. 24 and 25, T. 17 S., R. 23 E.
	Set an iron post, 30 ins. long, 2½ ins. diam., 6 ins. in the ground to bedrock, in a mound of stone, 4 ft. base to top, with brass cap mkd.

Dependent Resurvey of the West Bounda. of T. 17 S., R. 24 .

Chains	
	T17S R23E S24 S25 1960
	Desc. about 10 ft. over N. slope.
80.40	The original cor. of secs. 19, 24, 25 and 30, which is monumented with an iron post, 2 ins. diam., set, mkd. and witnessed as described in the official record. This cor. now functions for secs. 19 and 30, T. 17 S., R. 24 E. only, and is remarked to read:
	T17S R24E S19 S30 1925 1960
	Land, mountainous. Soil, shallow, sandy and rocky. Timber, dense pinon and juniper.
	North, along the W. bdy. of sec. 19.
	Over mountainous land, through dense timber.
.70	Draw, drains W.; asc. 230 ft. over S. slope.
23.40	Spur, projects W.; desc. 130 ft. over N. slope.
39.60	Point for the ¼ sec. cor. of sec. 24, T. 17 S., R. 23 E.
	Set an iron post, 30 ins. long, 2½ ins. diam., 8 ins. in the ground to bedrock, in a mound of stone, 3½ ft. base to top, with brass cap mkd.
	T17S R23E ¼ S24 1960
40.01	The original ¼ sec. cor. of secs. 19 and 24, which is monumented with an iron post, 1 in. diam., set, mkd. and witnessed as described in the official record. This cor. now functions for sec. 19 only, and is remarked to read:
	¼ S19 1925 1960
	Cont. course and measurement; desc. 570 ft. over N. slope.
58.00	Bottom of canyon, drains E.; asc. 370 ft. over S. slope.
70.00	Spur, projects SE.; desc. 160 ft. along S. slope.
79.60	Point for the cor. of secs. 13 and 24, T. 17 S., R. 23 E.
	Set an iron post, 30 ins. long, 2½ ins. diam., 8 ins. in the ground to bedrock, in a mound of stone, 3½ ft. base to top, with brass cap mkd.

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Dependent Resurvey of the West Boundary of T. 17 S., R. 24 E.

Chains	
	T17S R23E S13 | S24 | 1960
80.16	The original cor. of secs. 13, 18, 19 and 24, which is monumented with an iron post, 2 ins. diam., set, mkd. and witnessed as described in the official record. This cor. now functions as the cor. of secs. 18 and 19 only, and is remarked to read: T17S R24E |S18 |S19 1924 1960 Land, mountainous. Soil, sandy and rocky. Timber, dense pinon and juniper.
	North, along the W. bdy. of sec. 18. Over mountainous land, through dense timber; desc. 280 ft. along E. slope.
26.40	Draw, drains E.; asc. 70 ft. along E. slope.
39.25	Spur, projects E.
39.44	Point for the ¼ sec. cor. of sec. 13, T. 17 S., R. 23 E. Set an iron post, 30 ins. long, 2½ ins. diam., 3 ins. in the ground to bedrock, in a mound of stone, 3½ ft. base to top, with brass cap mkd. T17S R23E ¼ | S13 | 1960 Desc. 10 ft. over N. slope.
40.19	True point for the original ¼ sec. cor. of secs. 13 and 18 falls on steep outcrop where cor. could not be monumented.
40.34	The original witness ¼ sec. cor. of secs. 13 and 18, which is monumented with an iron post, 1 in. diam., set, mkd. and witnessed as described in the official record. This cor. now functions as a witness ¼ sec. cor. of sec. 18 only, and is remarked to read: |¼ |S18 W C 1925 1960 Cont. course and measurement; asc. 10 ft. along E. slope.
42.00	Small spur, projects E.; desc. 240 ft. over NE. slope.
72.25	Bottom of Middle Canyon, with trickle of water, 1 lk. wide, 2 ins. deep, drains SE. for about 2.00 chs. then turns S.; asc. 90 ft. over SE. slope.

Chains	
77.50	Spur, projects SW. for about 3.00 chs.; desc. 80 ft. over NE. slope.
79.44	Point for the cor. of secs. 12 and 13, T. 17 S., R. 23 E.
	Set an iron post, 30 ins. long, 2½ ins. diam., 3 ins. in the ground to bedrock, in a mound of stone, 4 ft. base to top, with brass cap mkd.
	T17S R23E S12 | S13 | 1960
	from which,
	Capped well of Oil Inc. bears N. 41° 01' W., 33.90 chs. dist.
	Capped well, Govt. No. 1, bears S. 22° 04' W., 6.55 chs. dist.
	Capped well, No. C-18-4, bears S. 15° 21' W., 7.48 chs. dist.
	Desc. 20 ft. over NW. slope.
80.45	The original cor. of secs. 7, 12, 13 and 18, which is monumented with an iron post, 2 ins. diam., set, mkd. and witnessed as described in the official record. This cor. now functions for secs. 7 and 18 only and is remarked to read:
	T17S R24E | S 7 | S18 1925 1960
	Land, mountainous. Soil, sandy and rocky loam. Timber, dense pinon and juniper.
	North, along the W. bdy. of sec. 7.
	Over mountainous land, through dense timber.
.30	Draw, drains W.; asc. 240 ft. over S. slope.
7.40	Spur, projects W.; desc. 120 ft. over NW. slope.
15.20	Draw, drains SW.; asc. 660 ft. over S. slope.
38.99	Point for the ¼ sec. cor. of sec. 12, T. 17 S., R. 23 E.
	Set an iron post, 30 ins. long, 2½ ins. diam., 8 ins. in the ground to bedrock, in a mound of stone, 4 ft. base to top, with brass cap mkd.
	T17S R23E ¼ | S12 | 1960
39.91	The original ¼ sec. cor. of secs. 7 and 12, which is monumented with an iron post, 1 in. diam., set, mkd. and witnessed as described in the official record. This cor. now functions as the ¼ sec. cor. of sec. 7 only, and is remarked to read:

Dependent Resurvey of the West Boundary of T. 17 S., R. 24 E.

Chains	
	1/4 S7. 1925. 1960.
	Cont. course and measurement.
	Beginning of triangulation; asc. about 300 ft. over steep S. slope.
47.91	End of triangulation.
49.40	Spur, projects W.; desc. 20 ft. over N. slope.
57.20	Head of draw, drains W.; asc. 100 ft. along W. slope.
75.40	Spur, projects W.; desc. 150 ft. over N. slope.
78.99	Point for the cor. of secs. 1 and 12, T. 17 S., R. 23 E.
	Set an iron post, 30 ins. long, 2½ ins. diam., 8 ins. in the ground to bedrock, in a mound of stone, 4 ft. base to top, with brass cap mkd.
	T17S R23E S 1 S12 1960
80.15	The original cor. of secs. 1, 6, 7 and 12, which is monumented with an iron post, 2 ins. diam., set, mkd. and witnessed as described in the official record. This cor. now functions for secs. 6 and 7 only, and is remarked to read as follows:
	T17S R24E S6 S7 1925 1960
	Land, mountainous. Soil, sandy and rocky. Timber, dense pinon and juniper.
	North, along the W. bdy. of sec. 6.
	Over broken land, through dense timber; desc. 600 ft. over steep N. slope; by triangulation.
28.85	Approx. dist. to draw, drains SW.; asc. about 600 ft. over SE. slope.
38.84	Point for the ¼ sec. cor. of sec. 1 falls in an inaccessible place on steep ledge.
39.04	Point selected for the witness ¼ sec. cor. of sec. 1, T. 17 S., R. 23 E.
	Set an iron post, 30 ins. long, 2½ ins. diam., 8 ins. in the ground to bedrock, in a mound of stone, 3½ ft. base to top, with brass cap mkd.
	T17S R23E ¼ S1 W C 1960

U. S. GOVERNMENT PRINTING OFFICE 16—26580-2

Dependent Resurvey of the West Boundary of T. 17 S., R. 24 E.

Chains	
40.29	The original ¼ sec. cor. of secs. 1 and 6, which is monumented with an iron post, 1 in. diam., set, mkd. and witnessed as described in the official record. This cor. now functions as the ¼ sec. cor. of sec. 6, T. 17 S., R. 24 E. only, and is remarked to read: ¼ S6 | 1925 1960
	Cont. course and measurement.
48.50	Ridge, bears E. and W.; desc. 70 ft. over N. slope.
68.35	Draw, drains E.; asc. 20 ft. over S. slope.
73.50	Spur, projects E.; desc. 140 ft. over N. slope.
83.85	The closing cor. of secs. 1 and 6, Tps. 17 S., Rs. 23 and 24 E., which is monumented with an iron post, 3 ins. diam., set, mkd. and witnessed as described in the official record.
	Land, mountainous. Soil, sandy and rocky. Timber, dense pinon and juniper.

Survey of a Portion of the Subdivisional Lines, T. 17 S., R. 23 E.

	From the cor. of secs. 1, 2, 35 and 36, on the S. bdy. of the Tp., monumented with a 2½ ins. iron post, set, mkd. and witnessed as described in the 1960 field notes of the N. bdy. of T. 18 S., R. 23 E.
	N. 0° 01' W., bet. secs. 35 and 36.
	Over broken, mountainous land, through dense timber; asc. 10 ft. along gentle W. slope.
6.00	Spur, projects W.; desc. 160 ft. over NE. slope.
29.00	Slope changes to N.; desc. 550 ft.
40.00	Point for the ¼ sec. cor. of secs. 35 and 36.
	Set an iron post, 30 ins. long, 2½ ins. diam., 6 ins. in the ground to bedrock, in a mound of stone, 3½ ft. base to top of post, with brass cap mkd. T17S R23E ¼ S35 | S36 1960
	Thence by triangulation.
50.00	Approx. dist. to bottom of Westwater Creek, with stream of water 3 ins. deep, 2 ft. wide, drains E.
52.00	Approx. dist. to road, graded gravel, bears E. and W. for 3.00 chs., thence NW.; asc. about 400 ft. over steep, broken S. slope.
69.30	Top of ledge, 85 ft. high, bears E. and W.; base about 100 ft. over S. slope.
78.00	Spur, projects W.; end of triangulation; desc. 10 ft. along W. slope.
80.00	Point for the cor. of secs. 25, 26, 35 and 36.
	Set an iron post, 30 ins. long, 2½ ins. diam., 10 ins. in the ground to bedrock, in a mound of stone, 3 ft. base to top, with brass cap mkd

U.S. GOVERNMENT PRINTING OFFICE 16—28220-2

Survey of a Portion of the Subdivision of T. 17 S., R. 23 E.

Chains	
	T17S R23E S26 | S25 S35 | S36 1960
	Land, mountainous, broken. Soil, shallow sand, rocky. Timber, dense pinon and juniper.
	From the cor. of secs. 25, 30, 31 and 36, on the E. bdy. of the Tp., hereinbefore described.
	S. 89° 51' W., bet. secs. 25 and 36.
	Over mountainous land, through dense timber; asc. 40 ft. over E. slope.
7.40	Spur, projects S.; desc. 140 ft. over SW. slope.
22.00	Draw, drains S.; asc. 100 ft. over E. slope.
24.20	Spur, projects S.; desc. 300 ft. over broken SW. slope.
40.00	Point for the ¼ sec. cor. of secs. 25 and 36.
	Set an iron post, 30 ins. long, 2½ ins. diam., 3 ins. in the ground to bedrock, in a mound of stone, 4 ft. base to top, with brass cap mkd. T17S R23E ¼ S25 S36 1960
	Thence by triangulation.
50.00	Approx. dist. to bottom of fork of Westwater Creek, drains SE.; asc. about 700 ft. over steep, broken NE. slope.
77.00	Approx. dist. to spur, projects N.; desc. about 20 ft. over W. slope.
80.00	The cor. of secs. 25, 26, 35 and 36. Land, mountainous, broken. Soil, shallow sand, rocky. Timber, dense pinon and juniper.
	From the cor. of secs. 3, 4, 33 and 34, on the S. bdy. of the Tp., monumented with a 2½ ins. iron post, set, mkd. and witnessed as described in the 1960 field notes of the N. bdy. of T. 18 S., R. 23 E.
	N. 0° 02' W., bet. secs. 33 and 34.
	Over mountainous land, through dense timber; asc. 70 ft. along E. slope.
14.80	Spur, projects N.; desc. 60 ft. over N. slope.
22.70	Draw, drains NW.; asc. 60 ft. over S. slope.
30.90	Top of knoll; desc. 150 ft. over N. slope.
40.00	Point for the ¼ sec. cor. of secs. 33 and 34.

Survey of a Portion of the Subdivision of T. 17 S., R. 23 E.

Chains	
	By triangulation; desc. about 200 ft. over N. slope.
55.00	Approx. dist. to bottom of canyon, with stream of water, 1 ft. wide, 1 in. deep, drains E.; asc. about 150 ft. over S. slope.
80.00	Point for the cor. of secs. 27, 28, 33 and 34, falls on ledge where cor. cannot be perpetuated.
	Land, mountainous, broken. Soil, shallow, rocky sand. Timber, dense pinon and juniper.

N. 0° 02' W., bet. secs. 27 and 28.

Over broken land, through dense timber; asc. 100 ft. over abrupt S. slope.

2.25 Point selected for the witness cor. of secs. 27, 28, 33 and 34, on a ledge 50 ft. high, bears E. and W.

Set an iron post, 30 ins. long, 2½ ins. diam., on solid sandstone, over a cross (X) cut in stone, in a mound of stone, 4 ft. base to top, with brass cap mkd.

T17S R23E
S28 | S27
S33 | S34
W C
1960

Asc. 100 ft. over S. slope.

8.50 Ridge, bears E. and W.; beginning of triangulation; desc. about 400 ft. over N. slope.

34.00 Approx. dist. to wash in bottom of canyon, drains E.; asc. about 200 ft. over S. slope.

40.00 Point for the ¼ sec. cor. of secs. 27 and 28.

Set an iron post, 30 ins. long, 2½ ins. diam., 18 ins. in the ground, in a collar of stone, with brass cap mkd.

T17S R23E
¼
S28 | S27
1960

48.20 End of triangulation.

48.60 Spur, projects E.; thence by triangulation, desc. about 600 ft. over broken N. slope.

80.00 Point for the cor. of secs. 21, 22, 27 and 28 falls in wash in Westwater Canyon where cor. cannot be perpetuated.

Land, mountainous and broken.
Soil, sandy and rocky.
Timber, dense pinon and juniper.

U.S. GOVERNMENT PRINTING OFFICE : 16—35580-2

Survey of a Portion of the Subdivision of T. 17 S., R. 23 E.

Chains	
	N. 0° 02' W., bet. secs. 21 and 22.
	Over mountainous land, through dense timber.
6.00	Point selected for the witness cor. of secs. 21, 22, 27 and 28.
	Set an iron post, 30 ins. long, 2½ ins. diam., 20 ins. in the ground, in a mound of stone to top, with brass cap mkd.
	T17S R23E S21 | S22 S28 | S27 W C 1960
	Asc. about 250 ft. over canyon walls.
7.00	Road, graded, bears S. 20° E. and N. 20° W. for 2.00 chs. then turns to N.
12.10	Same road, bears SW. and NE.
14.00	Westwater Creek, with stream of water, 1 in. deep, 2 ft. wide, drains SW.
20.30	Same road in bottom of wash, in Westwater Canyon bears E. and W.; wash drains E.
29.00	Trail road in bottom of wash, in fork of Westwater Canyon, bears NE. and SW.; wash, drains SW., asc. 100 ft. over SE. slope.
34.30	Spur, projects E.; desc. 90 ft. over N. slope.
38.50	Wash, 80 lks. wide, 3 ft. deep, drains E.
40.00	Point for the ¼ sec. cor. of secs. 21 and 22, falls in trail road, bears SE. and NW.; in bottom of wash, drains SE. Impractical point for cor. monument.
40.50	Point selected for the witness ¼ sec. cor. of secs. 21 and 22.
	Set an iron post, 30 ins. long, 2½ ins. diam., 22 ins. in the ground, in a mound of stone, with brass cap mkd.
	T17S R23E ¼ S21 | S22 W C 1960
49.60	Same wash, 80 lks. wide, 4 ft. deep, drains SW. on curve from SE.
59.30	Leave bottom of canyon, ledges bear NW. and SE.; asc. 180 ft. over S. slope.
80.00	Point for the cor. of secs. 15, 16, 21 and 22.
	Set an iron post, 30 ins. long, 2½ ins. diam., 3 ins. in the ground to bedrock, in a mound of stone, 4 ft. base to top, with brass cap mkd.
	T17S R23E S16 | S15 S21 | S22 1960
	Land, mountainous. Soil, sandy loam. Timber, dense pinon and juniper.

Survey of a Portion of the Subdivision of T. 17 S., R. 23 E.

Chains	
	N. 0° 02' W., bet. secs. 15 and 16.
	Over mountainous land, through dense timber; asc. 80 ft. over abrupt S. slope.
4.30	Spur, projects W.; desc. 40 ft. over NW. slope.
9.40	Small draw, drains SW.; asc. 50 ft. over S. slope.
13.60	Spur, projects SW.; desc. 120 ft. over NW. slope.
30.30	Draw, drains SW.; asc. 110 ft. over SE. slope.
40.00	Point for the ¼ sec. cor. of secs. 15 and 16 falls on vertical ledge, 40 ft. high, bears NE. and SW., where cor. cannot be perpetuated.
40.30	Point selected for the witness ¼ sec. cor. of secs. 15 and 16.
	Set an iron post, 30 ins. long, 2½ ins. diam., 3 ins. in the ground to bedrock, in a mound of stone, 4 ft. base to top, with brass cap mkd. T17S R23E ¼ S16 | S15 W C 1960
	Asc. 230 ft. over SW. slope.
70.60	Spur, projects W.; desc. 20 ft. along W. slope.
77.90	Small draw, drains W.; asc. 10 ft. along W. slope.
80.00	Point for the cor. of secs. 9, 10, 15 and 16.
	Set an iron post, 30 ins. long, 2½ ins. diam., 6 ins. in the ground to bedrock, in a mound of stone, 4 ft. base to top, with brass cap mkd. T17S R23E S 9 | S10 S16 | S15 1960
	Land, mountainous. Soil, sandy, rocky. Timber, dense pinon and juniper.
	N. 0° 02' W., bet. secs. 9 and 10.
	Over mountainous land, through dense timber; asc. 120 ft. over N. slope.
18.10	Spur, projects W.; desc. 570 ft. over steep NW. slope.
37.70	Bottom of canyon, drains W.; asc. 60 ft. over S. slope.
40.00	Point for the ¼ sec. cor. of secs. 9 and 10, at base of ledge, 60 ft high, bears E. and W.
	Set an iron post, 30 ins. long, 2½ ins. diam., 6 ins. in the ground to bedrock, in a mound of stone, 4 ft. base to top, with brass cap mkd.

U. S. GOVERNMENT PRINTING OFFICE 16—68280-2

Survey of a Portion of the Subdivision of T. 17 S., R. 23 E.

Chains	
	T17S R23E ¼ S 9 | S10 1960
	Asc. abruptly 60 ft. over ledge.
43.20	Top of ledge, bears E. and W. 350 ft. over SE. slope.
57.00	Spur, projects SW.; desc. 230 ft. along W. slope.
80.00	Point for the cor. of secs. 3, 4, 9 and 10.
	Set an iron post, 30 ins. long, 2½ ins. diam., 18 ins. in the ground, in a collar of stone with brass cap mkd.
	T17S R23E S4 | S3 S9 | S10 1960
	Land, mountainous. Soil, sandy, rocky. Timber, dense pinon and juniper, scattered pine.
	N. 0° 05' E., bet. secs. 3 and 4.
	Over mountainous land, through dense timber; desc. 300 ft. over NW. slope.
14.30	Bottom of canyon, drains SW.; asc. 250 ft. over SE. slope.
34.60	Spur, projects E.; desc. 130 ft. over NE. slope.
40.00	Point for the ¼ sec. cor. of secs. 3 and 4 falls in bottom of canyon draining E. 7.00 chs. to main canyon where cor. cannot be perpetuated.
40.70	Point selected for the witness ¼ sec. cor. of secs. 3 and 4.
	Set an iron post, 30 ins. long, 2½ ins. diam., 8 ins. in the ground to bedrock, in a mound of stone, 3½ ft. base to top, with brass cap mkd.
	T17S R23E ¼ S4 | S3 W C 1960
	Asc. 340 ft. over abrupt S. slope.
57.10	Spur, projects E.; desc. 100 ft. over NE. slope.
68.00	Draw, drains E.; asc. 340 ft. over S. slope.
82.20	Spur, projects E.; desc. 20 ft. over N. slope.
84.99	The cor. of secs. 3 and 4, on the N. bdy. of the Tp., previously described.
	Land, mountainous. Soil, sandy, rocky. Timber, dense pinon and juniper, scattered pine.

U. S. GOVERNMENT PRINTING OFFICE 16—28590-2

S. _ of a Portion of the Subdivision of T. 7 S.

Chains	
	From the cor. of secs. 2 and 3, on the N. bdy. of the Tp, previously described.
	S. 0° 02' E., bet. secs. 2 and 3.
	Over mountainous land; asc. 230 ft. along E. slope.
31.00	Spur, projects E.; desc. 190 ft. over SE. slope.
44.70	Draw, drains E.; asc. 230 ft. over NE. slope.
45.00	Point for the ¼ sec. cor. of secs. 2 and 3.
	Set an iron post; 30 ins. long; 2½ ins. diam.; 20 ins. in the in a flat mound of stone, with brass cap mkd.
	T17S R23E ¼ S3 | S2 1960
70.40	Spur, projects E.; desc. 30 ft. over SE. slope.
78.00	Head of draw, drains E.; asc. 20 ft. over NE. slope.
85.00	Point for the cor. of secs. 2, 3, 10 and 11.
	Set an iron post, 30 ins. long, 2½ ins. diam., 20 ins. in the ground in a flat mound of stone to top; with brass cap mkd.
	T17S R23E S3 | S2 S10 | S11 1960
	Land, mountainous. Soil, sandy and rocky. Timber, dense pinon and juniper.

	From the cor. of secs. 1 and 2; on the N. bdy. of the Tp., previousl described.
	S. 0° 01' E., bet. secs. 1 and 2.
	Over broken land, through dense timber; by triangulation; desc. ab 400 ft. over SW. slope.
10.00	Approx. dist. to bottom of canyon, drains SE.; asc. about 400 ft. NE. slope.
28.40	Spur, projects E.; desc. about 400 ft. over S. slope.
29.17	End of triangulation.
36.11	Point selected for the witness ¼ sec. cor. of secs. 1 and 2.
	Set an iron post, 30 ins. long, 2½ ins. diam., 3 ins. in the ground to bedrock, in a mound of stone, 3½ ft. base to top, with brass cap mkd.
	T17S R23E ¼ S2 | S1 W C 1960
	Beginning of triangulation.

U. S. GOVERNMENT PRINTING OFFICE 16—25220-2

Survey of a Portion of the Subdivision of T. 17 S., R. 23 E.

Chains	
45.00	True point for the ¼ sec. cor. of secs. 1 and 2 falls on vertical ledges bearing E. and W. where cor. monument cannot be established.
48.00	Approx. dist. to bottom of canyon, drains E.; asc. about 350 ft. over N. slope.
72.00	Spur, projects E.; asc. about 90 ft. over S. slope.
72.10	End of triangulation.
85.00	Point for the cor. of secs. 1, 2, 11 and 12.
	Set an iron post, 30 ins. long, 2½ ins. diam., 20 ins. in the ground, in a flat mound of stone to top, with brass cap mkd. T17S R23E S2 | S1 S11 | S12 1960
	Land, mountainous. Soil, sandy and rocky. Timber, dense pinon and juniper, scattered fir.
	West, bet. secs. 2 and 11.
	Over mountainous land, through dense timber; desc. 110 ft. over SW. slope.
16.00	Draw, drains S.; asc. 250 ft. over abrupt SE. slope.
39.99	Point for the ¼ sec. cor. of secs. 2 and 11.
	Set an iron post, 30 ins. long, 2½ ins. diam., 10 ins. in the ground to bedrock, in a mound of stone, 3½ ft. base to top, with brass cap mkd. T17S R23E ¼ S 2 S11 1960
40.80	Spur, projects S.; desc. 110 ft. over SW. slope.
49.60	Draw, drains S.; asc. 90 ft. over SE. slope.
54.00	Spur, projects S.; desc. 70 ft. along S. slope.
68.00	Draw, drains SE.; asc. 280 ft. over steep NE. slope.
79.98	The cor. of secs. 2, 3, 10 and 11.
	Land, mountainous. Soil, sandy, rocky. Timber, dense pinon and juniper.
	From the cor. of secs. 15, 16, 21 and 22, hereinbefore described.
	S. 89° 58' W., bet. secs. 16 and 21.

Survey of a Portion of the Subdivision of T. 17 S., R. 23 E.

Chains	
	Over broken, mountainous land, through dense timber; by triangula desc. about 360 ft. over W. slope.
30.00	Road, graded, bears N. and S.; wash in bottom of fork of Westwater Canyon, drains S. asc. about 90 ft. to ¼ sec. cor., over E. slope.
31.00	End of one triangulation, beginning of another; asc. about 810 ft. over broken E. slope.
40.00	Point for the ¼ sec. cor. of secs. 16 and 21.
	Set an iron post, 30 ins. long, 2½ ins. diam., 20 ins. in the in a collar of stone, with brass cap mkd.
	T17S R23E ¼ S16 S21 1960
64.43	End of triangulation; asc. 40 ft. over gentle E. slope.
67.30	Ridge, bears N. and S.; desc. 130 ft. over W. slope.
79.13	Point selected for the witness cor. of secs. 16, 17, 20 and 21, on top of ledge, 60 ft. high, sloping W.
	Set an iron post, 30 ins. long, 2½ ins. diam., 12 ins. in the g to bedrock, in a mound of stone, 4 ft. base to top, with brass cap mkd.
	T17S R23E S17 | S16 S20 | S21 W C 1960
80.00	True point for cor. of secs. 16, 17, 20 and 21, falls on sloping ledge where cor. cannot be perpetuated.
	Land, mountainous, broken. Soil, sandy, rocky. Timber, dense pinon and juniper.
	N. 0° 03' W., bet. secs. 16 and 17.
	Over broken, mountainous land, through dense timber; asc. 260 ft. over SW. slope.
23.50	Spur, projects E.; desc. 730 ft. over steep N. slope.
39.50	Point selected for the witness ¼ sec. cor. of secs. 16 and 17.
	Set an iron post, 30 ins. long, 2½ ins. diam., 6 ins. in the ground to bedrock, in a mound of stone, 4 ft. base to top, with brass cap mkd.
	T17S R23E ¼ S17 | S16 W C 1960
40.00	True point for the ¼ sec. cor. falls in bottom of draw, drains NE. where cor. cannot be perpetuated; asc. about 100 ft. over SE. slope.

U. S. GOVERNMENT PRINTING OFFICE 16—26850-2

Survey of a Portion of the Subdivision of T. 17 S., R. 23 E.

Chains	
52.00	Spur, projects E.; beginning of triangulation; desc. 300 ft. over broken ledges on steep N. slope.
60.00	Approx. dist. to road, graded, in bottom of Hay Canyon, bears SE. and NW.
60.50	Approx. dist. to wash, 40 lks. wide, 6 ft. deep, drains SE.; asc. abruptly about 300 ft. over broken ledges on S. slope.
69.50	Top of ledges, 200 ft. high, bears SE. and NW.; asc. about 210 ft. over S. slope.
69.86	End of triangulation.
80.00	Point for the cor. of secs. 8, 9, 16 and 17.
	Set an iron post, 30 ins. long, 2½ ins. diam., 6 ins. in the ground, in a mound of stone, 4 ft. base to top, with brass cap mkd.
	T17S R23E S8 | S9 S17 | S16 1960
	from which
	A capped well of Sun Ray Midcontinent Oil Co., Utah Federal No. 1, bears N, 62° 28' W., 51.33 chs, dist.
	Land, mountainous, broken. Soil, sandy, rocky. Timber, dense pinon and juniper.
	From the cor. of secs. 9, 10, 15 and 16.
	N. 89° 53' W., bet. secs. 9 and 16.
	Over broken land, through dense timber; by triangulation; desc. 500 ft. over broken W. slope.
20.00	Approx. dist. to bottom of fork of Westwater Canyon, drains S.; asc. 500 ft. over broken ledges on E. slope.
39.00	West rim of canyon, ledge 60 ft. high, bears N. and S.
40.02	Point for the ¼ sec. cor. of secs. 9 and 16.
	Set an iron post, 30 ins. long, 2½ ins. diam., 3 ins. in the ground to bedrock, in a mound of stone, 4 ft. base to top, with brass cap mkd.
	T17S R23E ¼ S 9 S16 1960
40.42	End of triangulation; asc. 80 ft. over gentle E. slope.
55.20	Small spur, projects S.; desc. 100 ft. over SW. slope.
67.30	Small draw, drains S.; cont. along S. slope.
77.00	Top of ledge, 50 ft. high, bears NW. and SE.; desc. abruptly 100 ft. over SW. slope.

Survey of a Portion of the Subdivision of T. 17 S., R. 23 E.

Chains	
80.04	The cor. of secs. 8, 9, 16 and 17.
	Land, mountainous, broken. Soil, shallow sand, exposed sandstone. Timber, dense pinon and juniper.
	From the cor. of secs. 4, 5, 32 and 33, on the S. bdy. of the Tp., monumented with an iron post, 2½ ins. diam., set, mkd. and witnessed as described in the 1960 field notes of the N. bdy. of T. 18 S., R. 23 E.
	N. 0° 03' W., bet. secs. 32 and 33.
	Over broken land; through dense timber; by triangulation; desc. about 400 ft. over steep NW. slope.
20.00	Approx. dist. to bottom of draw, drains NE.; asc. about 300 ft. over SE. slope.
40.00	Point for the ¼ sec. cor. of secs. 32 and 33 falls on perpendicular ledges, bears E. and W. where cor. cannot be perpetuated.
43.60	Point selected for the witness ¼ sec. cor. of secs. 32 and 33.
	Set an iron post, 30 ins. long, 2½ ins. diam., 12 ins. in the ground to bedrock, in a mound of stone, 4 ft. base to top, with brass cap mkd. T17S R23E ¼ S32 | S33 W C 1960
52.30	Ridge, bears NE. and SW.; end of triangulation; desc. 490 ft. along W. slope.
80.00	Point for the cor. of secs. 28, 29, 32 and 33.
	Set an iron post, 30 ins. long, 2½ ins. diam., 16 ins. in the ground, in a collar of stone, with brass cap mkd. T17S R23E S29 | S28 S32 | S33 1960
	Land, mountainous. Soil, gravelly, rocky. Timber, dense pinon, juniper and fir.
	From the cor. of secs. 5, 6, 31 and 32, on the S. bdy. of the Tp., monumented with a 2½ ins. iron post, set, mkd. and witnessed as described in the 1960 field notes of the N. bdy. of T. 18 S., R. 23 E.
	N. 0° 03' W., bet. secs. 31 and 32.
	Over broken land, through dense timber.

U. S. GOVERNMENT PRINTING OFFICE 16—28530-2

of a Portion of the Subdivision of T. 17 S., R. 23 E.

Chains	
	By triangulation; asc. about 620 ft. over abrupt, broken S. slope.
12.75	End of triangulation.
15.00	Spur, projects E.; desc. 340 ft. over steep N. slope.
27.80	Small draw, drains NE.; asc. 60 ft. over SE. slope.
35.70	Spur, projects E.; desc. 540 ft. over NW. slope.
35.76	Point selected for the witness ¼ sec. cor. of secs. 31 and 32.
	Set an iron post, 30 ins. long, 2½ ins. diam., 10 ins. in the ground to bedrock, in a mound of stone, 3½ ft. base to top, with brass cap mkd.
	T17S R23E ¼ W C S31 | S32 1960
40.00	True point for the ¼ sec. cor. of secs. 31 and 32 falls on broken ledges where cor. cannot be perpetuated.
80.00	Point for the cor. of secs. 29, 30, 31 and 32.
	Set an iron post, 30 ins. long, 2½ ins. diam., 22 ins. in the ground, with brass cap mkd.
	T17S R23E S30 | S29 S31 | S32 1960
	Deposit charcoal at base of iron post.
	Land, mountainous, broken. Soil, sandy, rocky. Timber, dense pinon and juniper, scattered fir.
	From the cor. of secs. 28, 29, 32 and 33.
	S. 89° 54' W., bet. secs. 29 and 32.
	Over broken land, through dense timber; by triangulation; desc. about 100 ft. over W. slope.
8.00	Approx. dist. to draw, drains NE.; asc. about 1,070 ft. over steep, broken E. slope.
40.05	Point for the ¼ sec. cor. of secs. 29 and 32, about 600 ft. above draw.
	Set an iron post, 30 ins. long, 2½ ins. diam., 8 ins. in the ground, in a mound of stone, 4 ft. base to top, with brass cap mkd.
	T17S R23E ¼ S29 S32 1960
57.05	End of triangulation.
58.00	Spur, projects N. about 540 ft. over steep NW. slope.
80.10	The cor. of secs. 29, 30, 31 and 32. Land, mountainous, broken.

Chains

Soil, sandy, rocky, gravelly loam.
Timber, medium dense pinon, juniper and pine.

General Description

T. 17 S., R. 23 E. is mountainous, broken land, varying in elevation from 6,000 to 8,000 feet above sea level. The area is drained in a southeasterly direction by Westwater Creek, Hay Canyon and Middle Canyon.

There are graded roads in Hay Canyon and Westwater Creek and trail roads in the side canyons. There is a permanent stream of water in Westwater Creek about 10 links wide and 4 inches deep. There are four oil wells in the township.

Oil Well No. C-18-4 and Government well No. 1, are located in the NE ¼ of the NE¼ of the NE¼ of section 13.

A capped well of Oil Inc. is located in the SE¼ of the NW¼ of the SE¼ of section 12.

Utah Federal No. 1 of the SunRay Midcontinent Oil Co. is located in the SE¼ of the NE¼ of the SW¼ of section 8.

Timber in the area is dense pinon and juniper with scattered pine and fir. The soil is shallow sand with exposed sandstone on the ridges and gravelly loam in the bottom of canyons.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FIELD ASSISTANTS

NAMES	CAPACITY
Alburn D. Griffin	Crew Chief
Glen B. Hatch	Transitman
Gary T. Oviatt	Chainman
[illegible] G. Haycock	Chainman, Sawyer
David Hickman	Fl[illegible]
Rex J. Edwards	Cornerman

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CERTIFICATE OF CADASTRAL SURVEYOR

I, George D. Voorhees, HEREBY CERTIFY upon honor that, in pursuance of special instructions bearing date of the 15th day of September, 19 60. I have ~~surveyed~~ supervised the retracement of the south boundary of T. 16 S., R. 23 E., the dependent resurvey of the west boundary of T. 17 S., R. 24 E., and the survey of a portion of the subdivisional lines of T. 17 S., R. 23 E.

of the Salt Lake Meridian, in the State of Utah, which are represented in the foregoing field notes as having been executed ~~by me~~ under my direction; and that said 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.

Salt Lake City, Utah
(Date)

George D. Voorhees
(Cadastral Surveyor)
George D. Voorhees

September 6, 1961
(Date)

(Cadastral Surveyor)

CERTIFICATE OF APPROVAL

BUREAU OF LAND MANAGEMENT,

Washington, D. C., JUL 19 1962, 19___

The foregoing field notes of the ~~survey of~~ retracement of the south boundary of T. 16 S., R. 23 E., dependent resurvey of the west boundary of T. 17 S., R. 24 E., and the survey of a portion of the subdivisional lines of T. 17 S. R. 23 E., Salt Lake Meridian, Utah

executed by A. D. Griffin, Cadastral Surveyor, under the supervision of George D. Voorhees, Cadastral Surveyor
having been critically examined and found correct, are hereby approved.

E. E. Lennington
~~(Cadastral Engineering Staff Officer)~~
Chief, Division of Engineering

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.~~

~~(Date)~~

~~(Cadastral Engineering Staff Officer)~~

GPO 882650

4—979 1948)

ORIGINAL

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UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

ORIGINAL

FIELD NOTES

OF THE

DEPENDENT RESURVEY

OF TOWNSHIP 19 SOUTH, RANGE 22 EAST

AND THE SURVEY

OF THE EAST AND NORTH BOUNDARIES

AND A PORTION OF THE SUBDIVISION

OF

TOWNSHIP 18 SOUTH, RANGE 22 EAST

Of the Salt Lake *Meridian,*

the State of Utah

EXECUTED BY

D. Voorhees, Cadastral [illegible] (Chief of Party)

Eldon W. Sibley, Surveying Technician

Glen B. Hatch, Surv[illegible] Technician

der special instructions dated September 15, *19*58, *which provided the surveys included under Group No.* 402, *approved* September 30, 1958

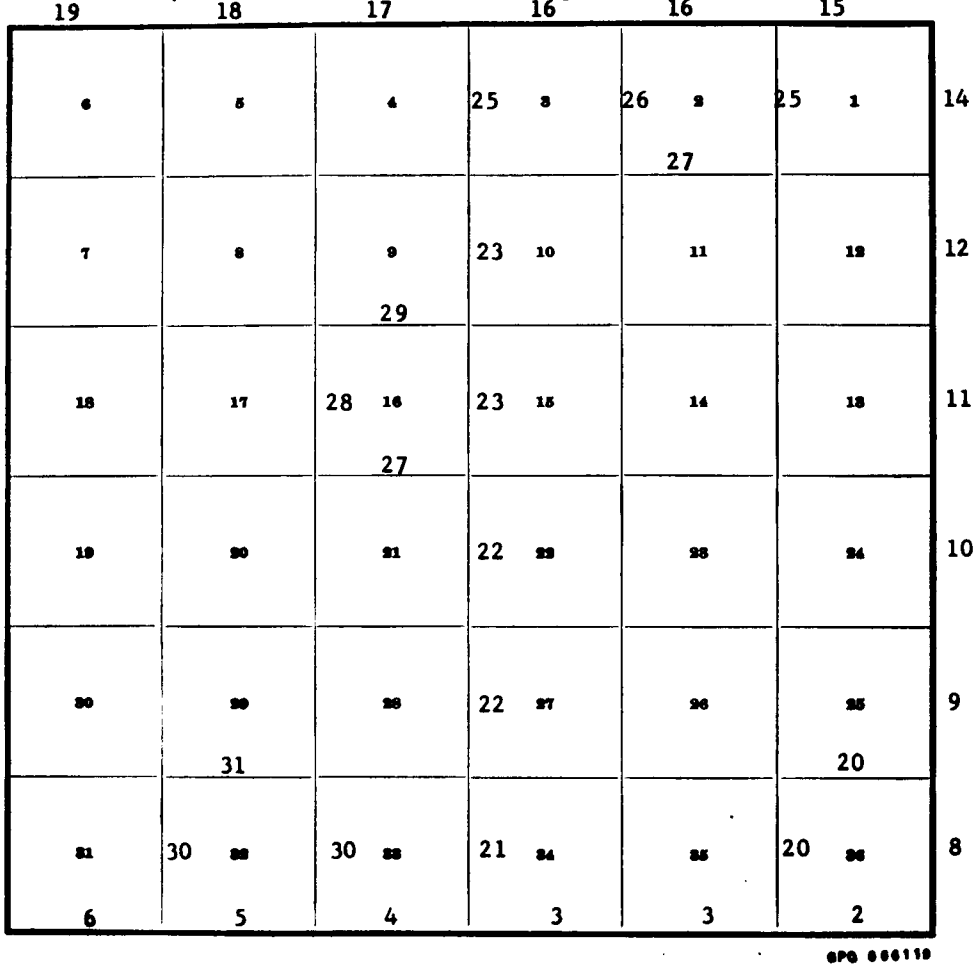
assignment instructions dated April 14, *19*60

Survey commenced May 17, *19*60

Survey completed July 28, *19*60

INDEX DIAGRAM

Township 18 South, *Range* 22 East



19	18	17	16	16	15	
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7	8	9 29	23 10	11	12	12
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GPO 866119

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18 South, 22 East

Chains

The south boundary was originally surveyed by H. D. Heist and W. A. Stumm in 1909. The west boundary was surveyed by J. C. Clark and W. H. Good in 1921.

The following field notes are those of the dependent resurvey of the south boundary and the survey of the east and north boundaries, and a portion of the subdivisional lines of T. 18 S., R. 22 E., deemed sufficient in extent to facilitate development of the natural resources and mark the boundaries of those sections that normally are considered state school sections.

Before restoring corners the lines of the original survey were retraced and a diligent search made for any evidence of the original corners. The rules of proportionate measurement were applied after every possibility of finding direct evidence of the lost corners had been exhausted.

The survey was executed with W. & L. E. Gurley solar transits, Nos. 491037 and 580158, constructed in accordance with the standard instrumental specifications of the Bureau of Land Management. The instruments were in good condition prior to the beginning of the survey and were maintained in proper adjustment throughout the progress of this survey.

Corners on east-west lines were set on the true latitudinal curve. Lines connecting previously established corners were run by random and true method, but for simplification of the record the random lines are omitted from the field notes. In accordance with the intent of the special instructions, all subdivisional corners established are calculated to be at the position they would occupy if the entire township were subdivided.

Measurements herein contained were made with a narrow steel tape, 8 chains in length, graduated every link for the first 100 links and thereafter at intervals of 10 links. The tape was tested by comparison with a one chain standard steel tape and found to be correct. Measurements were made on the slope with the vertical angle of each interval ascertained by a clinometer in good adjustment; horizontal equivalents alone are entered in the field notes. All lines of this survey were run by direct method where the lines were accessible; lines inaccessible were run by traverse or triangulation methods. The details of such traverses or triangulations have been thoroughly checked and verified, and in order to simplify the record the diagrams and reductions are omitted from these field notes.

The directions of the lines of this survey were determined by reference to true meridians established on line by hour angle observations on Polaris or altitude observations on the sun. The lines were carried forward by sustained angulation being supplemented by other numerous altitude observations on the sun taken throughout the progress of the survey.

The geographic position for the southeast corner of the township is at latitude 39° 11' 24.5" N. and longitude 109° 25' 28.0" W. as adjusted from traverses to U.S.C. & G.S. triangulation stations within the area.

The magnetic declination was read at a number of stations throughout the township and the average of these readings was found to be 15° 30' East.

U. S. GOVERNMENT PRINTING OFFICE 16—28630-2

Resurvey, N. Bdy., T. 19 S., R. 22 E.

Chains	
	Dependent Resurvey of the North Boundary of T. 19 S., R. 22 E., and Establishment Thereon of Corners for T. 18 S., R. 22 E., at Intervals of 40.00 Chains from the Corner of Tps. 18 and 19 S., Rs. 22 and 23 E.
	Reestablishment of the survey executed by H. D. Heist and W. A. Stumm in 1909.
	Beginning at the cor. of Tps. 18 and 19 S., Rs. 22 and 23 E., an iron post, 3 ins. diam., set, mkd. and witnessed as described in the official records.
	S. 89° 16' W., along the N. bdy. of sec. 1.
	Over broken land, through dense timber; desc. 270 ft. over steep W. slope.
14.50	Top of sandstone ledge on E. rim of canyon, 150 ft. high, bears N. and S.; by triangulation, desc. about 800 ft. over steep and ledgy W. slope.
30.00	Base of descent, bears N. and S.; enter Harm's Canyon.
34.10	Creek, 10 lks. wide, 6 ins. deep, in wash, 1 ch. wide, 15 ft. deep, course SE.
39.95	The ¼ sec. cor. of secs. 1 and 36, a sandstone 20x8x5 ins., firmly set, mkd. and witnessed as described in the official record.
	At the cor. point
	Set an iron post, 30 ins. long, 2½ ins. diam., 20 ins. in the ground, with brass cap mkd.
	T18S R22E ¼ S36 S 1 T19S 1960
	Raise a mound of stone, 3 ft. base, 2½ ft. high, N. of cor.
	Deposit original cor. alongside the iron post.
	N. 89° 48' W., beginning new measurement.
1.40	Trail road, bears SE. and NW.
3.00	Leave canyon; by triangulation, asc. about 800 ft. over precipitous E. slope.
27.20	W. rim of canyon, bears N. and S.; desc. 30 ft. over W. slope. End triangulation.
40.09	The cor. of secs. 1, 2, 35 and 36, monumented by an iron post, 3 ins. diam., set, mkd. and witnessed as described in the official record.
	Land, mountainous. Soil, sand and exposed sandstone. Timber, medium dense scrub juniper and pinon, scattered cottonwood in bottom of canyon.

U. S. GOVERNMENT PRINTING OFFICE 16—26520-2

Chains	
	N. 89° 51' W., along the N. bdy. of sec. 2.
	Over broken land, through dense timber; desc. 430 ft. over steep W. slope.
39.94	Point for the ¼ sec. cor. of secs. 2 and 35, at proportionate dist.; there is no remaining evidence of the original cor.
	Set an iron post, 30 ins. long, 2½ ins. diam., 10 ins. in the ground and in a mound of stone to top, 3½ ft. base, with brass cap mkd. T18S R22E ¼ S35 S 2 T19S 1960
	Thence by triangulation; desc. about 250 ft. over steep W. slope.
42.00	Wash, 30 lks. wide, 3 ft. deep, drains S.; asc. about 700 ft. over steep and ledgy E. slopes.
79.88	The cor. of secs. 2, 3, 34 and 35, an iron post, 3 ins. diam., set, mkd. and witnessed as described in the official record.
	Land, mountainous. Soil, shallow sand and exposed sandstone. Timber, dense scrub juniper and pinon.
	N. 89° 46' W., along the N. bdy. of sec. 3.
	Over broken land, through scattering timber; asc. 20 ft. over E. slope.
1.20	Ridge, bears N. and S.; desc. 30 ft.; end triangulation.
3.50	Top of sandstone ledge, 50 ft. high, bears N. and S.; thence by triangulation, desc. about 700 ft. over steep W. slope.
30.00	Wash, 30 lks. wide, 3 ft. deep, drains S.; asc. about 300 ft. over steep E. slope.
38.50	Spur, slopes S.; desc. 40 ft. over W. slope. End triangulation.
39.47	Point for the ¼ sec. cor. of sec. 3 at proportionate dist.; there is no remaining evidence of the original cor.
	Set an iron post, 30 ins. long, 2½ ins. diam., 6 ins. in the ground and in a mound of stone to top, 4 ft. base, with brass cap mkd. ¼ S 3 T19S 1960
40.00	Point for the ¼ sec. cor. of sec. 34.
	Set an iron post, 30 ins. long, 2½ ins. diam., 12 ins. in the ground and in a mound of stone to top, 3½ ft. base, with brass cap mkd.

Dependent Resurvey, T. N. Bdy., T. 19 S., R. 22 E.

Chains	
	T18S R22E ¼ S34 T19S 1960
	Thence by triangulation; desc. about 100 ft. over steep W. slope.
45.00	Small wash, drains S.; asc. about 800 ft. over steep SE. slope.
78.94	The cor. of secs. 3, 4, 33 and 34, an iron post, 3 ins. in diam., set, mkd. and witnessed as described in the official record.
	I now remark the brass cap to read as follows T18S R22E S 4 | S 3 T19S 1909 1960
	Land, mountainous. Soil, shallow sand and exposed sandstone. Timber, scattering scrub juniper and pinon.
	N. 89° 52' W., along the N. bdy. of sec. 4.
	Over broken land, through scattering timber; asc. 10 ft.
1.06	Point for the cor. of secs. 33 and 34.
	Set an iron post, 30 ins. long, 2½ ins. diam., 12 ins. in the ground and in a mound of stone, to top, 4 ft. base, with brass cap mkd. T18S R22E S33 | S34 T19S 1960
4.80	Spur, slopes S.; cont. by triangulation; desc. about 700 ft. over W. slope.
22.00	Enter Cottonwood Canyon, through dense undergrowth.
25.80	Cottonwood Creek, 10 lks. wide, 6 ins. deep, in wash, 1 ch. wide, 15 ft. deep, course SE.
28.00	Base of ascent, bears N. and S.; asc. about 600 ft. over precipitous E. slope.
40.16	Point for the ¼ sec. cor. of sec. 4, at proportionate dist.; there is no remaining evidence of the original cor.
	Set an iron post, 30 ins. long, 2½ ins. diam., 10 ins. in the ground and in a mound of stone to top, 3½ ft. base, with brass cap mkd.

Dependent Resurvey, N. Bdy., T. 19 S., R. 22 E.

Chains	
	T18S R22E ¼ S 4 T19S 1960
	Asc. 20 ft.
41.06	Point for the ½ sec. cor. of secs. 33.
	Set an iron post, 30 ins. long, 2½ ins. diam., 8 ins. in the ground and in a mound of stone to top, 3½ ft. base, with brass cap mkd.
	T18S R22E ½ S33 T19S 1960
	Cont. by triangulation; asc. about 350 ft. over steep E. slope.
60.50	Spur, slopes NE.; desc. 40 ft. over NW. slope. End triangulation.
63.90	Spur, slopes N.; desc. 290 ft. along N. slope.
80.32	The cor. of secs. 4, 5, 32 and 33, monumented by an iron post, 3 ins. diam., set, mkd. and witnessed as described in the official record.
	I now remark the brass cap to read as follows
	T18S R22E S 5 | S 4 T19S 1960
	Land, mountainous. Soil, shallow sand and exposed sandstone. Timber, scattered juniper and pinon.

	N. 89° 53' W., along the N. bdy. of sec. 5.
	Over broken land; along N. slope.
.74	Point for the cor. of secs. 32 and 33.
	Set an iron post, 30 ins. long, 2½ ins. diam., 12 ins. in the ground and in a mound of stone to top, 4 ft. base, with brass cap mkd.
	T18S R22E S32 | S33 T19S 1960
	Asc. 50 ft. along N. slope.
14.20	Spur, slopes N.; desc. 150 ft. along N. slope.
21.40	Wash, 20 lks. wide, 1 ft. deep, drains N.; asc. 230 ft. along N. slope.
35.10	Spur, slopes N.; desc. 60 ft. along N. slope.
40.14	Point for the ½ sec. cor. of sec. 5, at proportionate dist., falls in wash, 20 lks. wide, 3 ft. deep, drains N., and cannot be perpetuated; there is no remaining evidence of the original cor.

U. S. GOVERNMENT PRINTING OFFICE 16—88590-2

Dependent Resurvey, N. Bdy., T. 19 S., R. 22 E.

Chains	
40.74	Point for the ¼ sec. cor. of sec. 32 falls on steep bank of wash and cannot be perpetuated.
40.90	Point selected for the witness ¼ sec. cor. of sec. 5. Set an iron post, 30 ins. long, 2½ ins. diam., 3 ins. in the ground and in a mound of stone to top, 3½ ft. base, with brass cap mkd. T18S R22E ¼ S 5 → W C T19S 1960
40.93	Point selected for the witness ¼ sec. cor. of sec. 32. Set an iron post, 30 ins. long, 2½ ins. diam., 3 ins. in the ground and in a mound of stone to top, 3½ ft. base, with brass cap mkd. T18S R22E ¼ S32 → W C T19S 1960
	Asc. 160 ft. over steep E. slope.
56.80	Spur, slopes N.; desc. 210 ft. over steep W. slope.
67.00	Wash, 30 lks. wide, 4 ft. deep, drains N.; asc. 130 ft. over steep E. slope.
73.30	Spur, slopes N.; desc. 230 ft. over steep W. slope.
80.28	The cor. of secs. 5, 6, 31 and 32, monumented by an iron post, 3 ins diam., set, mkd. and witnessed as described in the official record. I now remark the brass cap to read as follows T18S R22E S 6 | S 5 T19S 1909 1960
	Land, mountainous. Soil, shallow sand and exposed sandstone. Timber, scattering juniper and pinon, dense oak brush.
	N. 89° 49' W., along the N. bdy. of sec. 6.
	Over broken land, through scattered timber; desc. 10 ft. over W. slope.
.46	Point for the cor. of secs. 31 and 32. Set an iron post, 30 ins. long, 2½ ins. diam., 10 ins. in the ground and in a mound of stone to top, 3 ft. base, with brass cap mkd.

U. S. GOVERNMENT PRINTING OFFICE 16—26490-2

Dependent Resurvey, N. Bdy., T. 19 S., R. 22 E.

Chains	
	T18S R22E S31 | S32 T19S 1960
	Desc. 130 ft. over steep W. slope.
7.00	Enter Cottonwood Canyon.
16.40	Wash, 1 ch. wide, 15 ft. deep, drains NE.; by triangulation, asc. about 300 ft. over steep E. slope.
40.18	The ¼ sec. cor. of secs. 6 and 31, a sandstone 14x12x8 ins., plainly mkd. and firmly set, as described in the official record.
	At the point for the cor.
	Set an iron post, 30 ins. long, 2½ ins. diam., 10 ins. in the ground and in a mound of stone to top, 4 ft. base, with brass cap mkd.
	T18S R22E ¼ S 6 T19S 1960
	N. 89° 37' W., beginning new measurement.
.28	Point for the ¼ sec. cor. of sec. 31.
	Set an iron post, 30 ins. long, 2½ ins. diam., 16 ins. in the ground and in a mound of stone to top, 4 ft. base, with brass cap mkd.
	T18S R22E ¼ S31 T19S 1960
	Cont. by triangulation; asc. about 150 ft. over steep E. slope.
7.40	Spur, slopes S.; desc. 340 ft. over W. slope.
18.10	Leave timber, enter canyon, bears N. and S.
21.60	Wash, 30 lks. wide, 4 ft. deep, drains S.
25.70	Leave canyon; asc. 200 ft. over E. slope, through scattered timber.
33.90	Spur, slopes S.; desc. 90 ft. over W. slope; end triangulation.
38.75	The closing cor. of Tps. 18 and 19 S., R. 22 E., monumented by an iron post, 3 ins. diam., set, mkd. and witnessed as described in the official record.
	From this closing cor. the cor. of Tps. 18 and 19 S., R. 21 E., bears N. 18.13 chs. dist. monumented by a 3 in. iron post, set, mkd. and witnessed as described in the official record.
	Land, mountainous. Soil, shallow sand and exposed sandstone. Timber, scattered juniper and pinon. Undergrowth, dense sagebrush in canyon.

U.S. GOVERNMENT PRINTING OFFICE 16—88490-2

Chains

Survey of the East Boundary of T. 18 S., R. 22 E. with the Establishment of Corners for the West Boundary of T. 18 S., R. 23 E., at regular Intervals North and South from the Corner of Sections 30 and 31, Which Corner is Established on a Sectional Correction Line at a Point 80.00 Chains Northing from the Southeast Corner of T. 18 S., R. 23 E.

Beginning at the cor. of Tps. 18 and 19 S., Rs. 22 and 23 E., an iron post, 3 ins. diam., set, mkd. and witnessed as deseribed in the official record.

North, along the E. bdy. of sec. 36.

Over broken land, desc. 50 ft. over NE. slope.

2.00 Top of sandstone ledge, 60 ft. high, bears E. and N. By triangulation desc. about 450 ft. along E. slope.

14.00 Head of ravine, drains E.; asc. about 400 ft. over S. slope.

34.80 Ridge, bears E. and W.; end triangulation, desc. 40 ft. over N. slope.

35.36 Point for the ¼ sec. cor. of sec. 31, T. 18 S., R. 23 E.

Set an iron post, 30 ins. long, 2½ ins. diam., 6 ins. in the ground and in a mound of stone to top, 4 ft. base, with brass cap mkd.

T18S
R22E | R23E
¼
S31
1960

Desc. 30 ft. over N. slope.

40.00 Point for the ¼ sec. cor. of sec. 36.

Set an iron post, 30 ins. long, 2½ ins. diam., 8 ins. in the ground and in a mound of stone to top, 3½ ft. base, with brass cap mkd.

T18S
R22E | R23E
¼
S36
1960

By triangulation, desc. about 300 ft. over N. slope, through dense timber.

75.36 Point for the cor. of secs. 30 and 31, T. 18 S., R. 23 E.; end of triangulation.

Set an iron post, 30 ins. long, 2½ ins. diam., 16 ins. in the ground and in a mound of stone to top, 3½ ft. base, with brass cap mkd.

T18S
R22E | R23E
S30
S31
1960

Desc. 50 ft. over N. slope.

80.00 Point for the cor. of secs. 25 and 36.

Set an iron post, 30 ins. long, 2½ ins. diam., 16 ins. in the ground and in a mound of stone to top, 3½ ft. base, with brass cap mkd.

Survey, E. Bdy., T. 18 S., R. 22 E.

Chains	
	T18S R22E R23E S25 S36 1960
	Land, mountainous. Soil, shallow sand and exposed sandstone. Timber, dense scrub juniper and pinon. Undergrowth, scattered scrub oak and sagebrush.
	North, along the E. bdy. of sec. 25.
	Over broken land, through dense timber; desc. 20 ft. over N. slope.
1.50	Small wash, drains W.; asc. 100 ft. over S. slope.
10.30	Top of ridge, bears E. and W.; by triangulation, desc. about 600 ft. over steep and ledgy N. slope.
35.36	Point for the ¼ sec. cor. of sec. 30, T. 18 S., R. 23 E.
	Set an iron post, 30 ins. long, 2½ ins. diam., 10 ins. in the ground and in a mound of stone to top, 3½ ft. base, with brass cap mkd.
	T18S R22E R23E ¼ S30 1960
	Desc. 90 ft. over N. slope.
40.00	Point for the ¼ sec. cor. of sec. 25.
	Set an iron post, 30 ins. long, 2½ ins. diam., on solid sandstone over a cross (X) and in a mound of stone to top, 4½ ft. base, with brass cap mkd.
	T18S R22E R23E ¼ S25 1960
	Desc. 50 ft. over N. slope.
41.00	S. rim of small ravine; desc. 60 ft. over N. slope.
42.50	Wash, 30 lks. wide, 3 ft. deep, drains SE.; asc. 180 ft. over S. slope.
70.00	Base of abrupt ascent, bears E. and W.; asc. 150 ft. over S. slope.
75.26	Point selected for the witness cor. of secs. 19 and 30, T. 18 S., R. 23 E. Set an iron post, 30 ins. long, 2½ ins. diam., 3 ins. in the ground and in a mound of stone to top, 4 ft. base, with brass cap mkd.

U. S. GOVERNMENT PRINTING OFFICE 16—26520-2

110

Survey, E. Bdy., T. 18 S., R. 22 E.,

Chains	
	T18S R22E R23E W C S19 S30 1960
75.36	Point for the cor. of secs. 19 and 30 falls on ledge facing S. and cannot be perpetuated.
	Cont. by triangulation; asc. about 300 ft. over ledgy S. slope.
80.00	Point for the cor. of secs. 24 and 25 falls on ledge 50 ft. high and cannot be perpetuated.
	Land, mountainous. Soil, shallow sand and exposed sandstone. Timber, medium dense scrub juniper and pinon. Undergrowth, scattered scrub oak and sagebrush.
	North along the E. bdy. of sec. 24.
	Over broken land; asc. about 100 ft. over S. slope.
6.18	Point selected for the witness cor. of secs. 24 and 25.
	Set an iron post, 30 ins. long, 2½ ins. diam., 10 ins. in the ground and in a mound of stone to top, 4 ft. base, with brass cap mkd.
	T18S R22E R23E S24 S25 W C 1960
	Asc. 120 ft. over S. slope.
9.30	Ridge, bears E. and W.; by triangulation, desc. about 200 ft. over N. slope.
26.00	Rim of ravine, bears N. 10° E. and S. 10° W.; desc. about 80 ft. along W. slope.
35.36	Point for the ¼ sec. cor. of sec. 19, T. 18 S., R. 23 E.
	Set an iron post, 30 ins. long, 2½ ins. diam., 6 ins. in the ground and in a mound of stone to top, 3½ ft. base, with brass cap mkd.
	T18S R22E R23E ¼ S19 1960
	Desc. 50 ft. along W. slope.
40.00	Point for the ¼ sec. cor. of sec. 24.
	Set an iron post, 30 ins. long, 2½ ins. diam., 10 ins. in the ground and in a mound of stone to top, 4 ft. base, with brass cap mkd.

Chains	
	T18S R22E | R23E ¼ S24 1960
	Desc. 30 ft. along W. slope.
41.20	Wash, 30 lks. wide, 3 ft. deep, drains SW.; asc. 60 ft. over SE. slope.
46.40	N. rim of ravine, bears NE. and SW.; cont. by triangulation, asc. about 250 ft. over S. slope.
66.10	Spur, slopes E.; asc. 80 ft. along E. slope.
75.36	Point for the cor. of secs. 18 and 19, T. 18 S., R. 23 E.
	Set an iron post, 30 ins. long, 2½ ins. diam., 12 ins. in the ground and in a mound of stone to top, 3½ ft. base, with brass cap mkd.
	T18S R22E | R23E S18 S19 1960
	Asc. 10 ft. along E. slope.
80.00	Point for the cor. of secs. 13 and 24.
	Set an iron post, 30 ins. long, 2½ ins. diam., 6 ins. in the ground and in a mound of stone to top, 4 ft. base, with brass cap mkd.
	T18S R22E | R23E S13 S24 1960
	Land, mountainous. Soil, shallow sand and exposed sandstone. Timber, dense scrub juniper and pinon. Undergrowth, scattered scrub oak and sagebrush.
	North, along the E. bdy. of sec. 13.
	Over broken land, through dense timber; asc. 30 ft. along E. slope.
2.10	Spur, projects E., 20 lks.; cont. by triangulation, desc. about 400 ft. over broken NE. slope.
21.30	Small spur, slopes SE.; end of triangulation; desc. 340 ft. over NE. slope.
35.36	Point for the ¼ sec. cor. of sec. 18, T. 18 S., R. 23 E.
	Set an iron post, 30 ins. long, 2½ ins. diam., 12 ins. in the ground and in a mound of stone to top, 4 ft. base, with brass cap mkd.

Survey, E. Bdy., T. 18 S., R. 22 E.

Chains	
	T18S R22E R23E ¼ S18 1960
	Desc. 80 ft. over NE. slope.
40.00	Point for the ¼ sec. cor. of sec. 13.
	Set an iron post, 30 ins. long, 2½ ins. diam., 8 ins. in the ground and in a mound of stone to top, 4 ft. base, with brass cap mkd.
	T18S R22E R23E ¼ S13 1960
	By triangulation, desc. about 250 ft. over NE. slope.
47.00	Wash, 30 lks. wide, 3 ft. deep, drains S. 10° E. from N. 20° E.; asc. about 600 ft. over SE. slope.
75.36	Point for the cor. of secs. 7 and 18 falls on ledge facing SE.; cor. cannot be perpetuated.
75.76	Point selected for the witness cor. of secs. 7 and 18, T. 18 S., R. 23 E. Set an iron post, 30 ins. long, 2½ ins. diam., 12 ins. in the ground and in a mound of stone to top, 4 ft. base, with brass cap mkd.
	T18S R22E R23E S 7 S18 W C 1960
	Asc. 60 ft. over SE. slope.
80.00	Point for the cor. of secs. 12 and 13.
	Set an iron post, 30 ins. long, 2½ ins. diam., 16 ins. in the and in a mound of stone to top, 3½ ft. base, with brass cap mkd.
	T18S R22E R23E S12 S13 1960
	Land, mountainous. Soil, shallow sand and exposed sandstone. Timber, dense juniper and pinon with scattered spruce.
	North, along the E. bdy. of sec. 12.
	Over broken land, by triangulation; asc. about 600 ft. over steep and ledgy SE. slope.
35.36	Point for the ¼ sec. cor. of sec. 7, T. 18 S., R. 23 E.
	Set an iron post, 30 ins. long, 2½ ins. diam., 10 ins. in the and in a mound of stone to top, 4 ft. base, with brass cap mkd.

Chains	
	T18S R22E R23E ¼ S 7 1960
	Asc. 70 ft. over SE. slope.
40.00	Point for the ¼ sec. cor. of sec. 12, falls on sandstone ledge, 20 ft. high, facing SE, and cannot be perpetuated.
40.40	Point selected for the witness ¼ sec. cor. of sec. 12. Set an iron post, 30 ins. long, 2½ ins. diam., 6 ins. in the ground and in a mound of stone to top, 4 ft. base, with brass cap mkd. T18S R22E R23E ¼ S12 W C 1960
	Asc. 40 ft. over SE. slope.
41.40	Ridge, bears NE. and SW.; desc. 50 ft. over NW. slope.
45.20	Wash, 20 lks. wide, 3 ft. deep, drains SW.; asc. 270 ft. over SW. slope.
56.70	Ridge, bears E. and N. 10° W.; by triangulation, desc. about 350 ft. over NE. slope.
63.00	Wash, 20 lks. wide, 4 ft. deep, drains E.; asc. about 400 ft. over S. slope.
75.36	Point for the cor. of secs. 6 and 7, T. 18 S., R. 23 E. End triangulation. Set an iron post, 30 ins. long, 2½ ins. diam., 12 ins. in the ground and in a mound of stone to top, 3½ ft. base, with brass cap mkd. T18S R22E R23E S 6 S 7 1960
	Asc. 60 ft. over S. slope.
79.50	Spur, projects E. 5 chs.; desc. 10 ft. over NE. slope.
80.00	Point for the cor. of secs. 1 and 12. Set an iron post, 30 ins. long, 2½ ins. diam., 8 ins. in the ground and in a mound of stone to top, 4 ft. base, with brass cap mkd. T18S R22E R23E S 1 S12 1960
	Land, mountainous. Soil, shallow sand and exposed sandstone. Timber, dense juniper and pinon with scattered spruce.

Survey, E. Bdy. T. 18 S., R. 22 E.

Chains	
	North, along the E. bdy. of sec. 1.
	Over broken land, through dense timber; by triangulation, desc. about 600 ft. over steep and ledgy NE. slope.
16.00	Head of ravine, drains E.; asc. about 550 ft. over SE. slope.
35.36	Point for the ¼ sec. cor. of sec. 6, T. 18 S., R. 23 E.
	Set an iron post, 30 ins. long, 2½ ins. diam., 12 ins. in the ground and in a mound of stone to top, 4 ft. base, with brass cap mkd.
	T18S R22E | R23E ¼ S 6 1960
	Asc. 80 ft. over SE. slope.
40.00	Point for the ¼ sec. cor. of sec. 1.
	Set an iron post, 30 ins. long, 2½ ins. diam., 12 ins. in the ground and in a mound of stone to top; 4 ft. base, with brass cap mkd.
	T18S R22E | R23E ¼ S 1 1960
	Asc. 30 ft. over SE. slope.
45.90	Ridge, bears E. and W.; by triangulation, desc. about 800 ft. over steep N. slope.
75.36	Point for the 1/16 sec. cor. of sec. 6, T. 18 S., R. 23 E.
	Set an iron post, 30 ins. long, 2½ ins. diam., 14 ins. in the and in a mound of stone to top, 3 ft. base, with brass cap mkd.
	T18S R22E | R23E 1/16 S 6 80.00 1960
	Desc. 60 ft. over N. slope.
81.26	Point for the cor. of Tps. 17 and 18 S., Rs. 22 and 23 E.
	Set an iron post, 30 ins. long, 2½ ins. diam., 16 ins. in the and in a mound of stone to top, 3 ft. base, with brass cap mkd.
	T17S R22E | R23E S36 | S31 S 1 | S 6 T18S 1960
	Land, mountainous. Soil, sand and exposed sandstone. Timber, dense juniper and pinon, scattered spruce.

U. S. GOVERNMENT PRINTING OFFICE 16—22800-2

Chains	Survey of the North Boundary of T. 18 S., R. 22 E.
..	From the cor. of Tps. 17 and 18 S., Rs. 22 and 23 E.
..	Weak, bet. secs. 36 and 1.
	Over mountainous land, through medium dense timber.
	By triangulation, desc. about 20 ft. over NW. slope.
.50	Wash, 20 lks. wide, 3 ft. deep, drains NE.; asc. about 800 ft. over steep and ledgy E. slope.
21.40	End of triangulation.
30.80	Ridge, bears S. 60° W. and N.; desc. 50 ft. over NW. slope, through dense oak brush.
40.00	Point for the ¼ sec. cor. of secs. 1 and 36.
	Set an iron post, 30 ins. long, 2½ ins. diam., 16 ins. in the ground and in a mound of stone, 3½ ft. base, to top of post, with brass cap mkd. T17S R22E ¼ S36 / S 1 T18S 1960
40.50	Wash, drains N.; asc. about 40 ft. over E. slope.
42.60	Enter heavy stand of large spruce, bears N. and S.; desc. 30 ft. over W. slope.
44.80	Bottom of descent, drains N.; asc. 230 ft. over E. slope.
51.70	Leave timber, bears N. and S.; enter dense underbrush.
56.40	Ridge, bears N. and S.; thence by triangulation; desc. about 500 ft. over ledgy W. slope.
66.00	Approximate dist. to wash, 30 lks. wide, 3 ft. deep, drains S.; asc. about 400 ft. over E. slope.
78.60	Spur, projects S.; end of triangulation; desc. 20 ft. over W. slope.
80.00	Point for the cor. of secs. 1, 2, 35 and 36.
	Set an iron post, 30 ins. long, 2½ ins. diam., 6 ins. in the ground and in a mound of stone, 4 ft. base to top of post, with brass cap mkd. T17S R22E S35 | S36 S 2 | S 1 T18S 1960
	Land, mountainous. Soil, shallow sand and exposed sandstone outcroppings. Timber, medium dense pinon and juniper, scattered spruce and dense oak brush.

U. S. GOVERNMENT PRINTING OFFICE 16—65880-2

N. . T. 18 S. R. 22 E.

Chains	
	West, bet. secs. 2 and 35.
	Over broken land, through medium dense timber and undergrowth.
	By triangulation, desc. about 500 ft. over ledges on steep W. slope.
12.00	Approximate dist. to wash, 30 lks. wide, 3 ft. deep, drains S.; asc. about 300 ft. over E. slope.
22.00	Approximate dist. to spur, projects S. about 20.00 chs.; desc. about 300 ft. over W. slope.
34.00	Approximate dist. to wash, 40 lks. wide, 2 ft. deep, drains S.; asc. about 300 ft. over steep and ledgy E. slope.
40.00	Point for the ¼ sec. cor. of secs. 2 and 35 falls on inaccessible ledge sloping E. and is not monumented.
47.29	Point selected for the witness ¼ sec. cor. of secs. 2 and 35.
	Set an iron post, 30 ins. long, 2½ ins. diam., 12 ins. in the ground and in a mound of stone, 4 ft. base to top of post, with brass cap mkd.:
	T17S R22E ¼ S35 W S 2 C T18S 1960
52.10	Spur, 200 ft. above ¼ sec. cor., projects S.; end of triangulation. Cont. by triangulation; desc. about 500 ft. over W. slope.
65.00	Approximate dist. to wash, drains SE.; asc. about 500 ft. over E. slope.
74.30	End of triangulation.
76.50	Ridge, bears N. and S.; desc. 160 ft. over W. slope.
80.00	Point for the cor. of secs. 2, 3, 34 and 35.
	Set an iron post, 30 ins. long, 2½ ins. diam., 6 ins. in the ground and in a mound of stone, 3½ ft. base to top of post, with brass cap mkd.
	T17S R22E S34 | S35 S 3 | S 2 T18S 1960
	Land, mountainous. Soil, shallow sand with exposed sandstone. Timber, dense pinon and juniper, with scattered spruce and dense scrub oak underbrush.
	West, bet. secs. 3 and 34.
	Over mountainous land through dense timber.
	By triangulation, desc. about 500 ft. over W. slope.
18.00	Approximate dist. to wash, 20 lks. wide, 3 ft. deep, drains S.10° W.; asc. about 300 ft. over E. slope.

U. S. GOVERNMENT PRINTING OFFICE 16—68880-2

Chains	
28.00	Approximate dist. to spur, projects S. 10° W.; desc. about 300 ft. over W. slope.
38.00	Approximate dist. to wash, 30 lks. wide, 3 ft. deep, drains S.; asc. about 450 ft. over E. slope.
40.00	Point for the ¼ sec. cor. of secs. 3 and 34, 80 ft. above wash.
	Set an iron post, 30 ins. long, 2½ ins. diam., 12 ins. in the ground and in a mound of stone, 2½ ft. base to top of post, with brass cap mkd. T17S R22E ¼ S34 / S 3 T18S 1960
50.30	Spur, projects S. Cont. by triangulation; desc. about 400 ft. over W. slope.
65.00	Approximate dist. to wash, 20 lks. wide, 4 ft. deep, drains S.; asc. about 600 ft. over E. slope.
79.50	End of triangulation.
80.00	Point for the cor. of secs. 3, 4, 33 and 34.
	Set an iron post, 30 ins. long, 2½ ins. diam., 8 ins. in the ground and in a mound of stone, 3½ ft. base to top of post, with brass cap mkd. T17S R22E S33 | S34 S 4 | S 3 T18S 1960
	Land, mountainous. Soil, shallow sand with exposed sandstone. Timber, dense pinon and juniper, scattered spruce.
	West, bet. secs. 4 and 33.
	Over mountainous land, through dense timber.
	By triangulation, asc. about 400 ft. over steep E. slope.
13.75	Ridge, bears N. and S.; end of triangulation; desc. 740 ft. over W. slope.
40.00	Point for the ¼ sec. cor. of secs. 4 and 33.
	Set an iron post, 30 ins. long, 2½ ins. diam., 20 ins. in the ground and in a collar of stone, with brass cap mkd. T17S R22E ¼ S33 / S 4 T18S 1960
	By triangulation, asc. about 400 ft. over E. slope.
53.10	End of triangulation.

U. S. GOVERNMENT PRINTING OFFICE : 16—85860-2

, N. Bdy., T. 18 S., R. 22 E.

Chains	
53.50	Spur, projects S.; thence by triangulation, desc. about 500 ft. over W. slope.
63.00	Approximate dist. to wash, 20 lks. wide, 3 ft. deep, drains S.; asc. about 800 ft. over E. slope.
79.20	Ridge, bears N. and S.; end of triangulation.
80.00	Point for the cor. of secs. 4, 5, 32 and 33.
	Set an iron post, 30 ins. long, 2½ ins. diam., 8 ins. in the ground and in a mound of stone, 3½ ft. base to top of post, with brass cap mkd.

T17S R22E
S32 | S33
S 5 | S 4
T18S
1960

Land, mountainous.
Soil, shallow sand.
Timber, dense pinon and juniper, scattered spruce.

West, bet. secs. 5 and 32.

Over mountainous land, through dense timber.

By triangulation, desc. about 600 ft. over steep and broken NW. slope.

25.00	Approximate dist. to wash, 30 lks. wide, 3 ft. deep, drains SW.; asc. about 450 ft. over ledgy SE. slope.
40.00	Point for the ¼ sec. cor. of secs. 5 and 32 falls on inaccessible E. slope where cor. cannot be monumented.
46.20	Point selected for the witness ¼ sec. cor. of secs. 5 and 32.
	Set an iron post, 30 ins. long, 2½ ins. diam., 12 ins. in the ground and in a mound of stone, 3 ft. base to top of post, with brass cap mkd.

T17S R22E
¼ S32 → W
S 5 C
T18S
1960

46.70	Spur, projects S. about 10.00 chs.; desc. about 500 ft. over steep SW. slope.
76.00	Approximate dist. to bottom of ravine, drains S. 20° E.; asc. about 20 ft. over NE. slope.
80.00	Point for the cor. of secs. 5, 6, 31 and 32.
	Set an iron post, 30 ins. long, 2½ ins. diam., 22 ins. in the ground with brass cap mkd.

T17S R22E
S31 | S32
S 6 | S 5
T18S
1960

Survey, N. Bdy., T. 18 S., R. 22 E.

Chains	
	Land, mountainous, broken. Soil, sandy, rocky. Timber, dense pinon and juniper, scattered spruce, with scrub oak and mahogany undergrowth.
	West, bet. secs. 6 and 31.
	Over mountainous land through dense timber; cont. by triangulation.
	Asc. about 600 ft. over steep, broken NE. slope.
6.90	Enter heavy timber, bears N. and S.
24.00	Spur, projects N. 20° E.; leave timber, bears N. 20° E. and S.20° W., enter dense scrub oak; desc. about 60 ft. along N. slope.
28.50	Wash, 15 lks. wide, 2 ft. deep, drains N.; asc. about 30 ft. along N. slope.
40.00	Point for the ¼ sec. cor. of secs. 6 and 31.
	Set an iron post, 30 ins. long, 2½ ins. diam., 20 ins. in the ground and in a mound of stone, 2 ft. base to top of post, with brass cap mkd. T17S R22E ¼ S31 / S 6 T18S 1960
	Asc. about 140 ft. along NE. slope.
59.20	Ridge, bears S. 80° E. and N. 80° W.; asc. about 80 ft. along S. slope.
73.30	Ridge, bears S. 80° E. and N.; desc. about 220 ft. over W. slope.
77.98	Point for the closing cor. of Tps. 17 and 18 S., R. 22 E.
	Set an iron post, 30 ins. long, 2½ ins. diam., on solid stone and in a mound of stone, 5 ft. base to top of post, with brass cap mkd. T18S T17S R22E S 1 | S31 C R21E | S 6 C T18S 1960
	From this cor. the cor. of Tps. 17 and 18 S., R. 21 E. bears N.9.73 chs. and is monumented with a 3 in. iron post, set, mkd. and witnessed as described in the official record.
	Land, mountainous. Soil, sandy, rocky. Timber, dense pinon and juniper, scattered spruce E. 7.00 chs. and W. 5.00 chs.; dense scrub oak undergrowth in between.

10 S., R. 22 E.

Chains	
	From the cor. of secs. 1, 2, 35 and 36 on the S. bdy. of the Tp. monumented with a 2½ in. iron post, previously described.
	N. 0° 01' W., bet. secs. 35 and 36.
	Over broken, mountainous land, through dense timber.
	By triangulation; desc. about 140 ft. over N. slope.
15.00	Approximate dist. to ravine, drains NE.; asc. about 100 ft. over SE. slope.
33.90	Spur, projects NE. about 1.50 chs.; end of triangulation, desc. 470 ft. over NW. slope.
40.00	Point for the ¼ sec. cor. of secs. 35 and 36.
	Set an iron post, 30 ins. long, 2½ ins. diam., 8 ins. in the ground and in a mound of stone, 3 ft. base to top of post, with brass cap mkd.

T18S R22E

	¼	
S35		S36
	1960	

	Cont. by triangulation.
56.00	Approximate dist. to ravine, drains N. 60° E.; asc. about 480 ft. over broken and ledgy SE. slope.
77.40	Spur, projects E. about 5.00 chs.; end of triangulation; desc. 20 ft. over NE. slope.
80.00	Point for the cor. of secs. 25, 26, 35 and 36.
	Set an iron post, 30 ins. long, 2½ ins. diam., 4 ins. in the ground and in a mound of stone, 3½ ft. base to top of post, with brass cap mkd.

T18S R22E

S26	S25
S35	S36

1960

Land, mountainous, broken.
Soil, sandy loam, rocky.
Timber, dense pinon and juniper.
Undergrowth, mahogany and service berry.

	From the cor. of secs. 25 and 36 on the E. bdy. of the Tp.
	S. 89° 49' W., bet. secs. 25 and 36.
	Over broken, mountainous land through dense timber.
	Desc. 30 ft. over W. slope.
1.50	Spur, projects S.; desc. about 1,150 ft. over steep, broken NW. slope, by triangulation.
31.70	Approximate dist. to bottom of canyon, drains S. 15° E.; asc. about 890 ft. over broken ledges on steep NE. slope.

U. S. GOVERNMENT PRINTING OFFICE 16—68280-2

Survey, Portion of Subdivision, T. 18 S., R. 22 E.

Chains	
39.87	Point for the ¼ sec. cor. of secs. 25 and 36 falls on inaccessible NE. slope.
42.64	Point selected for the witness ¼ sec. cor. of secs. 25 and 36. Set an iron post, 30 ins. long, 2½ ins. diam., 6 ins. in the ground and in a mound of stone, 3 ft. base to top of post, with brass cap mkd. T18S R22E ¼ S25 → W S36 C 1960
42.70	End of triangulation on spur, projects S. 15° W.; thence by triangulation, desc. about 350 ft. over broken NW. slope.
61.70	Approximate dist. to Diamond Canyon, with stream of clear water, 4 lks. wide, 6 ins. deep, drains S. 15° E. Road, unimproved, on E. side of stream; asc. about 530 ft. over broken NE. slope.
79.74	The cor. of secs. 25, 26, 35 and 36. Land, mountainous, broken. Soil, shallow sand on ridges, deep loam in canyons. Timber, dense pinon and juniper, scattered cottonwood in Diamond Canyon.

From the cor. of secs. 33 and 34 on the S. bdy. of the Tp. monumented with a 2½ in. iron post, previously described.

N. 0° 02' W., bet. secs. 33 and 34.

Over broken land, through medium timber; cont. by triangulation.

Asc. about 290 ft. over broken SE. slope.

23.20	Ridge, bears N. and S. 10° W.; desc. about 80 ft. along W.
40.00	Point for the ¼ sec. cor. of secs. 33 and 34. Set an iron post, 30 ins. long, 2½ ins. diam., 10 ins. in the ground and in a mound of stone, 3½ ft. base to top of post, with brass cap mkd. T18S R22E ¼ S33 | S34 1960
40.30	Wash, 10 lks. wide, 2 ft. deep, drains W.; asc. about 100 ft. over S. slope.
45.30	Spur, projects W.; desc. about 100 ft. over N. slope.
79.70	Wash, 30 lks. wide, 3 ft. deep, drains S. 10° E.; asc. about 30 ft.
80.00	Point for the cor. of secs. 27, 28, 33 and 34. Set an iron post, 30 ins. long, 2½ ins. diam., 14 ins. in the ground and in a mound of stone, 4 ft. base to top of post, with brass cap mkd.

U. S. GOVERNMENT PRINTING OFFICE 16—85680-2

Survey, Portion of Subdivision, T. 18 S., R. 22 E.

Chains	
	T18S R22E S28 | S27 S33 | S34 1960
	Land, mountainous. Soil, sandy, rocky. Timber, dense pinon and juniper.
	N. 0° 02' W., bet. secs. 27 and 28.
	Over broken land, through dense timber.
	By triangulation, asc. about 700 ft. over steep and broken SW. slope.
33.10	Top of sandstone ledge, 60 ft. high, bears S. 10° E. and N. 10° W.; end of triangulation; asc. about 80 ft. over SW. slope.
40.00	Point for the ¼ sec. cor. of secs. 27 and 28.
	Set an iron post, 30 ins. long, 2½ ins. diam., 12 ins. in the ground and in a mound of stone, 3½ ft. base to top of post, with brass cap mkd.
	T18S R22E ¼ S28 | S27 1960
	Asc. about 200 ft. over SW. slope.
78.00	Sandstone ledge, 100 ft. high, bears E. and W.; asc. 30 ft. over S. slope. End triangulation.
80.00	Point for the cor. of secs. 21, 22, 27 and 28.
	Set an iron post, 30 ins. long, 2½ ins. diam., 16 ins. in the [illegible] and in a mound of stone, 3½ ft. base to top of post, with brass cap mkd.
	T18S R22E S21 | S22 S28 | S27 1960
	Land, mountainous, broken. Soil, shallow sand with exposed sandstone. Timber, dense pinon and juniper.
	N. 0° 02' W., bet. secs. 21 and 22.
	Over broken land, through medium timber.
	Asc. 30 ft. over SW. slope.
8.30	Ridge, bears E. and W.; desc. about 740 ft. over steep and broken N. slope.
35.00	Head of ravine, drains E.; asc. about 160 ft. over S. slope.
40.00	Point for the ¼ sec. cor. of secs. 21 and 22.
	Set an iron post, 30 ins. long, 2½ ins. diam., 12 ins. in the gr[illegible] and in a mound of stone 4 ft. base to top of post, with brass cap mkd

U. S. GOVERNMENT PRINTING OFFICE 16—28520-2

Chains	
	T18S R22E ¼ S21 | S22 1960
60.70	Spur, projects E.; thence by triangulation desc. about 950 ft. over steep N. slope covered with large boulders.
80.00	Point for the cor. of secs. 15, 16, 21 and 22.
	Set an iron post, 30 ins. long, 2½ ins. diam., 18 ins. in the ground, in a collar of stone, with brass cap mkd.
	T18S R22E S16 | S15 S21 | S22 1960
	Land, mountainous, broken. Soil, sandy, rocky. Timber, medium to scattered pinon, juniper and yellow pine.

	N. 0° 02' W., bet. secs. 15 and 16.
	Over broken land, through scattered timber.
	Desc. 80 ft. over N. slope.
3.50	Wash, 30 lks. wide, 1 ft. deep, in fork of Diamond Canyon, drains E.; thence by triangulation; asc. about 800 ft. over steep and ledgy S. slope.
35.60	End of triangulation.
40.00	Point for the ¼ sec. cor. of secs. 15 and 16, 680 ft. above canyon.
	Set an iron post, 30 ins. long, 2½ ins. diam., 10 ins. in the ground, in a mound of stone, 3½ ft. base to top, with brass cap mkd.
	T18S R22E ¼ S16 | S15 1960
58.00	Ridge, bears SE. and NW.; desc. 500 ft. over steep NE. slope.
76.00	Wash, drains SE.; asc. 200 ft. over steep S. slope.
80.00	Point for the cor. of secs. 9, 10, 15 and 16, falls on ledge sloping S. where cor. cannot be perpetuated.
	Land, mountainous, broken. Soil, sandy, rocky. Timber, dense pinon and juniper.

	N. 0° 02' W., bet. secs. 9 and 10.
	Over broken land, through dense timber.
	Asc. 260 ft. over S. slope to top of ridge.
2.60	Point selected for the witness cor. of secs. 9, 10, 15 and 16.

Survey of a Portion of the Subdivision of T. 18 S., R. 22 E.

Chains	
	Set an iron post, 30 ins. long, 2½ ins. diam., 8 ins. in the ground, in a mound of stone, 4 ft. base to top, with brass cap mkd.
	T18S R22E S 9 | S10 S16 | S15 W C 1960
10.90	Ridge, bears E. and W.; thence by triangulation, desc. about 640 ft. over steep N. slope.
33.00	Bottom of descent, bears E. and W.; thence across nearly level bott of Cottonwood Wash.
36.60	End of triangulation.
36.80	Trail road, bears N. 70° W. and S. 70° E.
40.00	Point for the ¼ sec. cor. of secs. 9 and 10.
	Set an iron post, 30 ins. long, 2½ ins. diam., 24 ins. in the ground, with brass cap mkd.
	T18S R22E ¼ S 9 | S10 1960
	Raise a mound of stone, 3½ ft. base, 2 ft. high, W. of cor.
42.00	Wash, 40 lks. wide, 5 ft. deep, in bottom of Cottonwood Wash, drains E.
46.00	Bottom of ascent, bears E. and W.; asc. 400 ft. over steep and ledgy S. slope.
59.20	Spur, projects SE. from N.; desc. 40 ft. along E. slope.
67.20	Bottom of descent; asc. 50 ft. along E. slope.
70.10	Ridge, bears N. 1° E. and S. 1° W.; desc. 80 ft. along W. slope.
80.00	Point for the cor. of secs. 3, 4, 9 and 10.
	Set an iron post, 30 ins. long, 2½ ins. diam., 8 ins. in the ground, in a mound of stone, 4 ft. base to top, with brass cap mkd.
	T18S R22E S4 | S3 S9 | S10 1960
	Land, mountainous. Soil, shallow sand and exposed sandstone. Timber, dense pinon and juniper, scatteredc spruce.

U. S. GOVERNMENT PRINTING OFFICE 16—25820-2

Survey, Portion of Subdivision, T. 18 S., R. 22 E.

Chains	
	N. 0° 12' W., bet. secs. 3 and 4.
	Over mountainous land, through dense timber.
	By triangulation; desc. about 100 ft. along W. slope.
6.00	Approximate dist. to wash, drains W.; asc. about 400 ft. over steep and broken S. slope.
40.00	Point for the ¼ sec. cor. of secs. 3 and 4.
	Set an iron post, 30 ins. long, 2½ ins. diam., 6 ins. in the ground and in a mound of stone, 3½ ft. base to top of post, with brass cap mkd.
	T18S R22E ¼ S 4 | S 3 1960
42.20	Ridge, bears NW. and SE.; end of triangulation; desc. about 500 ft. over NE. slope.
60.00	Wash, 20 lks. wide, 12 ft. deep, drains E.; asc. about 200 ft. over SE. slope.
74.00	Spur, projects E.; desc. 80 ft. over NE. slope. End triangulation.
80.64	The cor. of secs. 3, 4, 33 and 34.
	Land, mountainous. Soil, shallow sand and exposed sandstone. Timber, dense pinon and juniper, scattered spruce.
	From the cor. of secs. 1, 2, 35 and 36 on the N. bdy. of the Tp.
	S. 0° 01' E., bet. secs. 1 and 2.
	By triangulation, desc. about 620 ft. over steep and broken SW. slope.
5.00	Approximate dist. to spur, projects S. 15° W.
25.00	Approximate dist. to bottom of ravine, drains SW,; asc. about 470 ft. over steep NW. slope.
41.06	Point for the ¼ sec. cor. of secs. 1 and 2.
	Set an iron post, 30 ins. long, 2½ ins. diam., 18 ins. in the ground and in a collar of stone, with brass cap mkd.
	T18S R22E ¼ S 2 | S 1 1960
41.56	Spur, projects S. 75° W.; end of triangulation. Thence by triangulation, desc. about 500 ft. over broken SE. slope.
63.00	Approximate dist. to ravine, drains S. 50° W.; asc. about 100 ft. over NW. slope.

U. S. GOVERNMENT PRINTING OFFICE 16—88890-3

Portion of Subdi T. 18 S. 22

Chains

80.70 Spur, projects S. 80° W.

81.06 Point for the cor. of secs. 1, 2, 11 and 12.

Set an iron post, 30 ins. long, 2½ ins. diam., 18 ins. in the ground and in a mound of stone, 2 ft. base to top of post, with brass cap mkd.

T18S R22E

S 2	S 1
S11	S12

1960

Land, mountainous, broken.
Soil, shallow sand, rocky.
Timber, dense pinon and juniper, scattered spruce.

From the cor. of secs. 2, 3, 34 and 35 on the N. bdy. of the Tp.

S. 0° 02' E., bet. secs. 2 and 3.

Over broken land, through dense timber.

Asc. about 130 ft. over NW. slope.

6.00 Spur, projects S. 85° W., thence by triangulation; desc. about 1,060 ft. over abrupt and broken S. slope.

35.88 Point selected for the witness ¼ sec. cor. of secs. 2 and 3.

Set an iron post, 30 ins. long, 2½ ins. diam. on solid sandstone and in a mound of stone, 3½ ft. base to top of post, with brass cap mkd.

T18S R22E

¼

S 3	S 2

W C

1960

36.00 Cont. by triangulation; desc. about 170 ft. over precipitous and broken SE. slope.

40.85 Point for the ¼ sec. cor. of secs. 2 and 3 falls on inaccessible SE. slope.

50.80 Approximate dist. to ravine, drains SE.; asc. about 150 ft. over NW. slope.

65.80 Approximate dist. to spur, projects N. 80° E.; desc. about 200 ft. over SE. slope.

70.80 Approximate dist. to ravine, drains N. 80° E.; asc. about 270 ft. over steep and broken NW. slope.

80.85 Point for the cor. of secs. 2, 3, 10 and 11.

Set an iron post, 30 ins. long, 2½ ins. diam. on solid sandstone and in a mound of stone, 4½ ft. base to top of post, with brass cap mkd.

of T. 18 S., R. 22 E.

Chains	
	T18S R22E S 3 | S 2 S10 | S11 1960
	Land, mountainous, broken. Soil, shallow sand with sandstone outcroppings. Timber, dense pinon and juniper, scattered spruce.
	From the cor. of secs. 1, 2, 11 and 12.
	N. 89° 59' W., bet. secs. 2 and 11. Over broken land, through dense timber.
	By triangulation, desc. about 320 ft. over steep and broken NW. slope.
10.00	Approximate dist. to ravine, drains S. 50° W.; asc. about 370 ft. over SE. slope.
24.12	Spur, projects S. 20° W.; end of triangulation; desc. 140 ft. over NW. slope.
31.70	Point selected for the witness ¼ sec. cor. of secs. 2 and 11.
	Set an iron post, 30 ins. long, 2½ ins. diam., 24 ins. in the ground, with brass cap mkd, T18S R22E ¼ W S 2 C S11 1960
	Thence by triangulation, desc. about 400 ft. over rough, broken NW. slope.
40.14	Point for the ¼ sec. cor. of secs. 2 and 11 falls on precipitous NW. slope and is not monumented.
50.00	Approximate dist. to ravine, drains S. 40° W.; asc. about 600 ft. over broken SE. slope.
78.00	Approximate dist. to spur, projects SW.
80.28	The cor. of secs. 2, 3, 10 and 11. Land, mountainous, broken. Soil, sandy, rocky. Timber, dense pinon and juniper, scattered spruce.
	From the cor. of secs. 15, 16, 21 and 22.
	N. 89° 52' W., bet. secs. 16 and 21. Over broken land, through dense timber.
	By triangulation, desc. about 60 ft. along N. slope.
8.00	Approximate dist. to ravine, drains NE.; asc. about 500 ft. over NE. slope.

Portion of Subdivis T. 18 S. R. 22

Chains	
24.40	Top of ascent; end of triangulation; desc. 10 ft. over NW. slope.
34.00	Begin ascent of NE. slope; asc. about 130 ft.
40.00	Point for the ¼ sec. cor. of secs. 16 and 21.
	Set an iron post, 30 ins. long, 2½ ins. diam., 12 ins. in the ground and in a mound of stone, 3 ft. base to top of post, with brass cap mkd.
	T18S R22E ¼ S16 S21 1960
41.10	Spur, projects NE., thence by triangulation; desc. about 340 ft. NW. slope.
50.00	Approximate dist. to bottom of ravine, drains N. 30° E.; asc. about 370 ft. over NE. slope.
67.20	Top of ascent, bears N. 30° E. and S. 30° W.; desc. about 210 ft. over NW. slope.
75.00	Approximate dist. to ravine, drains N. 30° E.; asc. about 210 ft. over NE. slope.
80.00	Point for the cor. of secs. 16, 17, 20 and 21.
	Set an iron post, 30 ins. long, 2½ ins. diam., 6 ins. in the ground and in a mound of stone, 3 ft. base to top of post, with brass cap mkd.
	T18S R22E S17 | S16 S20 | S21 1960
	Land, mountainous, broken. Soil, sandy loam, rocky. Timber, dense pinon and juniper, scattered pine.
	N. 0° 03' W., bet. secs. 16 and 17.
	Over broken land, through dense timber.
	By triangulation, desc. about 330 ft. along E. slope.
15.00	Approximate dist. to bottom of canyon, drains N. 80° E.; asc. about 780 ft. over steep S. slope.
38.60	Spur, projects E., thence across top; end of triangulation.
40.00	Point for the ¼ sec. cor. of secs. 16 and 17.
	Set an iron post, 30 ins. long, 2½ ins. diam., 4 ins. in the ground and in a mound of stone, 3 ft. base to top of post, with brass cap mkd.
	T18S R22E ¼ S17 | S16 1960
47.50	By triangulation, desc. about 620 ft. over steep and broken N. slope.

U.S. GOVERNMENT PRINTING OFFICE 16—80480-2

Chains	
65.00	Approximate dist. to bottom of fork of Diamond Canyon, drains S. 75° E.; asc. about 150 ft. over sandstone ledges and outcroppings on SW. slope.
80.00	Point for the cor. of secs. 8, 9, 16 and 17.
	Set an iron post, 30 ins. long, 2½ ins. diam., 4 ins. in the ground and in a mound of stone, 3½ ft. base to top of post, with brass cap mkd.
	T18S R22E S 8 | S 9 S17 | S16 1960
	Land, mountainous, broken and rough. Soil, sandy loam, rocky. Timber, dense pinon and juniper, scattered pine.
	East, bet. secs. 9 and 16.
	Over mountainous land, through dense timber.
	By triangulation, asc. about 500 ft. along broken S. slope.
20.00	Approximate dist. to spur, projects S.; desc. about 600 ft. over SE. slope.
35.00	Approximate dist. to ravine, drains S.; asc. about 750 ft. over broken, ledgy SW. slope.
40.08	Point for the ¼ sec. cor. of secs. 9 and 16 falls on inaccessible ledges and is not monumented.
50.00	Point selected for the witness ¼ sec. cor. of secs. 9 and 16.
	Set an iron post, 30 ins. long, 2½ ins. diam., 8 ins. in the ground and in a mound of stone, 3 ft. base to top of post, with brass cap mkd.
	T18S R22E ¼ W S 9 C S16 1960
54.23	End of triangulation.
54.50	Spur, projects S. about 8.00 chs.; desc. 520 ft. over steep and broken E. slope.
75.10	Top of ledge, 80 ft. high, bears irregularly N. and S.
76.50	Ravine, drains S.; asc. 40 ft. over W. slope.
80.16	True point for the cor. of secs. 9, 10, 15 and 16, from which the witness cor. of secs. 9, 10, 15 and 16 bears N. 0° 02' W., 2.60 chs. dist.
	Land, mountainous, broken. Soil, shallow sand with exposed sandstone outcroppings. Timber, dense pinon and juniper, scattered pine.

Su. Portion of Subdivision T. 18 S. R. 22 E.

Chains	
	From the cor. of secs. 32 and 33 on the S. bdy. of the Tp. with a 2½ in. iron post, previously described.
	N. 0° 03' W., bet. secs. 32 and 33.
	Over broken land, through medium timber.
	By triangulation; desc. about 200 ft. over steep N. slope.
15.00	Approximate dist. to Cottonwood Creek, with stream of clear water, 10 lks. wide, 1 ft. deep, course E.; asc. about 400 ft. over broken slope.
21.60	End of triangulation, slope changes to E. slope; asc. 60 ft.
33.80	Top of ascent, bears S. from N. 15° W.; desc. 120 ft. over NE. slope.
40.00	Point for the ¼ sec. cor. of secs. 32 and 33.
	Set an iron post, 30 ins. long, 2½ ins. diam., on solid sandstone and in a mound of stone, 4 ft. base to top of post, with brass cap mkd.
	T18S R22E ¼ S32 | S33 1960
	Desc. about 200 ft. over NE. slope, by triangulation.
55.00	Approximate dist. to canyon, drains S. 15° E.; asc. about 300 ft. over SW. slope.
80.00	Point for the cor. of secs. 28, 29, 32 and 33.
	Set an iron post, 30 ins. long, 2½ ins. diam., 20 ins. in the ground and in a collar of stone, brass cap mkd.
	T18S R22E S29 | S28 S32 | S33 1960
	Land, mountainous. Soil, sandy, rocky. Timber, medium dense pinon and juniper.
	From the cor. of secs. 31 and 32 on the S. bdy. of the Tp. with a 2½ in. iron post, previously described.
	N. 0° 03' W., bet. secs. 31 and 32.
	Over mountainous land, through dense timber.
	Desc. 150 ft. over NW. slope.
7.50	Cottonwood Creek, 2.00 chs. wide, 20 ft. deep, with a stream of clear water, 5 lks. wide, 1 ft. deep, course E.; asc. about 800 ft. over S. slope.
9.20	Trail road, bears E. and W.
40.00	Point for the ¼ sec. cor. of secs. 31 and 32.

U. S. GOVERNMENT PRINTING OFFICE 16—25880-2

Chains	
	Set an iron post, 30 ins. long, 2½ ins. diam., 4 ins. in the ground and in a mound of stone, 4½ ft. base to top of post, with brass cap mkd. T18S R22E ¼ S31 | S32 1960
42.30	Top of ledge, 60 ft. high, bears E. and W.
50.40	Spur, projects S. 80° W. from N. 15° E.; thence along W. slope.
68.60	Slope changes to NW.; desc. 60 ft.
80.00	Point for the cor. of secs. 29, 30, 31 and 32.
	Set an iron post, 30 ins. long, 2½ ins. diam., 12 ins. in the ground and in a mound of stone, 2 ft. base to top of post, with brass cap mkd. T18S R22E S30 | S29 S31 | S32 1960
	Raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.
	Land, mountainous, broken. Soil, sandy, rocky. Timber, dense pinon and juniper, scattered pine.
	From the cor. of secs. 28, 29, 32 and 33.
	N. 89° 54' W., bet. secs. 29 and 32.
	Over broken land, through dense timber.
	Desc. about 250 ft. over W. slope, by triangulation.
15.40	Approximate dist. to ravine, drains S.; asc. about 400 ft. over steep E. slope.
26.00	Spur, projects S. about 15.00 chs.; desc. about 800 ft. over steep and broken W. slope.
38.08	Point selected for the witness ¼ sec. cor. of secs. 29 and 32.
	Set an iron post, 30 ins. long, 2½ ins. diam., 4 ins. in the ground and in a mound of stone, 3½ ft. base to top of post, with brass cap mkd. T18S R22E ¼ W S29 C S32 1960
40.19	True point for the ¼ sec. cor. falls in inaccessible position on broken W. slope.
45.40	Approximate dist. to ravine, drains S.; asc. about 940 ft. over steep and broken E. slope.

Portion of T. 18 S., R. 22 E.

Chains	
73.80	Top of ascent, bears N. and S.; end of triangulation; desc. 110 ft. over light colored sandstone outcroppings of W. slope.
80.38	The cor. of secs. 29, 30, 31 and 32.

Land, mountainous, broken.
Soil, shallow sand, with sandstone outcroppings.
Timber, dense pinon and juniper.

General Description

T. 18 S., R. 22 E. is mountainous, broken land varying in elevation from 6,000 feet to 8,000 feet above sea level. The area is drained in a southeasterly direction by Diamond Canyon and Cottonwood Creek. The only water is a stream of clear water about 10 links wide and foot deep in Cottonwood Creek.

There is a trail road in the bottom of Cottonwood Creek.

Timber in the area consists of dense pinon and juniper, with scattered spruce and pine, and scrub oak in the north portion. So is shallow sand with exposed sandstone outcroppings.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FIELD ASSISTANTS

NAMES	CAPACITY
Eldon W. Sibley	Notekeeper
Glen B. Hatch	Notekeeper
Wallace R. Ott	Principal Assistant, Transitman
Parley Pratt	Chainman
Gordon R. Shurtz	Flagman
Robert [illegible] Fisher	Cornerman

CERTIFICATE OF CADASTRAL SURVEYOR

I, George D. Voorhees, HEREBY CERTIFY upon honor that, in pursuance of special instructions bearing date of the 15th day of September, 19 58. I have ~~surveyed~~ supervised the dependent resurvey of the north boundary of T. 19 S., R. 22 E., and the survey of the east and north boundaries and a portion of the subdivision of T. 18 S., R. 22 E.

of the Salt Lake Meridian, in the State of Utah, which are represented in the foregoing field notes as having been executed ~~by me~~ under my supervision; and that said 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.

Salt Lake City, Utah
(Date)

George D. Voorhees
(Cadastral Surveyor)
George D. Voorhees

May 15, 1961
(Date)

(Cadastral Surveyor)

CERTIFICATE OF APPROVAL

BUREAU OF LAND MANAGEMENT,

Washington, D. C., JUL 19 1962, 19___

The foregoing field notes of the ~~survey of~~ dependent resurvey of the north boundary of T. 19 S., R. 22 E., and the survey of the east and north boundaries and a portion of the subdivision of T. 18 S., R. 22 E., Salt Lake Meridian, Utah

executed by Elden W. Sibley and Glen B. Hatch, Surveying Technicians, under the supervision of George D. Voorhees, Cadastral Surveyor (Chief of Party having been critically examined and found correct, are hereby approved.

E. O. Remington
~~(Cadastral Engineering Staff Officer)~~
Chief, Division of Engineering

CERTIFICATE OF TRANSCRIPT

transcript ot the field notes of the in

, is a true copy of the original field notes.

GPO 882650

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

ORIGINAL

FIELD NOTES

OF THE

DEPENDENT RESURVEY OF THE NORTH BOUNDARY

OF

TOWNSHIP 19 SOUTH, RANGE 23 EAST

AND A

SURVEY OF THE NORTH BOUNDARY AND

A PORTION OF THE SUBDIVISIONAL LINES

OF

TOWNSHIP 18 SOUTH, RANGE 23 EAST

Of the Salt Lake *Meridian,*

the State of Utah

EXECUTED BY

George D. Voorhees, Cadastral Surveyor (Chief of Party)

Eldon W. Sibley, Cadastral Surveyor

Glen B. Hatch, Cadastral Surveyor

nder special instructions dated September 15, *19*58, *which provided*

r the surveys included under Group No. 402, *approved* September 30, 1958

d assignment instructions dated April 14, *19*60

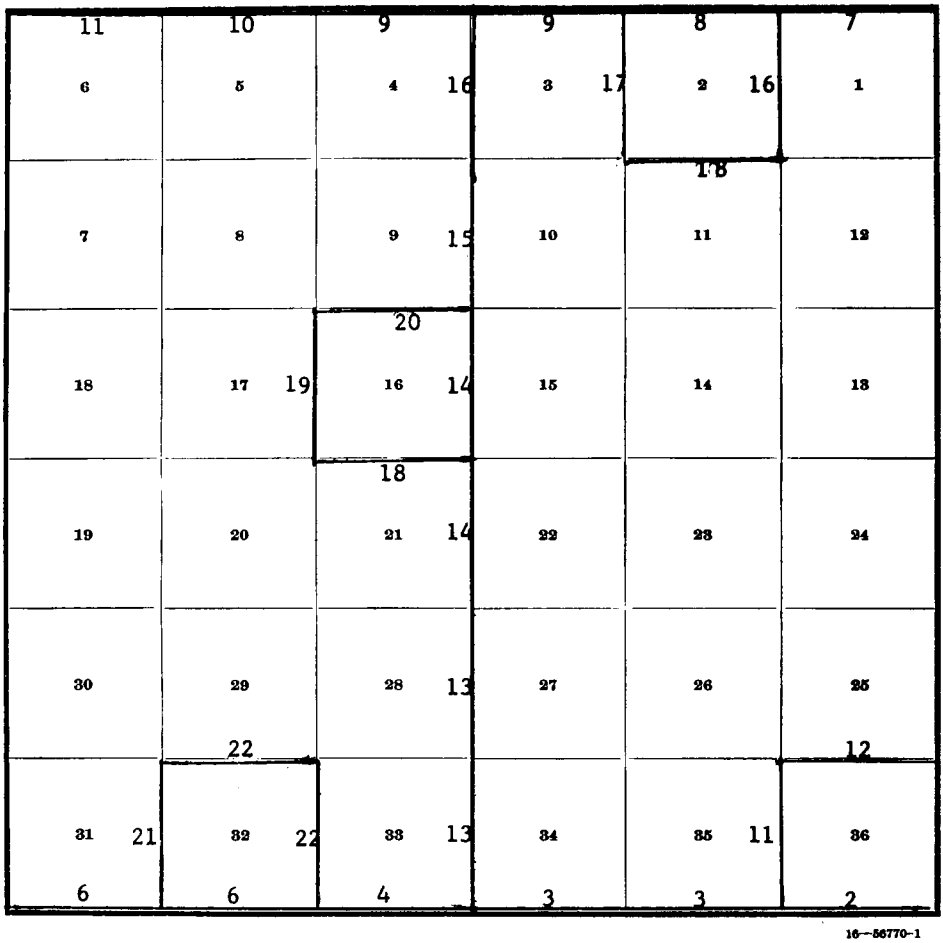
Survey commenced May 13, *19*60

Survey completed July 22, *19*60

U. S. GOVERNMENT PRINTING OFFICE 16—66770-1

INDEX DIAGRAM

Township 18 South, *Range* 23 East



16—86770-1

_____ Eldon W. Sibley

_____ Glen B. Hatch

Chains

The south boundary was originally surveyed by H. D. Heist and W. A Stumm in 1909. The east boundary was surveyed by J. C. Clark in 1924. The north and west boundaries were surveyed concurrently under this same group and are recorded in the field notes of T. 17 S., R. 23 E. and T. 18 S., R. 22 E., respectively.

The following field notes are those of the survey of the north boundary and a portion of the subdivisional lines of T. 18 S., R. 23 E., and the dependent resurvey of the north boundary of T. 19 S., R. 23 E., deemed sufficient in extent to facilitate development of the natural resources and mark the boundaries of those sections normally considered state school sections.

The survey was executed with three W. & L. E. Gurley solar transits Nos. 491037, 580158 and 541330, constructed in accordance with the standard instrumental specifications of the Bureau of Land Management. The instrument was in good condition prior to the beginning of the survey and was maintained in proper adjustment throughout the progress of this survey.

Corners on east-west lines were set on the true latitudinal curve. Lines connecting previously established corners were run by random and true method, but for simplification of the record the random lines are omitted from the field notes. In accordance with the intent of the special instructions, all subdivisional corners established are calculated to be at the position they would occupy if the entire township were subdivided.

Measurements herein contained were made with a narrow steel tape, 8 chains in length, graduated every link for the first 100 links and thereafter at intervals of 10 links. The tape was tested by comparison with a one chain standard steel tape and found to be correct. Measurements were made on the slope with the vertical angle of each interval ascertained by a clinometer in good adjustment; horizontal equivalents alone are entered in the field notes. All lines of this survey were run by direct method where the lines were accessible; lines inaccessible were run by traverse or triangulation methods. The details of such traverses or triangulations have been thoroughly checked and verified and in order to simplify the record the diagrams and reductions are omitted from these field notes.

The direction of the lines of this survey were determined by reference to true meridians established on line by hour angle observations on Polaris or altitude observations on the sun. The lines were carried forward by sustained angulation being supplemented by other numerous altitude observations on the sun taken throughout the progress of the survey.

The geographic position for the southeast corner of the township is at latitude 39° 11' 21.5" N. and longitude 109° 18' 45.0" W., as adjusted from traverses to U.S.C. & G.S. triangulation stations within the area.

The magnetic declination was read at a number of stations throughout the township and the average of these readings was found to be 15° 30' East.

Dependent Resurvey of the North Boundary of T. 19 S., R. 23 E., and Establishment Thereon of Corners Pertaining to T. 18 S., R. 23 E. at Regular Intervals of 40.00 Chains West from the Corner of Tps. 18 and 19 S., R. 23 E.

Reestablishment of the survey executed by H. D. Heist and W. A. Stumm in 1909.

U. S. GOVERNMENT PRINTING OFFICE 16—28620-2

Dependent Resurvey of the North Boundary of T. 19 S., R. 23 E.

Chains	
	From the cor. of Tps. 18 and 19 S., R. 23 E., an iron post, 3 ins. diam., set, mkd. and witnessed as described in the official record.
	N. 87° 40' W., along the N. bdy. of sec. 1.
	Over broken land; by triangulation, desc. about 300 ft. over NW. slope.
9.00	Wash, 30 lks. wide, 3 ft. deep, drains NE.; asc. about 350 ft. over E. slope.
20.30	End of triangulation on spur sloping N. 30° E.; desc. 200 ft. over NW. slope.
32.60	Wash, 30 lks. wide, 3 ft. deep, drains N.; asc. 60 ft. over E. slope.
40.03	Point for the ¼ sec. cor. of sec. 36, T. 18 S., R. 23 E.
	Set an iron post, 30 ins. long, 2½ ins. diam., 12 ins. in the ground, in a mound of stone, 4 ft. base to top, with brass cap mkd.
	T18S R23E ¼ S36 T19S 1960
40.25	Point for the original ¼ sec. cor. of secs. 1 and 36, at proporti dist.; there is no remaining evidence of the original cor. This poi now functions as the ¼ sec. cor. of sec. 1 only.
	Set an iron post, 30 ins. long, 2½ ins. diam., 14 ins. in the ground, in a mound of stone, 3½ ft. base to top, with brass cap mkd.
	T18S R23E ¼ S1 T19S 1960
	Asc. 340 ft. over E. slope.
80.06	Point for the cor. of secs. 35 and 36, T. 18 S., R. 23 E.
	Set an iron post, 30 ins. long, 2½ ins. diam., 18 ins. in the ground, in a mound of stone, 3 ft. base to top, with brass cap mkd.
	T18S R23E S35 | S36 T19S 1960
80.50	The original cor. of secs. 1, 2, 35 and 36, an iron post, 3 ins. set, mkd. and witnessed as described in the official record.
	I now remark the brass cap to read as follows:
	T18S R23E S2 | S1 T19S 1909 1960
	Land, mountainous. Soil, shallow sand and exposed sandstone. Timber, scattered scrub juniper and pinon.

U. S. GOVERNMENT PRINTING OFFICE 16—38520-2

Dependent Resurvey of the North Boundary of T. 19 S., R. 23 E.

Chains	
	N. 89° 43' W., along the N. bdy. of sec. 2.
	Over broken land, through scattered timber; asc. 120 ft. over E. slope.
8.30	Ridge, bears N. and S.; desc. 180 ft. over W. slope.
18.40	Wash, 30 lks. wide, 3 ft. deep, drains S.; asc. 150 ft. along S. slope.
36.90	Ridge, bears NW. and SE.; desc. 90 ft. over SW. slope.
39.56	Point for the ¼ sec. cor. of sec. 35, T. 18 S., R. 23 E.
	Set an iron post, 30 ins. long, 2½ ins. diam., 14 ins. in the ground, in a mound of stone, 3½ ft. base to top, with brass cap mkd.
	T18S R23E ¼ S35 T19S 1960
40.03	Point for the original ¼ sec. cor. of secs. 2 and 35, at proportionate dist.; there is no remaining evidence of the original cor. This point now functions as the ¼ sec. cor. of sec. 2 only.
	Set an iron post, 30 ins. long, 2½ ins. diam., 8 ins. in the ground, in a mound of stone, 3½ ft. base to top, with brass cap mkd.
	T18S R23E ¼ S2 T19S 1960
	Desc. 470 ft. over SW. slope.
66.70	Wash, 20 lks. wide, 3 ft. deep, drains S.; asc. 230 ft. over E. slope.
79.56	Point for the cor. of secs. 34 and 35, T. 18 S., R. 23 E.
	Set an iron post, 30 ins. long, 2½ ins. diam., 12 ins. in the ground, in a mound of stone, 3½ ft. base to top, with brass cap mkd.
	T18S R23E S34 | S35 T19S 1960
80.06	The original cor. of secs. 2, 3, 34 and 35, an iron post, 3 ins. diam., set, mkd. and witnessed as described in the official record.
	I now remark the brass cap to read as follows:
	T18S R23E S3 | S2 T19S 1909 1960
	Land, mountainous. Soil, shallow sand and sandstone. Timber, scattered scrub juniper and pinion.

S. 89° 54' W., along the N. bdy. of sec. 3.

Over broken land; asc. 10 ft. over E. slope.

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Dependent Resurvey of the North Boundary of T. 19 S., R. 23 E.

Chains

2.10 Spur, slopes SW., by triangulation, desc. about 300 ft. over W. slope

18.00 Wash, 30 lks. wide, 3 ft. deep, drains SE.; asc. about 350 ft. over E. slope.

28.60 End of triangulation; asc. 180 ft. over E. slope.

39.50 Point for the ¼ sec. cor. of sec. 34, T. 18 S., R. 23 E.

Set an iron post, 30 ins. long, 2½ ins. diam., 10 ins. in the ground, in a mound of stone, 4 ft. base to top, with brass cap mkd.

T18S R23E
¼ S34
T19S
1960

Asc. E. slope.

40.11 Point for the original ¼ sec. cor. of secs. 3 and 34, at propor[illegible] dist.; there is no remaining evidence of the original cor. This point now functions as the ¼ sec. cor. of sec. 3 only.

Set an iron post, 30 ins. long, 2½ ins. diam., 8 ins. in the ground, in a mound of stone, 3½ ft. base to top, with brass cap mkd.

T18S R23E
¼ S3
T19S
1960

Asc. 370 ft. over NE. slope.

61.50 Ridge, bears N. and S.; desc. 150 ft. over W. slope.

79.50 Point for the cor. of secs. 33 and 34, T. 18 S., R. 23 E.

Set an iron post, 30 ins. long, 2½ ins. diam., 8 ins. in the ground, in a mound of stone, 4 ft. base to top, with brass cap mkd.

T18S R23E
S33 | S34
T19S
1960

80.22 The original cor. of secs. 3, 4, 33 and 34, an iron post, 3 ins. [illegible] set, mkd. and witnessed as described in the official record.

I now remark the brass cap to read as follows:

T18S R23E
S4 | S3
T19S
1909
1960

Land, mountainous.
Soil, shallow sand and exposed sandstone.
Timber, medium dense juniper and pinion.

West, along the N. bdy. of sec. 4.

Over broken land, through medium dense timber; by triangulation, desc. 200 ft. over W. slope.

[illegible] wide 2 ft. dee[illegible] drains S.; asc. about 250 ft. over

Dependent Resurvey of the North Boundary of T. 19 S., R. 23 E.

Chains	
16.00	Spur, slopes S.; desc. about 250 ft. over W. slope.
28.00	Wash, 30 lks. wide, 3 ft. deep, drains S.; asc. about 300 ft. over E. slope.
39.28	Point for the ¼ sec. cor. of sec. 33, T. 18 S., R. 23 E.
	Set an iron post, 30 ins. long, 2½ ins. diam., 12 ins. in the ground, in a mound of stone, 4 ft. base to top, with brass cap mkd.
	T18S R23E ¼ S33 T19S 1960
40.16	The original ¼ sec. cor. of secs. 4 and 33, a sandstone, 6x8x10 ins., plainly mkd. and firmly set. This point now functions as the ¼ sec. cor. of sec. 4 only.
	At the cor. point
	Set an iron post, 30 ins. long, 2½ ins. diam., 8 ins. in the ground, in a mound of stone, 4 ft. base to top, with brass cap mkd.
	T18S R23E ¼ S4 T19S 1960
	Deposit the original cornerstone alongside the iron post.
	N. 89° 02' W., along the N. bdy. of sec. 4, beginning new measurement.
	By triangulation; desc. about 800 ft. over W. slope.
28.06	Wash, 30 lks. wide, 3 ft. deep, drains S.; asc. about 600 ft. over E. slope.
39.12	Point for the cor. of secs. 32 and 33, T. 18 S., R. 23 E.
	Set an iron post, 30 ins. long, 2½ ins. diam., 16 ins. in the ground, in a mound of stone, 3½ ft. base to top, with brass cap mkd.
	T18S R23E S32 | S33 T19S 1960
	Asc. 60 ft. over E. slope.
40.02	The original cor. of secs. 4, 5, 32 and 33, an iron post, 3 ins. diam., set, mkd. and witnessed as described in the official record.
	I now remark the brass cap to read as follows:
	T18S R23E S5 | S4 T19S 1909 1960
	Land, mountainous. Soil, shallow sand and exposed sandstone. Timber, medium dense, scrub juniper and pinion.

Dependent Resurvey of the North Boundary of T. 19 S., R. 23 E.

Chains	
	N. 89° 37' W., along the N. bdy. of sec. 5.
	Over broken land, through medium dense timber; asc. 30 ft. over E. slope.
1.20	Spur, slopes S.; by triangulation, desc. about 450 ft. over W. slope
15.00	Wash, 30 lks. wide, 3 ft. deep, drains S. 20° E.; asc. about 500 ft. over E. slope.
38.30	End of triangulation on small spur, slopes N.; desc. 10 ft. over NW. slope.
39.10	Point for the ¼ sec. cor. of sec. 32, T. 18 S., R. 23 E.'
	Set an iron post, 30 ins. long, 2½ ins. diam., 16 ins. in the ground, in a mound of stone, 4 ft. base to top, with brass cap mkd.
	T18S R23E ¼ S32 T19S 1960
	Desc. 20 ft. over NW. slope.
40.41	Point for the original ¼ sec. cor. of secs. 5 and 32, at proporti dist.; there is no remaining evidence of the original cor. This now functions as the ¼ sec. cor. of sec. 5 only.
	Set an iron post, 30 ins. long, 2½ ins. diam., 12 ins. in the ground in a mound of stone, 3½ ft. base to top, with brass cap mkd.
	T18S R23E ¼ S5 T19S 1960
	Desc. 50 ft. over NW. slope.
42.50	Small wash, drains N.; by triangulation; asc. about 400 ft. over E. slope.
79.10	Point for the cor. of secs. 31 and 32, T. 18 S., R. 23 E.
	Set an iron post, 30 ins. long, 2½ ins. diam., 3 ins. in the ground, in a mound of stone, 4 ft. base to top, with brass cap mkd.
	T18S R23E S31 | S32 T19S 1960
	Asc. 50 ft. over E. slope.
80.82	The original cor. of secs. 5, 6, 31 and 32, an iron post, 3 ins. set, mkd. and witnessed as described in the official record.
	I now remark the brass cap to read as follows:
	T18S R23E S6 | S5 T19S 1909 1960
	Land, broken. Soil, shallowsand and exposed sandstone. Timber, medium dense scrub juniper and pinion.

U.S. GOVERNMENT PRINTING OFFICE 16—35500-2

Dependent Resurvey of the North Boundary of T. 19 S., R. 23 E.

Chains	
	S. 89° 55' W., along the N. bdy. of sec. 6.
	Over broken land, through scattered timber; asc. 20 ft. over E. slope.
1.20	Ridge, bears N. and S.; desc. W. slope.
5.10	Top of sandstone ledge, 150 ft. high, bears N. and S.; by triangulation, desc. about 1,000 ft. over steep W. slope.
38.28	Point for the ¼ sec. cor. of sec. 31, T. 18 S., R. 23 E.
	Set an iron post, 30 ins. long, 2½ ins. diam., 16 ins. in the ground, in a mound of stone, 4 ft. base to top, with brass cap mkd. T18S R23E ¼ S31 T19S 1960
	Desc. 30 ft. over W. slope.
39.70	Wash, 30 lks. wide, 3 ft. deep, drains S.
40.00	Point for the original ¼ sec. cor. of secs. 6 and 31, at proportionate dist.; there is no remaining evidence of the original cor. This point now functions as the ¼ sec. cor. of sec. 6 only.
	Set an iron post, 30 ins. long, 2½ ins. diam., 14 ins. in the ground, in a mound of stone, 4 ft. base to top, with brass cap mkd. T18S R23E ¼ S6 T19S 1960
	By triangulation, asc. about 800 ft. over steep and broken E. slope.
78.00	Ridge, bears N. 10° E. and S. 10° W.; desc. about 30 ft. over W. slope.
78.65	The cor. of Tps. 18 and 19 S., Rs. 22 and 23 E., monumented by an iron post, 3 ins. diam., set, mkd. and witnessed as described in the official record.
	Land, broken. Soil, shallow sand and exposed sandstone. Timber, scattered scrub juniper and pinon.
	North Boundary of T. 18 S., R. 23 E.
	Beginning at the cor. of Tps. 17 and 18 S., Rs. 23 and 24 E., monumented with a 3 ins. iron post, set, mkd. and witnessed as described in the official record.
	S. 89° 58' W., bet. secs. 1 and 36.
	Over mountainous land, through dense timber.
	By triangulation; desc. about 260 ft. over W. slope.
7.00	Approx. dist. to bottom of ravine, drains N. 30° W.; asc. about 600 ft. over E. slope.
36.32	End of triangulation.
39.00	Ridge, bears N. and S.; desc. 150 ft. over gentle W. slope.

U. S. GOVERNMENT PRINTING OFFICE 16—28420-2

North Bounda of T. 18 S., R. 23 E.

Chains	
40.00	Point for the ¼ sec. cor. of secs. 1 and 36.
	Set an iron post, 30 ins. long, 2½ ins. diam., on solid sandstone, in a mound of stone, 4 ft. base to top, with brass cap mkd. T17S R23E ¼ S36 S 1 T18S 1960
75.70	Canyon, drains SW.; asc. 40 ft. over E. slope.
80.00	Point for the cor. of secs. 1, 2, 35 and 36.
	Set an iron post, 30 ins. long, 2½ ins. diam., 3 ins. in the ground, in a mound of stone, 4 ft. base to top, with brass cap mkd. T17S R23E S35 | S36 S2 | S1 T18S 1960
	Land, mountainous. Soil, sandy, with exposed sandstone. Timber, dense pinion and juniper.
	S. 89° 58' W., bet. secs. 2 and 35.
	Over mountainous land, through dense timber.
	By triangulation; desc. about 140 ft. over W. slope.
17.00	Approx. dist. to bottom of canyon, drains NW.; asc. about 100 ft. over E. slope.
40.00	Point for the ¼ sec. cor. of secs. 2 and 35.
	Set an iron post, 30 ins. long, 2½ ins. diam., 6 ins. in the ground, in a mound of stone, 3 ft. base to top, with brass cap mkd. T17S R23E ¼ S35 S 2 T18S 1960
	Cont. to asc. over E. slope.
56.60	End of triangulation on spur, projects S.; desc. 30 ft. over W. slope.
65.00	Leave dense timber, enter sagebrush flat, bears N. and S.
80.00	Point for the cor. of secs. 2, 3, 34 and 35.
	Set an iron post, 30 ins. long, 2½ ins. diam., 24 ins. in the ground with brass cap mkd. T17S R23E S34 | S35 S3 | S2 T18S 1960
	No other accessories available.

U.S. GOVERNMENT PRINTING OFFICE 16—88280-2

North Boundary of T. 18 S., R. 23 E.

Chains	
	Land, mountainous. Soil, sandy loam. Timber, dense pinion and juniper E. 65 chs.
	S. 89° 58' W., bet. secs. 3 and 34.
	Over mountainous land, through medium timber, by triangulation.
	Asc. about 180 ft. over E. slope.
32.00	Slope changes to NE.
40.00	Point for the ¼ sec. cor. of secs. 3 and 34.
	Set an iron post, 30 ins. long, 2½ ins. diam., 18 ins. in the ground, in a collar of stone with brass cap mkd. T17S R23E ¼ S34 S 3 T18S 1960
	Cont. by triangulation.
42.80	Spur, projects N.; desc. about 200 ft. over NW. slope by triangulation.
75.00	Approx. dist. to ravine, drains N.; asc. about 110 ft. over steep E. slope.
80.00	Point for the cor. of secs. 3, 4, 33 and 34.
	Set an iron post, 30 ins. long, 2½ ins. diam., 14 ins. in the ground, in a collar of stone, with brass cap mkd. T17S R23E S33 | S34 S4 | S3 T18S 1960
	Land, mountainous. Soil, sandy, rocky. Timber, medium pinion and juniper.
	S. 89° 58' W., bet. secs. 4 and 33.
	Over mountainous land, through medium timber, by triangulation.
	Asc. about 210 ft. over E. slope.
6.20	Spur, projects NE.; cont. by triangulation; desc. about 400 ft. over steep NW. slope.
25.00	Approx. dist. to bottom of canyon, drains NE.; asc. about 900 ft. over sandstone ledges on NE. slope.
40.00	Point for the ¼ sec. cor. of secs. 4 and 33 falls on ledges where cor. cannot be perpetuated.
51.30	Spur, projects SW.; point selected for the witness ¼ sec. cor. of secs. 4 and 33.

U. S. GOVERNMENT PRINTING OFFICE

North Boundary of T. 18 S., R. 23 E.

Chains	
	Set an iron post, 30 ins. long, 2½ ins. diam., over a cross (X) cut on solid sandstone and in a mound of stone, 4 ft. base to top, with brass cap mkd. T17S R23E ¼ S33 W S 4 C T18S 1960
	Desc. about 250 ft. over NW. slope.
80.00	Point for the cor. of secs. 4, 5, 32 and 33. Set an iron post, 30 ins. long, 2½ ins. diam., 14 ins. in the ground, in a collar of stone with brass cap mkd. T17S R23E S32 | S33 S5 | S4 T18S 1960
	Land, mountainous. Soil, sandy, exposed sandstone. Timber, medium dense pinion and juniper.
	S. 89° 58' W., bet. secs. 5 and 32.
	Over broken land, through medium timber.
	By triangulation; asc. about 540 ft. over NE. slope.
40.00	Point for the ¼ sec. cor. of secs. 5 and 32, 160 ft. below ridge. Set an iron post, 30 ins. long, 2½ ins. diam., 12 ins. in the ground, in a mound of stone, 3½ ft. base to top, with brass cap mkd. T17S R23E ¼ S32 S 5 T18S 1960
45.70	End of triangulation; asc. 160 ft. over NE. slope.
47.20	Top of asc., bears N. and S.; desc. 600 ft. over W. slope.
72.20	Wash, 80 lks. wide, 20 ft. deep, drains SW.
75.60	Draw, drains S.; asc. about 120 ft. over E. slope.
80.00	Point for the cor. of secs. 5, 6, 31 and 32. Set an iron post, 30 ins. long, 2½ ins. diam., 8 ins. in the ground, in a mound of stone, 4 ft. base to top, with brass cap mkd. T17S R23E S31 | S32 S6 | S5 T18S 1960
	Land, mountainous. Soil, sandy and rocky. Timber, medium dense pinion and juniper.

U. S. GOVERNMENT PRINTING OFFICE 16—35230-2

North Boundary of T. 18 S., R. 23 E.

Chains	
	S. 89° 58' W., bet. secs. 6 and 31.
	Over mountainous land, through medium timber.
	By triangulation; asc. about 150 ft. over E. slope.
8.20	Approx. dist. to ridge, bears NE. and SW.; desc. about 400 ft. over W. slope.
23.20	Approx. dist. to bottom of descent; asc. about 400 ft. over E. slope.
36.70	Top of ascent, bears N. and S.; desc. about 400 ft. over W. slope.
37.40	Point selected for the witness ¼ sec. cor. of secs. 6 and 31.
	Set an iron post, 30 ins. long, 2½ ins. diam., 4 ins. in the ground, in a mound of stone, 4 ft. base to top, with brass cap mkd.
	T17S R23E ¼ W S31 C S 6 T18S 1960
40.00	Cont. by triangulation; true point for the ¼ sec. cor. of secs. 6 and 31 falls on inaccessible W. slope.
62.00	Approx. dist. to wash, 20 lks. wide, 3 ft. deep, drains NW.; asc. about 200 ft. over E. slope.
70.80	End of triangulation.
70.90	Spur, projects S.; desc. 140 ft. over NW. slope.
80.52	The cor. of Tps. 17 and 18 S., Rs. 22 and 23 E., monumented with a 2½ ins. iron post, set, mkd. and witnessed as described in the 1960 field notes of the E. bdy. of T. 18 S., Rs. 22 E.
	Land, mountainous. Soil, sandy and rocky. Timber, medium dense pinion and juniper.

Subdivision of T. 18 S., R. 23 E.

	From the cor. of secs. 35 and 36, on the S. bdy. of the Tp., monumented with an iron post, 2½ ins. diam., previously described.
	N. 0° 01' W., bet. secs. 35 and 36.
	Over broken land, through scattered timber.
	Asc. 30 ft. over SE. slope.
3.60	Spur, projects SE.; desc. 190 ft. over NE. slope.
9.20	Wash, 10 lks. wide, 1 ft. deep, drains S. 60° E.; asc. 100 ft. over S. slope.
18.60	Spur, projects E.; desc. 240 ft. over N. slope.
28.90	Wash, 10 lks. wide, 2 ft. deep, drains E.; asc. 90 ft. over S. slope.
33.30	Spur, projects E. about 8.00 chs.; desc. 90 ft. over N. slope.
36.50	Wash, 20 lks. wide, 2 ft. deep, drains S. 70° E.; asc. 90 ft. over S. slope.

Subdivisions of T. 18 S., R. 23 E.

Chains	
36.73	Point for the ¼ sec. cor. of secs. 35 and 36. Set an iron post, 30 ins. long, 2½ ins. diam., 6 ins. in the ground, in a mound of stone, 4 ft. base to top, with brass cap mkd. T18S R23E ¼ S35 | S36 1960
42.50	Spur, projects E.; desc. 270 ft. over N. slope.
51.60	Wash, 20 lks. wide, 2 ft. deep, drains E.; asc. 70 ft. over S. slope.
55.90	Spur, projects E.; desc. 130 ft. over N. slope.
61.80	Wash, 30 lks. wide, 1 ft. deep, drains E.; asc. 280 ft. over S. sl
75.70	Ridge, bears N. 70° W. and S. 70° E.; desc. about 10 ft. over N. s
76.73	Point for the cor. of secs. 25, 26, 35 and 36, on a sectional correction line. Set an iron post, 30 ins. long, 2½ ins. diam., 8 ins. in the ground, in a mound of stone, 3½ ft. base to top, with brass cap mkd. T18S R23E S26 | S25 S35 | S36 1960 Land, broken. Soil, shallow sand and gravel, exposed sandstone. Timber, scattered scrub juniper.
	From the cor. of secs. 25 and 36, on the E. bdy. of the Tp., monumented with an iron post, 2 ins. diam., set, mkd. and witnessed as described in the official record. West, bet. secs. 25 and 36, on a sectional correction line. Over broken land, through scattered timber. Desc. 140 ft. over W. slope.
10.90	Wash, 10 lks. wide, 2 ft. deep, drains S.; asc. 250 ft. over E. s
26.40	Ridge, bears N. and S.; desc. 250 ft. over W. slope.
39.97	Point for the ¼ sec. cor. of secs. 25 and 36. Set an iron post, 30 ins. long, 2½ ins. diam., 3 ins. in the ground, in a mound of stone, 4 ft. base to top, with brass cap mkd. T18S R23E ¼ S25 S36 1960
54.90	Wash, 60 lks. wide, 4 ft. deep in bottom of Auta Canyon, drains S. from W.; asc. 350 ft. along N. slope.
79.94	The cor. of secs. 25, 26, 35 and 36. Land, mountainous, broken. Soil, shallow sand and gravel, exposed sandstone. Timber, scattered scrub juniper.

Subdivision of T. 18 S., R. 23 E.

Chains	
	From the cor. of secs. 33 and 34, on the S. bdy. of the Tp., monumented with a 2½ ins. iron post, previously described.
	N. 0° 02' W., bet. secs. 33 and 34.
	Over broken land, through scattered timber.
	Asc. 120 ft. over SW. slope.
10.40	Spur, projects S. 80° E.; desc. 560 ft. over N. slope.
17.10	Wash, 15 lks. wide, 2 ft. deep, drains N. 15° E.
31.50	Wash, 20 lks. wide, 3 ft. deep, drains S. 30° E.; asc. 100 ft. over SW. slope.
36.47	Point for the ¼ sec. cor. of secs. 33 and 34.
	Set an iron post, 30 ins. long, 2½ ins. diam., 8 ins. in the ground, in a mound of stone, 3 ft. base to top, with brass cap mkd.
	T18S. R23E. ¼ S33 | S34 1960
45.50	Head of ravine, drains SW.; asc. 340 ft. over SE. slope.
52.10	Spur, projects SW.; asc. 140 ft. over broken SW. slope.
76.47	Point for the cor. of secs. 27, 28, 33 and 34, on a sectional correction line.
	Set an iron post, 30 ins. long, 2½ ins. diam., 6 ins. in the ground, in a mound of stone, 3 ft. base to top, with brass cap mkd.
	T18S. R23E. S28 | S27 S33 | S34 1960
	Land, broken. Soil, sandy clay, exposed sandstone. Timber, scattered pinion and juniper.
	N. 0° 02' W., bet. secs. 27 and 28.
	Over broken land, through scattered timber.
	Asc. 170 ft. over SW. slope.
15.50	Spur, projects S. 20° E.; desc. 80 ft. over NE. slope.
27.50	Base of ascent, bears E. and W.; asc. 120 ft. over S. slope.
36.10	Top of ascent, bears E. and W.; desc. 310 ft. over N. slope.
40.00	Point for the ¼ sec. cor. of secs. 27 and 28.
	Set an iron post, 30 ins. long, 2½ ins. diam., 8 ins. in the ground, in a mound of stone, 3½ ft. base to top, with brass cap mkd.
	T18S R23E ¼ S28 | S27 1960
61.00	Ravine, drains N. 75° E.; asc. 80 ft. over SE. slope.

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Subdivision of T. 18 S., R. 23 E.

Chains	
67.10	Spur, projects NE.; desc. 170 ft. over NE. slope.
76.60	Ravine, drains S. 30° E.; asc. 50 ft. over steep S. slope.
80.00	Point for the cor. of secs. 21, 22, 27 and 28.
	Set an iron post, 30 ins. long, 2½ ins. diam., 4 ins. in the ground, in a mound of stone, 4 ft. base to top, with brass cap mkd.
	T18S. R23E S21 | S22 S28 | S27 1960
	Land, broken. Soil, sandy clay, rocky. Timber, scattered pinion and juniper.
	N. 0° 02' W., bet. secs. 21 and 22.
	Over broken, mountainous land, through dense timber.
	Asc. abruptly 160 ft. over sandstone ledges bearing E. and W.
5.00	Top of ascent, bears E. and W.; thence by triangulation; desc. about 390 ft. over steep N. slope.
22.00	Approx. dist. to bottom of Auta Canyon, drains E.; asc. about 620 ft over steep S. slope.
35.70	Point selected for the witness ¼ sec. cor. of secs. 21 and 22.
	Set an iron post, 30 ins. long, 2½ ins. diam., 4 ins. in the ground, in a mound of stone, 3½ ft. base to top of post, with brass cap mkd.
	T18S R23E ¼ W C S21 | S22 1960
40.00	Point for the ¼ sec. cor. of secs. 21 and 22 falls on precipitous S. slope where cor. cannot be perpetuated.
68.70	Ridge, bears E. and W.; end of triangulation, thence over nearly level land.
80.00	Point for the cor. of secs. 15, 16, 21 and 22.
	Set an iron post, 30 ins. long, 2½ ins. diam., 6 ins. in the ground, in a mound of stone, 3½ ft. base to top, with brass cap mkd.
	T18S. R23E. S16 | S15 S21 | S22 1960
	Land, mountainous, broken. Soil, sandy clay and rocky. Timber, dense pinion and juniper.
	N. 0° 02' W., bet. secs. 15 and 16.
	Over rolling land, through dense timber.

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Subdivision of T. 18 S., R. 23 E.

Chains	
	Asc. 90 ft. over gentle S. slope.
7.20	Wash, 5 lks. wide, 1 ft. deep, drains S. 15° E.
14.50	Top of ascent, bears E. and W.; desc. 240 ft. over gentle N. slope.
19.70	Leave dense timber, bears E. and W.; enter burned area.
24.60	Wash, 10 lks. wide, 3 ft. deep, drains NE.; asc. 100 ft. over SE. slope.
30.60	Top of ascent, bears E. and W.; desc. 20 ft. over N. slope.
35.00	Wash, 15 lks. wide, 2 ft. deep, drains S. 80° E.; asc. 50 ft. over S. slope.
40.00	Point for the ¼ sec. cor. of secs. 15 and 16.
	Set an iron post, 30 ins. long, 2½ ins. diam., 6 ins. in the ground, in a mound of stone, 3 ft. base to top, with brass cap mkd.
	T18S R23E ¼ S16 | S15 1960
45.00	Top of ascent, bears E. and W.; desc. 230 ft. over NE. slope.
57.70	Enter dense timber, bears E. and W.
68.80	Ravine, drains N. 70° E.; asc. 80 ft. over SE. slope.
74.30	Spur, projects N. 75° E.; desc. 20 ft. over N. slope.
80.00	Point for the cor. of secs. 9, 10, 15 and 16.
	Set an iron post, 30 ins. long, 2½ ins. diam., 8 ins. in the ground, in a mound of stone, 3 ft. base to top, with brass cap mkd.
	T18S R23E S 9 | S10 S16 | S15 1960
	Land, rolling. Soil, sandy loam, with exposed sandstone. Timber, dense pinion and juniper except burned area.

	N. 0° 02' W., bet. secs. 9 and 10.
	Over mountainous land, through dense timber.
	By triangulation; desc. about 660 ft. over broken N. slope.
20.00	Approx. dist. to ravine, drains S. 80° E.; thence asc. about 420 ft. over broken ledges on steep S. slope.
40.00	Point for the ¼ sec. cor. of secs. 9 and 10.
	Set an iron post, 30 ins. long, 2½ ins. diam., 10 ins. in the ground, in a mound of stone, 2½ ft. base to top, with brass cap mkd.
	T18S R23E ¼ S 9 | S10 1960
	Asc. abruptly over sandstone ledge.

Subdivision of Tp. 18 S., R. 23 E.

Chains	
41.40	Top of ledge, 30 ft. high, bears E. and W.; end of triangulation.
44.70	Top of ascent, bears irregularly E. and W.; thence across top.
60.60	Leave dense timber, bears N. 30° W. and S. 40° E.; enter burned
80.00	Point for the cor. of secs. 3, 4, 9 and 10.
	Set an iron post, 30 ins. long, 2½ ins. diam., 10 ins. in the ground, in a mound of stone, 3 ft. base to top, with brass cap mkd.
	T18S R23E S4 | S3 S9 | S10 1960
	Land, mountainous. Soil, sandy loam and rocky. Timber, dense pinion and juniper S. 60.00 chs.
	N. 0° 16' W., bet. secs. 3 and 4.
	Over mountainous land.
	Asc. 80 ft. over SW. slope.
13.20	Top of ascent, bears S. 80° E. and N. 15° W.; desc. 60 ft. along E. slope; leave burned area, enter dense timber, bears N. 80° W. and S. 80° E.
40.00	Point for the ¼ sec. cor. of secs. 3 and 4.
	Set an iron post, 30 ins. long, 2½ ins. diam., 12 ins. in the ground, in a mound of stone, 2 ft. base to top, with brass cap mkd.
	T18S R23E ¼ S4 | S3 1960
	Asc. 140 ft. along E. slope, over sandstone outcroppings and ledges.
57.70	Spur, projects E.; desc. 540 ft. over steep N. slope.
79.00	Ravine, drains N. 60° E.; asc. 90 ft. over SE. slope.
85.46	The cor. of secs. 3, 4, 33 and 34, on the N. bdy. of the Tp.
	Land, mountainous. Soil, sandy clay, loam, rocky. Timber, dense pinion and juniper.
	From the cor. of secs. 1, 2, 35 and 36, on the N. bdy. of the Tp.
	S. 0° 01' E., bet. secs. 1 and 2.
	Over mountainous land, through medium timber.
4.30	Desc. about 270 ft. over abrupt SE. slope; by triangulation.
12.00	Approx. dist. to ravine, drains SW.; asc. about 150 ft. over NW. slope.
16.00	Approx. dist. to spur, projects SW.; desc. about 550 ft. over steep

Chains	
33.00	Approx. dist. to ravine, drains S. 80° E.; asc. about 360 ft. over N. slope.
43.79	End of triangulation.
45.75	Point for the ¼ sec. cor. of secs. 1 and 2.
	Set an iron post, 30 ins. long, 2½ ins. diam., on solid sandstone, in a mound of stone, 4 ft. base to top, with brass cap mkd.
	T18S R23E ¼ S2 | S1 1960
49.10	Ridge, bears E. and W.; thence by triangulation; desc. about 440 ft. over steep and broken S. slope.
69.00	Approx. dist. to ravine, drains S. 80° E.; asc. about 600 ft. over N. slope.
85.07	Ridge, bears E. and W.; end of triangulation.
85.75	Point for the cor. of secs. 1, 2, 11 and 12.
	Set an iron post, 30 ins. long, 2½ ins. diam., 14 ins. in the ground, in a mound of stone, 3 ft. base to top, with brass cap mkd.
	T18S R23E S2 | S1 S11 | S12 1960
	Land, mountainous, broken. Soil, shallow sand, exposed sandstone. Timber, dense pinion and juniper.

	From the cor. of secs. 2, 3, 34 and 35, on the N. bdy. of the Tp.
	S. 0° 02' E., bet. secs. 2 and 3.
	By triangulation, over nearly level land.
7.60	Approx. dist. to N. edge of dense timber, bears E. and W.; desc. about 460 ft. over broken sandstone ledges on S. slope.
20.60	Approx. dist. to ravine, drains E.; asc. about 290 ft. over broken N. slope.
45.60	Point for the ¼ sec. cor. of secs. 2 and 3.
	Set an iron post, 30 ins. long, 2½ ins. diam., 10 ins. in the ground, in a mound of stone, 2½ ft. base to top, with brass cap mkd.
	T18S R23E ¼ S3 | S2 1960
48.85	End of triangulation; asc. 170 ft. over N. slope.
85.60	Point for the cor. of secs. 2, 3, 10 and 11.
	Set an iron post, 30 ins. long, 2½ ins.diam., on solid sandstone, in a mound of stone, 4 ft. base to top, with brass cap mkd.

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Subdivision of T. 18 S., R. 23 E.

Chains	
	T18S R23E S3 | S2 S10 | S11 1960
	, mountainous. , shallow sand, exposed sandstone. r, dense pinion and juniper.
	the cor. of secs. 1, 2, 11 and 12.
	N. 89° 52' W., bet. secs. 2 and 11.
	Over mountainous land, through dense timber.
	By triangulation; asc. about 50 ft. along broken S. slope.
33.96	Ridge, bears E. and N. 80° W.; end of triangulation; desc. 100 ft. NW. slope.
40.05	Point for the ¼ sec. cor. of secs. 2 and 11.
	Set an iron post, 30 ins. long, 2½ ins. diam., 18 ins. in the ground, in a mound of stone, 2 ft. base to top, with brass cap mkd.
	T18S R23E ¼ S 2 S11 1960
	Thence by triangulation; desc. about 20 ft. over NW. slope.
45.00	Approx. dist. to ravine, drains N. 10° W.; asc. about 70 ft. over NE. slope, over series of low sandstone ledges.
50.00	Approx, dist. to spur, projects N.; desc. about 200 ft. over NW. s
65.00	Approx. dist. to ravine, drains N. 75° E.; asc. about 300 ft. over broken SE. slope.
76.67	Spur, projects N. 10° E.; end of triangulation; desc. 10 ft. over W. slope.
80.10	The cor. of secs. 2, 3, 10 and 11.
	Land, mountainous. Soil, shallow sand, exposed sandstone. Timber, dense pinion and juniper.
	the cor. of secs. 15, 16, 21 and 22.
	st, bet. secs. 16 and 21.
	c. 70 ft. over E. slope.
10.80	Ridge, bears N. and S.; desc. 20 ft. over W. slope.
18.40	Slope changes to SW.; desc. 80 ft.
33.10	Slope changes to steep, broken W. slope; desc. 370 ft.
34.65	Point selected for the witness cor. of secs. 16 and 21.

Chains	
	Set an iron post, 30 ins. long, 2½ ins. diam., on solid sandstone, in a mound of stone, 4 ft. base to top, with brass cap mkd.
	T18S R23E ¼ W S16 C S21 1960
	Thence by triangulation.
40.00	Point for the ¼ sec. cor. of secs. 16 and 21 falls on ledge sloping W. where cor. cannot be perpetuated.
45.00	Approx. dist. to ravine, drains S.; asc. about 300 ft. over steep, broken ledges on E. slope.
50.00	Approx. dist. to spur, projects S.; desc. about 260 ft. over ledges along broken S. slope.
67.00	Approx. dist. to bottom of Auta Canyon, drains S. 60° E.; asc. abrupt and broken NE. slope over sandstone ledges about 370 ft.
80.00	Point for the cor. of secs. 16, 17, 20 and 21.
	Set an iron post, 30 ins. long, 2½ ins. diam., 14 ins. in the ground, in a mound of stone, 2½ ft. base to top, with brass cap mkd.
	T18S R23E S17 | S16 S20 | S21 1960
	Land, broken, mountainous. Soil, shallow sand, exposed sandstone. Timber, dense pinion and juniper.
	N. 0° 03' W., bet. secs. 16 and 17.
	Over mountainous land, through dense timber.
	By triangulation; desc. about 370 ft. over sandstone outcroppings and ledges on steep NE. slope.
15.00	Approx. dist. to Auta Canyon, drains S. 60° E.; asc. about 450 ft. over abrupt and broken sandstone ledges on steep SW. slope.
28.90	Ledge, 50 ft. high, bears E. and W.; end of triangulation.
35.30	Ridge, bears E. and W.; desc. 60 ft. over N. slope.
40.00	Point for the ¼ sec. cor. of secs. 16 and 17.
	Set an iron post, 30 ins. long, 2½ ins. diam., 8 ins. in the ground, in a mound of stone, 3½ ft. base to top, with brass cap mkd.
	T18S R23E ¼ S17 | S16 1960
	Thence by triangulation.
52.00	Approx. dist. to ravine, drains NE.; asc. about 50 ft. over gentle SE. slope.
75.00	Ascent becomes steep; asc. about 60 ft.

Subdivision of T. 18 S., R. 23 E.

Chains	
80.00	Point for the cor. of secs. 8, 9, 16 and 17.
	Set an iron post, 30 ins. long, 2½ ins. diam., 15 ins. in the ground in a mound of stone, 2 ft. base to top, with brass cap mkd.
	T18S R23E S8 | S9 S17 | S16 1960
	Land, broken S. 30.00 chs., rolling N. 50.00 chs. Soil, sandy loam, rocky. Timber, dense pinion and juniper.
	From the cor. of secs. 9, 10, 15 and 16.
	N. 89° 56' W., bet. secs. 9 and 16.
	Over mountainous land, through dense timber.
	Asc. 110 ft. over E. slope.
12.60	Spur, projects N.; desc. 10 ft. over W. slope.
15.50	Small ravine, drains N.; asc. 30 ft. over E. slope.
19.50	Spur, projects N. 10° E.; thence by triangulation, desc. about 520 ft. over steep and broken NE. slope.
40.02	Point for the ¼ sec. cor. of secs. 9 and 16.
	Set an iron post, 30 ins. long, 2½ ins. diam., 4 ins. in the ground, in a mound of stone, 3 ft. base to top, with brass cap mkd.
	T18S R23E ¼ S 9 S16 1960
47.00	Approx. dist. to ravine, drains N. 15° E.; asc. about 290 ft. over abrupt E. slope, enter burned area.
64.00	Approx. dist. to E. edge of dense timber, bears N. and S.; asc. 150 ft. over gentle E. slope.
80.04	The cor. of secs. 8, 9, 16 and 17.
	Land, mountainous. Soil, sandy, rocky. Timber, dense pinion and juniper.
	From the cor. of secs. 32 and 33 on the S. bdy. of the Tp.
	N. 0° 03' W., bet. secs. 32 and 33.
	Over mountainous land, through dense timber.
	Asc. 90 ft. over sandstone ledge.
2.30	Top of ledge, 50 ft. high, bears NE. and SW.; asc. 60 ft. along E. slope.
22.80	Top of ascent; desc. 140 ft. over NE. slope.

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Chains	
34.50	Ravine, drains S. 75° E.; asc. 120 ft. over SW. slope.
35.79	Point for the ¼ sec. cor. of secs. 32 and 33.
	Set an iron post, 30 ins. long, 2½ ins. diam., 6 ins. in the ground, in a mound of stone, 3 ft. base to top, with brass cap mkd.
	T18S R23E ¼ S32 | S33 1960
40.50	Spur, rpojects E.; desc. 260 ft. over N. slope.
52.00	Ravine, drains SE.; asc. 230 ft. over SW. slope.
63.20	Spur, projects SE.; thence over NE. slope.
70.70	Desc. 150 ft. over steep N. slope.
75.79	Point for the cor. of secs. 28, 29, 32 and 33.
	Set an iron post, 30 ins. long, 2½ ins. diam., 12 ins. in the ground, in a mound of stone, 2½ ft. base to top, with brass cap mkd.
	T18S R23E S29 | S28 S32 | S33 1960
	Land, mountainous. Soil, sandy clay and loam. Timber, dense pinion and juniper.
	From the cor. of secs. 31 and 32, on the S. bdy. of the Tp.
	N. 0° 03' W., bet. secs. 31 and 32.
	Over broken land, through scattered timber; by triangulation; asc. about 40 ft. along E. slope.
4.40	Top of ascent, slopes E.; thence desc. about 30 ft. over N. slope.
12.70	Desc. about 250 ft. over NW. slope.
35.25	Point for the ¼ sec. cor. of secs. 31 and 32.
	Set an iron post, 30 ins. long, 2½ ins. diam., 8 ins. in the ground, in a mound of stone, 3 ft. base to top, with brass cap mkd.
	T18S R23E ¼ S31 | S32 1960
	Asc. abruptly about 140 ft. over sandstone ledges on S. slope.
40.69	Spur, projects W.; end of triangulation; desc. 300 ft. over steep N. slope.
43.20	Begin triangulation.
50.00	Approx. dist. to ravine, drains. W.; asc. about 200 ft. over S. slope.
63.80	Approx. dist. to spur, projects W.; desc. about 270 ft. over N. slope.
72.00	Approx. dist. to ravine, drains W.; asc. about 50 ft. over S. slope.

Subdivision of T. 18 S., R. 23 E.

Chains	
75.25	Point for the cor. of secs. 29, 30, 31 and 32.
	Set an iron post, 30 ins. long, 2½ ins. diam., 15 ins. in the ground in a mound of stone, 3½ ft. base to top of post, with brass cap mkd.
	T18S R23E S30 | S29 S31 | S32 1960
	Land, mountainous, broken. Soil, shallow sand and loam, rocky. Timber, scattered pinion and juniper.
	From the cor. of secs. 28, 29, 32 and 33.
	West, bet. secs. 29 and 32.
	Over broken, mountainous land, through medium timber.
	By triangulation; desc. about 100 ft. over NW. slope.
4.80	Approx. dist. to ravine, drains SW.; asc. about 500 ft. over steep SE. slope.
24.98	Top of ascent, projects S.; desc. about 90 ft. over SW. slope.
30.10	Ravine, drains S. 80° E.; asc. about 20 ft. over NE. slope.
37.50	Spur, projects N.; end of triangulation; desc. 20 ft. over NW. s
39.89	Point for the ¼ sec. cor. of secs. 29 and 32.
	Set an iron post, 30 ins. long, 2½ ins. diam., 8 ins. in the ground in a mound of stone, 3 ft. base to top, with brass cap mkd.
	T18S R23E ¼ S29 S32 1960
41.90	Ravine, drains N. 70° E.; asc. 290 ft. over SE. slope.
61.30	Spur, projects N. 20° E.; desc. 180 ft. along N. slope.
72.55	By triangulation; desc. about 200 ft. over abrupt and broken W. slope.
79.78	The cor. of secs. 29, 30, 31 and 32.
	Land, mountainous, broken. Soil, sandy loam and clay. Timber, medium dense pinion and juniper.

General Description

T. 18 S., R. 23 E. is mountainous, broken land located in the Book Cliffs and varies in elevation from 5,400 ft. to 7,000 ft. above sea level.

The northeast portion of the township is drained in a southeasterly direction by Auta Canyon and a fork of the Westwater Creek. The southwest portion of the township is drained in a southerly direction by a fork of Diamond Canyon. No roads or water were noted. Timber consists of scrub juniper in the southeast corner to dense

4-680
(Feb., 1960)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FIELD ASSISTANTS

NAMES	CAPACITY
Wallace R. Ott	Principal Assistant, Transitman
Parley Pratt	Chainman
Gordon Shurtz	Flagman
Robert W. Fisher	Cornerman
Eldon W. Sibley	Notekeeper
Glen B. Hatch	Notekeeper

16—58566-2

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CERTIFICATE OF CADASTRAL ENGINEER

I, George D. Vorrhees, HEREBY CERTIFY upon honor that, in pursuance of special instructions bearing date of the 15th day of September, I have R. 23 E. and the survey of the north boundary and a portion of the subdivisional lines of T. 18 S. R. 23 E.

of the Salt Lake Meridian, in the State of Utah, which represented in the foregoing field notes as having been executed by me and under my supervision, and said 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.

Salt Lake City, Utah

June 14, 1961

George D. Voorhees

CERTIFICATE OF APPROVAL

BUREAU OF LAND MANAGEMENT,

Washington, D. C., JUL 19 1962, *19*

The foregoing field notes of the ~~survey of~~ T. 19 S., R. 23 E. survey of the north boundary and a portion of the subdivisional lines of T. 18 S., R. 23 E. Salt Lake Meridian Utah

executed by Eldon W. Siblev and Glen B. Hat[illegible] Cadastral S[illegible]r under the supervision of George D. Voorhees, Cadastral Surveyor having been critically examined and found correct, are hereby approved.

~~Cadastral Engineering Staff Officer.~~
Chief, Division of Engineering

CERTIFICATE OF TRANSCRIPT

~~I CERTIFY that the~~ _____, is a true copy of the [illegible]

U. S. GOVERNMENT PRINTING OFFICE 16—63565-8

4—679
ptember 1948)

ORIGINAL

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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ORIGINAL

FIELD NOTES

OF THE DEPENDENT RESURVEY

OF THE NORTH BOUNDARY

OF TOWNSHIP 19 SOUTH, RANGE 25 EAST

AND THE SURVEY

OF A PORTION

OF THE SUBDIVISIONAL LINES OF

TOWNSHIP 18 SOUTH, RANGE 25 EAST.

Of the SALT LAKE *Meridian,*

the State of UTAH

EXECUTED BY

Alburn D. Griffin, under the supervision of George D. Voorhees

der special instructions dated September 15, *19*58, *which provided*

the surveys included under Group No. 402, *approved* September 30, 1958

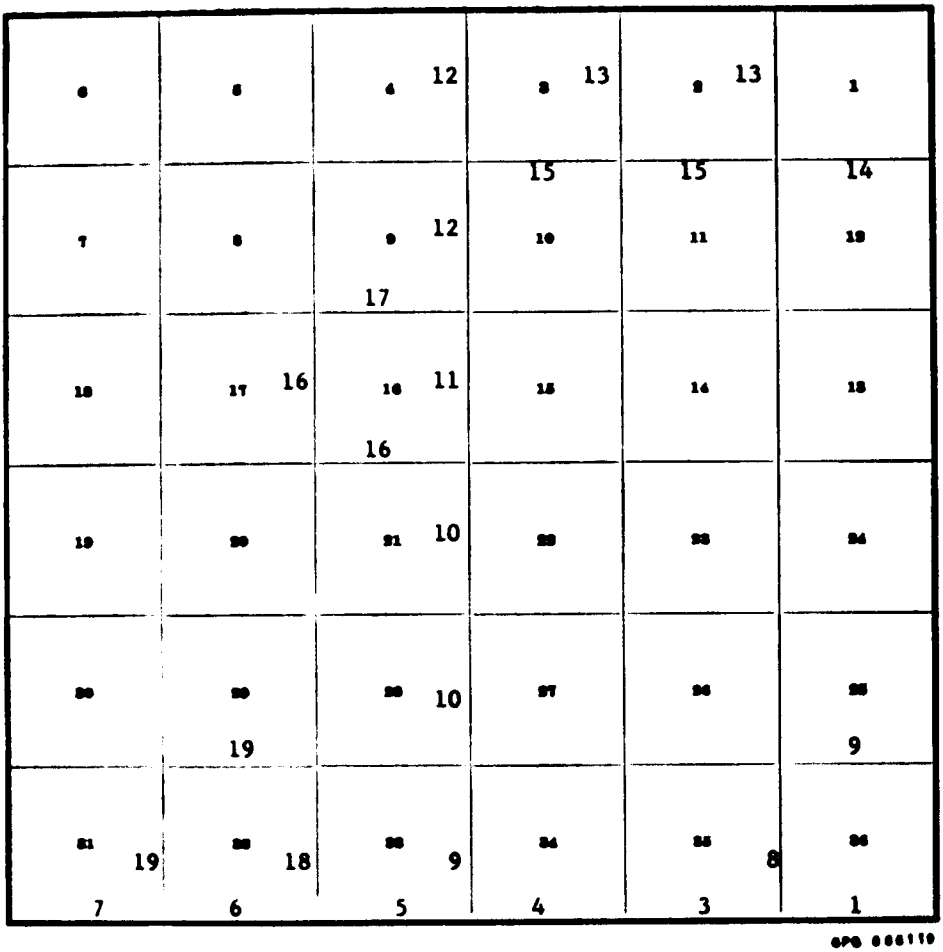
d assignment instructions dated April 14, *19*60

Survey commenced May 6, *19*60

Survey completed May 19, *19*60

INDEX DIAGRAM

Township 18 South, *Range* 25 East



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7	8	9 12 17	15 10	15 11	14 12
18	17 16	16 11 16	15	14	13
19	20	21 10	22	23	24
30	29 19	28 10	27	26	25 9
31 19 7	32 18 6	33 9 5	34 4	35 8 3	36 1

GPO 888119

Township 18 South, Range 25 East

Chains

The north and west boundaries of T. 18 S., R. 25 E., were surveyed by J. C. Clark in 1924. The east boundary was surveyed by R. Gentry in 1915. The south boundary was surveyed by Frank E. Baxter in 1894.

The following field notes are those of a dependent resurvey of the north boundary of T. 19 S., R. 25 E., and survey of a portion of the subdivisional lines of T. 18 S., R. 25 E., to facilitate development of the natural resources and mark the boundaries of those sections that normally are considered state school sections.

The survey was executed with a W. & L. E. Gurley solar transit No. 541330, constructed in accordance with the standard instrumental specifications of the Bureau of Land Management. The instrument was in good condition prior to the beginning of the survey and was maintained in proper adjustment throughout the progress of this survey.

Corners on east-west lines were set on the true latitudinal curve. Lines connecting previously established corners were run by random and true method, but for simplification of the record the random lines are omitted from the field notes. In accordance with the intent of the special instructions, all subdivisional corners established are calculated to be at the position they would occupy if the entire township were subdivided.

Measurements herein contained were made with a narrow steel tape, eight chains in length, graduated every link for the first 100 links and thereafter at intervals of 10 links. The tape was tested by comparison with a 1 chain standard steel tape and found to be correct. Measurements were made on the slope with the vertical angle of each interval ascertained by a clinometer in good adjustment; horizontal equivalents alone are entered in the field notes. All lines of this survey were run by direct method where the lines were accessible; lines inaccessible were run by traverse or triangulation methods. The details of such traverses or triangulations have been thoroughly checked and verified, and in order to simplify the record the diagrams and reductions are omitted from these field notes.

The direction of the lines of this survey were determined by reference to true meridians established on line by hour angle observations on Polaris or altitude observations on the sun. The lines were carried forward by sustained angulation being supplemented by other numerous altitude observations on the sun taken throughout the progress of the survey.

The geographic position for the southeast corner of the township is at latitude 39° 11' 26.6" N. and longitude 109° 05' 18.2" W. as determined from a tie to U.S.C. & G.S. triangulation station "Bitter" located in section 1, T. 18 S., R. 24 E.

The magnetic declination was read at a number of stations throughout the township and the average of these readings was found to be 15° 15' E.

Dependent Resurvey of the North Boundary of T. 19 S., R. 25 E. and Establishment Thereon of Corners Pertaining to T. 18 S., R. 25 E. at Intervals of 40.00 chains from the Corner of Tps. 18 and 19 S., Rs. 25 and 26 E.

Reestablishment of the survey executed by Frank E. Baxter in 1894.

Beginning at the cor. of Tps. 18 and 19 S., Rs. 25 and 26 E., monumented by a 3 in. iron post, firmly set, mkd. and witnessed, as described in the field notes of the 1915 survey of the W. bdy. of T. 18 S., R. 26 E.

S. 89° 56' W., along the N. bdy. of sec. 1, over rolling desert land, covered with shadscale and grama grass.

De[illegible]t Resurvey of the North [illegible] of T. 19 S. R. 25 E.

Chains	
4.40	Wash, 20 lks. wide, 5 ft. deep, drains SE.; asc. 70 ft. over NE. slope
14.80	Spur, slopes N.; desc. 20 ft. over W. slope.
20.30	Small wash, drains N.; asc. 20 ft. over E. slope.
24.60	Spur, slopes N.; desc. 10 ft. over NW. slope.
30.30	Wash, 10 lks. wide, 2 ft. deep, drains NE.; desc. gentle W. slope, 20 ft.
38.20	Wash, 10 lks. wide, 2 ft. deep, drains N.
40.00	Point for ¼ sec. cor. of sec. 36, T. 18 S., R. 25 E. Set an iron pos 30 ins. long, 2½ ins. diam., 20 ins. in the ground and in a collar of stone, with brass cap mkd.

T18S R25E
¼ S36
1960

40.18	The ¼ sec. cor. of secs. 1 and 36, monumented by a sandstone plainly mkd., set, mkd. and witnessed as described in the field notes of the 1894 survey of the N. bdy. of T. 19 S., R. 25 E.

At the cor. point

Set an iron post, 30 ins. long, 2½ ins. diam., 20 ins. in the ground and in a collar of stone, with brass cap mkd.

T18S R25E
¼ S 1
T19S
1960

S. 89° 52' W., beginning new measurement.

Over nearly level desert land draining NE.

39.30	Wash, 20 lks. wide, 3 ft. deep, drains NE.
39.82	Point for the cor. of secs. 35 and 36, T. 18 S., R. 25 E.

Set an iron post, 30 ins. long, 2½ ins. diam., 20 ins. in the ground and in a collar of stone, with brass cap mkd.

T18S R25E
S35 | S36
1960

40.14	Point for the original cor. of secs. 1, 2, 35 and 36, at proportiona dist. There is no remaining evidence of the original cor. This point now functions as the cor. of secs. 1 and 2 only.

Set an iron post, 30 ins. long, 2½ ins. diam., 20 ins. in the ground and in a collar of stone, with brass cap mkd.

T18S R25E
S 2 | S 1
T19S
1960

Land, rolling and nearly level desert.
Soil, sandy loam mixed with light gravel.
Timber, sparse juniper.

S. 89° 52' W., along the N. bdy. of sec. 2.

Dependent Resurvey of the North Boundary of T. 19 S., R. 25 E.

Chains	
	Asc. over rolling desert land covered with shadscale, grama and bunch grass.
9.00	Jeep road, bears NE. and S.; asc. 20 along S. slope
14.00	Spur, slopes south; desc. 20 ft. over west slope
20.00	Draw, drains SE.; asc. 110 ft. over E. slope. Enter scattered juniper and pinon
32.00	Spur, slopes NE., desc. 30 ft. over W. slope
36.00	Wash, in bottom of draw, 50 lks. wide, 2 ft. deep, drains NE.; asc. 30 ft. over E. slope.
39.68	Point for the ¼ sec. cor. of sec. 35, T. 18 S., R. 25 E. Set an iron post 30 ins. long, 2½ ins. diam., 18 ins. in the ground, and in a collar of stone, with brass cap mkd. T18SR25E ¼ S35 1960
40.15	The original ¼ sec. cor. of secs. 2 and 35, set, mkd., and witnessed as described in the field notes of the 1894 survey of the N. bdy. of T. 19 S., R. 25 E. At the cor. point Set an iron post 30 ins. long, 2½ ins. diam., 18 ins. in the ground and in a collar of stone with brass cap mkd. ¼ S2 T19SR25E 1960 Deposit original cor. stone alongside of iron post
	N. 89° 47' W., along the N. bdy. of sec. 2, beginning new measurement.
	Asc. 90 ft. over steep E. slope.
8.90	Top of ascent, bears NE. and SW. desc. 60 ft. over West slope.
34.30	Highway, U. S. 50 & 6, bears N. 20° 05' E. and S.20° 05' W.
34.80	Telephone line, bears N. 19° 30' E. and S 19° 30' W.
39.53	Point for the cor. of secs. 34 and 35, T. 18 S., R. 25 E. Set an iron post 30 ins. long, 2½ ins. diam., 20 ins. in the ground and in a collar of stone, with brass cap marked: T18SR25E S34|S35 1960
40.17	The original cor. of secs. 2, 3, 34, and 35, a stone set, mkd. and witnessed as described in the field notes of the 1894 survey of the N. bdy. of T. 19 S., R. 25 E. At the corner point.

Chains	
	Set an iron post 30 ins., long, 2½ ins. diam., 20 ins. in the and in a collar of stone, with brass cap mkd.
	S3 | S2 T19SR25E 1960
	Deposit original cor. stone alongside of iron post
	Land, rolling desert. Soil, sandy and light gravel. Timber, scattered juniper and pinon.
	S. 89° 59' W. along the N. bdy. of sec. 3
	Over rolling land covered with scattered juniper, shadscale, grama and bunch grass
.90	Wash, 120 lks. wide, 4 ft. deep, drains SE., asc. 90 ft. over E slope.
28.30	Ridge, bears N. and S.; desc. 20 ft. over west slope.
39.36	Point for the ¼ sec. cor. of sec. 34, T. 18 S., R. 25 E.
	Set an iron post 30 ins. long, 2½ ins. diam., 24 ins. in the g with brass cap mkd.
	T18S R25E ¼ S34 1960
	Deposit charcoal at base of iron post
40.09	The original ¼ sec. cor. of secs. 3 and 34, a stone set, marked, witnessed as described in the field notes of the 1894 survey of N. Bdy. of T. 19 S., R. 25 E.
	At the cor. point.
	Set an iron post 30 ins. long, 2½ ins., diam., 18 ins. in the gro and in a collar of stone, with brass cap mkd.
	¼ S3 T19SR25E 1960
	Deposit original stone cor. alongside of iron post.
	West, beginning new measurement.
	Over gently rolling land.
24.90	Wash, 20 lks. wide, 3 ft deep, drains NE.
39.27	Point for the cor. of secs. 33 and 34, T. 18 S., R. 25 E.
	Set an iron post 30 ins. long, 2½ ins., diam., 20 ins. in the and in a collar of stone, with brass cap mkd.
	T18S R25E S33 | S34 1960
40.17	The original cor. of secs. 3, 4, 33, and 34, set, mkd., and witnes as described in the field notes of the 1894 survey of the North

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Dependent Resurvey of the N. bdy. of T. 19 S., R. 25 E.

Chains	
	of T. 19 S., R. 25 E.
	At the cor. point
	Set an iron post, 30 ins. long, 2½ ins. diam., 12 ins. in the ground, and in a mound of stone, 3 ft. base to top, with brass cap mkd. S4 | S3 T19SR25E 1960
	Deposit original cor. stone alongside of iron post.
	Land, rolling desert. Soil, sandy loam and light gravel. Timber, none.
	N. 89° 58' W., along the N. bdy. of sec. 4
	Over gently rolling desert land.
7.60	Wash, 20 lks. wide, 2 ft. deep, drains NE.; asc. 30 ft. over E slope.
16.00	Ridge, bears N. and S.; desc. 20 ft. over gentle W. slope.
24.10	Unimproved road, bears NE. and SW.; desc. 50 ft. over west slope.
36.00	Wash, 20 lks. wide, 1 ft. deep, drains N.
39.10	Point for the ¼ sec. cor. of sec. 33, T. 18 S., R. 25 E.
	Set an iron post 30 ons. long, 2½ ins. diam., 14 ins. in the ground and in a collar of stone with brass cap mkd. T18SR25E ¼ S33 1960
40.16	The original ¼ sec. cor. of secs. 4 and 33, a stone firmly set, mkd., and witnessed as described in the field notes of the 1894 survey of the N. bdy. of T19SR25E
	At the cor. point.
	Set an iron post 30 ins., long, 2½ ins. diam., 16 ins. in the ground and in a collar of stone with brass cap mkd. ¼ S4 T19SR25E 1960
	Deposit original stone cor. alongside of iron post.
	S. 89° 58' W., beginning new measurement.
	Desc. 40 ft. over gentle west slope.
10.80	Wash, 90 lks. wide, 8 ft. deep, drains SW., desc. 10 ft. over W. slope.
13.60	Wash, 10 lks. wide, 3 ft. deep, drains S.
15.60	Head of wash, 10 lks. wide, 3 ft. deep, drains S.; asc. 20 ft. along South slope.

Dependent Resurvey of the North Boundary of T. 19 S., R. 25 E.

Chains

19.30 Top of ascent, bears N. and S.; desc. 10 ft. over W. slope.

20.00 Wash, 30 lks. wide, 3 ft. deep, drains S.; desc. 20 ft. over SW slope.

24.40 Wash, 40 lks. wide, 5 ft. deep, drains S.

30.20 Wash, 50 lks. wide, 4 ft. deep, drains SW., asc. 70 ft. over SE slope.

37.40 Spur, slopes S., desc. 30 ft. over W slope.

38.94 Point for the cor. of secs. 32 and 33, T. 18 S., R. 25 E.

Set an iron post, 30 ins. long, 2½ ins. diam., 20 ins. in the ground and in a collar of stone with brass cap mkd.

T18S R25E
S32 | S33
1960

40.16 Point for the cor. of secs. 4 and 5, at proportionate dist. There is no remaining evidence of the original cor.

Set an iron post 30 ins. long, 2½ ins. diam., 20 ins. in the ground, and in a collar of stone, with brass cap mkd.

S5 | S4
T19SR25E
1960

Land, rolling desert.
Soil, sandy loam, and light gravel.
Timber, sparse juniper.

S. 89° 58' W. along the N. bdy of sec. 5.

Over rolling desert land covered with shadscale, grama and bunch grass.

Desc. 40 ft. over west slope.

12.60 Wash, 20 lks. wide, 3 ft. deep, drains SW., desc. 70 ft. over W. slope.

38.78 Point for the ¼ sec. cor. of sec. 32, T. 18 S., R. 25 E.

Set an iron post 30 ins. long, 2½ ins. diam., 20 ins. in the ground, and in a collar of stone, with brass cap mkd.

T18SR25E
¼ S32
1960

40.16 The original ¼ sec. cor. of secs. 5 and 32, a stone firmly set, mkd., and witnessed as described in the field notes of the 1894 survey of the N. bdy. of T19SR25E.

At the cor. point.

Set an iron post 30 ins. long, 2½ ins. diam., 18 ins. in the ground and in a collar of stone, with brass cap mkd.

¼ S5
T19SR25E
1960

Deposit original stone cor. alongside of iron post.

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Dependent Resurvey of the South Boundary of the T. 19 S., R. 25 E.

Chains	
	N. 89° 57' W., beginning new measurement.
1.00	Wash, 30 lks. wide, 5 ft. deep, drains S.
2.80	Wash, 90 lks. wide, 10 ft. deep, drains S.
4.70	Wash, 30 lks. wide, 4 ft. deep, drains SE.
10.70	Telephone line, bears S. 42° 59' W., and N. 42° 59' E.
38.60	Point for the cor. of secs. 31 and 32, T. 18 S., R. 25 E.
	Set an iron post 30 ins. long, 2½ ins. diam., 20 ins. in the ground, with brass cap mkd.
	T18SR25E S31 | S32 1960
39.98	Point for the cor. of secs. 5 and 6, at proportionate distance. There is no remaining evidence of the original cor.
	Set an iron post 30 ins. long, 2½ ins. diam., 20 ins. in the ground and in a collar of stone with brass cap mkd.
	S6 | S5 T19S R25E 1960
	Land, gently rolling desert. Soil, sandy and light gravel. Timber, none.
	N. 89° 57' W. along the N. bdy. of sec. 6.
	Over gently rolling desert land, covered with shadscale, grama and bunch grass.
23.80	Wash, 50 lks. wide, 6 ft. deep, drains SE.
38.64	Point for the ¼ sec. cor. of sec. 31, T. 18 S., R. 25 E.
	Set an iron post 30 ins. long, 2½ ins. diam., 20 ins. in the ground and in a collar of stone with brass cap mkd.
	T18SR25E ¼ S31 1960
39.98	The original ¼ sec. cor. of secs. 6 and 31, a stone, set, mkd., and witnessed as described in the field notes of the 1894 survey of the N. bdy. of T. 19 S., R. 25 E.
	At the cor. point.
	Set an iron post 30 ins. long, 2½ ins., diam., 18 ins. in the ground, and in a collar of stone, with brass cap mkd.
	¼ S6 T19SR25E 1960
	Deposit original cor. stone alongside of iron post.
	S. 89° 54' W., beginning new measurement
	Asc. 20 ft. over E. slope.

Chains	
24.50	Graded road, bears N. and S.
28.20	Top of ascent bears N. and S.; desc. 10 ft. over W. slope.
29.80	Head of draw, drains N. 80° W.; desc. 50 ft. over W. slope.
34.80	Wash, 10 lks. wide, 2 ft. deep, drains S., desc. 15 ft. over W. s
38.86	Cor. of Tps. 18 and 19 South, Ranges 24 and 25 East monumented wi an iron post, 3 ins. diam., set, mkd., and witnessed as described the field notes of the 1924 Resurvey of the East Boundary of T. 18 R. 24 E.

Survey of
Portions of the Subdivision of T. 18 S., R. 25 E.

Beginning at the cor. of secs. 35 and 36 on the S. bdy. of the Tp., monumented with an iron post, 2½ ins. in diam., set, mkd., and wit nessed as described in the 1960 concurrent resurvey of the N. bdy. of T. 19 S., R. 25 E.

N. 0° 01' W., bet. secs. 35 and 36.

Over gently rolling hills covered with shadscale and bunch grass.

25.20	Wash, 30 lks. wide 7 ft. deep, drains E.
33.80	Forks of two washes, 90 lks. wide, 4 ft. deep, drains E.
40.00	Point for the ¼ sec. cor. of secs. 35 and 36.

Set an iron post, 30 ins. long, 2½ ins. in diam. 22 ins. in the ground and in a collar of stone. Brass cap mks.

T18S R25E
¼
S35 | S36
1960

Asc. 140 ft. over S. slope.

57.70	Spur, projects NE., desc. 20 ft. over N. slope.
60.50	Draw, drains NE., asc. 20 ft. over SE. slope.
70.00	Spur, projects E., desc. 60 ft. over NE. slope.
75.60	Wash, drains NE., asc. 20 ft. over S. slope.
79.70	Ridge, bears E. and W.
80.00	Point for the cor. of secs. 25, 26, 35, and 36.

Set an iron post, 30 ins. long, 2½ ins. in diam. 20 ins. in the ground and in a collar of stone. Brass cap mkd.

T18S R25E
S26 | S25
S35 | S36
1960

Land, gently rolling.
Soil, sandy clay.
No timber.

From the true point for the cor. of secs. 25, 30, 31 & 36 on the bdy. of the Tp. which is witnessed N. 1.00 ch. dist. by a 3 in. post, set, mkd. and witnessed as described in the official record.

Chains	
	S. 89° 58' W., bet. secs. 25 and 36.
	Over gently rolling land.
.80	Road, unimproved, bears NW. and SE.
25.00	Wash, 2 ft. deep, drains S.
28.30	Wash, 3 ft. deep, drains SE.
39.50	Wash, 10 lks. wide, 3 ft. deep, drains SE.
40.01	Point for the ¼ sec. cor. of secs. 25 and 36.
	Set an iron post, 30 ins. long, 2½ ins. in diam. 22 ins. in the ground and in a collar of stone. Brass cap mkd.
	T18SR25E ¼ S25/S36 1960
41.30	Wash, 20 lks. wide 3 ft. deep, drains SE.
46.10	Wash, 10 lks. wide, 2 ft. deep, drains N., asc. 10 ft. over E. slope.
62.20	Beg. ascent, bears E. and W.
71.40	Spur, projects NW., desc. 10 ft. over W. slope.
77.00	Wash, 20 lks. wide, 3 ft. deep, drains NE.
80.02	The cor. of secs. 25, 26, 35, and 36.
	Land, gently rolling. Soil, clay. No timber.
	From the cor. of secs. 33 and 34 on the S. bdy. of the Tp.
	N. 0° 02' W., bet. secs. 33 and 34.
	Over gently rolling desert land, covered with shadscale, grama and bunch grass.
4.10	Wash, 10 lks. wide, 2 ft. deep, drains NE., desc. 20 ft. over gentle NE. slope.
31.40	Wash, 20 lks. wide, 3 ft. deep, drains NE.
40.00	Point for the ¼ sec. cor. of secs. 33 and 34.
	Set an iron post 30 ins. long, 2½ ins. diam., 18 ins. in the ground and in a collar of stone with brass cap mkd.
	T18S R25E ¼ S33|S34 1960
51.10	Wash, 30 lks. wide, 5 ft. deep, drains E.
51.60	Trail-road, bears SE and NW.
75.60	Wash, 10 lks. wide, 3 ft. deep, drains SE.

Portions of the Subdivision of T. 18 S., R. 25 E.

Chains	
80.00	Point for the cor. of secs. 27, 28, 33, and 34.
	Set an iron post 30 ins. long, 2½ ins. diam., 18 ins. in the and in a collar of stone with brass cap mkd.
	T18S R25E S28 | S27 S33 | S34 1960
	Land, gently rolling desert. Soil, sandy loam. Timber, none.
	N. 0° 02' W., bet. secs. 27 and 28.
	Over gently rolling desert land covered with shadscale, grama and bunch grass.
	Asc. 30 ft. over gentle S. slope.
23.60	Base of ridge, bears SE. and NW. Asc. 110 ft. over steep S. slope.
33.50	Top of ridge bears SE and NW., enter scattered juniper
35.50	Graded road, bears SE and NW., desc. 20 ft. over NE. slope
40.00	Point for the ¼ sec. cor. of secs. 27 and 28.
	Set an iron post 30 ins. long, 2½ ins. diam., 18 ins. in the and in a collar of stone with brass cap mkd.
	T18S R25E ¼ S28 | S27 1960
	Desc. 60 ft. over NE. slope.
80.00	Point for the cor. of secs. 21, 22, 27, and 28.
	Set an iron post 30 ins. long, 2½ ins. diam., 24 ins. in the with brass cap mkd.
	T18S R25E S21 | S22 S28 | S27 1960
	Deposit charcoal at base of iron post
	Land, rolling desert Soil, sandy and light gravel. Timber, scattered juniper.
	N. 0° 02' W., bet. secs. 21 and 22.
	Over rolling desert land, through scattered juniper and pinon, s scale, and grama grass.
	Desc. 40 ft. over NE. slope.
18.50	Wash, 50 lks. wide, 5 ft. deep, drains NE., asc. 30 ft. over S. slope.
24.40	Spur, slopes E., desc. 20 ft. over N. slope.

Chains	
28.90	Wash, 40 lks. wide, 3 ft. deep, drains NE., desc. 30 ft. over N. slope.
32.90	Wash, 100 lks. wide, 5 ft. deep, drains E.
35.80	Wash, 100 lks. wide, 10 ft. deep, drains E.
40.00	Point for the ¼ sec. cor. of secs. 21 and 22.
	Set an iron post 30 ins. long, 2½ ins. diam., 20 ins. ;in the ground with brass cap mkd.
	T18S R25E ¼ S21 | S22 1960
	Asc. 50 ft. over S. slope.
50.40	Top of flat top mesa, bears E. and W.
62.50	Descend 50 ft. over N. slope.
80.00	Point for the cor. of secs. 15 and 16 and 21 and 22.
	Set an iron post 30 ins. long, 2½ ins. diam., 20 ins. in the ground with brass cap mkd.
	T18S R25E S16 | S15 S21 | S22 1960
	Deposit charcoal at base of iron post.
	Land, rolling Soil, sandy loam Timber, sparse juniper and pinon.
	N. 0° 02' W., bet. secs. 15 and 16.
	Over gently rolling desert land covered with shadscale and grama grass.
5.00	Trail road, bears E. and W.
11.20	Wash, 3.00 chs. wide, 3 ft. deep, drains NE.
15.10	Wash, 70 lks. wide, 3 ft. deep, drains NE.
16.30	Wash, 1.00 ch. wide, 5 ft. deep drains E.
31.60	Begin asc. 20 ft. over S. slope.
40.00	Point for the ¼ sec. cor. of secs. 15 and 16.
	Set an iron post 30 ins. long, 2½ ins. diam., 20 ins. in the ground with brass cap mkd.
	T18S R25E ¼ S16 | S15 1960
69.30	Wash, 10 lks. wide, 3 ft. deep, drains SE.; asc. 20 ft. over S. slope.
80.00	Point for the cor. of secs. 9, 10, 15, and 16.
	Set an iron post 30 ins. long, 2½ ins. diam., 20 ins. in the ground with brass cap mkd.

Portions of the Subdivision of T. 18 S., R. 25 E.

Chains	
	T18S R25E S9 | S10 S16 | S15 1960
	Deposit charcoal at base of iron post.
	Land, rolling. Soil, sandy loam. Timber, sparse juniper.
	N. 0° 02'W., bet. secs. 9 and 10
	Over rolling land covered with shadscale, grama and bunch grass.
	Asc. 40 ft. over S. slope.
21.90	Wash, 20 lks. wide, 3 ft. deep, drains E.
	Asc. 50 ft. over S. slope.
39.50	Wash, 20 lks. wide, 2 ft. deep, drains E.
40.00	Point for the ¼ sec. cor. of secs. 9 and 10.
	Set an iron post 30 ins. long, 2½ ins. diam., 20 ins. in the g with brass cap mkd.
	T18S R25E ¼ S9 | S10 1960
	No other accessories available.
	Asc. 10 ft. over S. slope
42.20	Small spur, slopes E.; desc. 20 ft. over N. slope.
53.70	Trail road, bears E and W; desc. 10 ft. over N. slope.
63.70	Wash, 50 lks. wide, 6 ft. deep, drains E.; asc. 30 ft. over S. slope.
80.00	Point for the cor. of secs. 3, 4, 9, and 10
	Set an iron post 30 ins. long, 2½ ins. diam., 20 ins. in the and in a collar of stone with brass cap mkd.
	T18S R25E S4 | S3 S9 | S10 1960
	Land, rolling. Soil, sandy and clay. Timber, sparse juniper.
	N. 0° 05' W. bet. secs. 3 and 4.
	Over rolling land draining SE.
	Asc. 40 ft. over S. slope.
25.40	Spur, slopes SE.; desc. 20 ft. over gentle N. slope.
30.00	Head of small draw, drains SE.; asc. 20 ft. over S. slope.

Chains	
40.00	Point for the ¼ sec. cor. of secs. 3 and 4.
	Set an iron post 30 ins. long, 2½ ins. diam., 20 ins. in the ground and in a collar of stone with brass cap mkd.
	T18S R25E ¼ S4 | S3 1960
46.10	Trail road, bears E. and W., desc. 20 ft. over a series of small spurs and washes draining E.
79.94	The true point for the cor. of secs. 3, 4, 33, and 34, on the N. bdy. of the Tp. from which its witness cor. bears N. 89° 54' E., 0.40 chs. dist. an iron post, set, marked, and witnessed as described in the official record.
	Land, rolling. Soil, sandy and clay. Timber, none.

From the cor. of secs. 1, 2, 35, and 36, on the N. boundary of the Tp. monumented by a 3 in. iron post set, mkd., and witnessed as described in the field notes of the 1924 survey of the N. bdy. of T. 18 S., R. 25 E.

S. 0° 01' E. bet. secs. 1 and 2.

Over gently rolling desert land, covered with shadscale and grama grass; desc. 10 ft. over gentle SW. slope.

11.40	Unimproved road, bears E. and W.
12.80	Slope changes to S. slope; desc. 60 ft.
39.98	Point for the ¼ sec. cor. of secs. 1 and 2.
	Set an iron post 30 ins. long, 2½ ins. diam., 20 ins. in the ground and in a collar of stone with brass cap mkd.
	T18S R25E ¼ S2 | S1 1960
53.10	Wash, 30 lks. wide, 8 ft. deep, drains SW.
70.90	Unimproved road, bears NE. and SE.
79.98	Point for lthe cor. of secs. 1, 2, 11, and 12.
	Set an iron post 20 ins. long, 2½ ins. diam. 20 ins. in the ground and in a collar of stone with brass cap mkd.
	Land, rolling. Soil, sandy and clay. Timber, none.
	T18S R25E S2 | S1 S11 | S12 1960

From the cor. of secs. 2, 3, 34, and 35., on the N. bdy. of the Tp., monumented by an iron post, 3 ins. diam., set, mkd., and witnessed as described in the field notes of the 1924 survey of the N. bdy. of T. 18 S. R. 25 E.

S. 0° 01' E. bet., secs. 2 and 3.

Portions of the Subdivision of T. 18 S., R. 25 E.

Chains	
	Over gently rolling desert land covered with shadscale, greasewood, and grama grass.
	Desc. 40 ft. over gentle S. slope.
39.96	Point for the ¼ sec. cor. of secs. 2 and 3
	Set an iron post 30 ins. long, 2½ in diam., 24 ins. in the ground with brass cap mkd.
	T18S R25E ¼ S3 | S2 1960
	No other accessories available.
47.80	Wash, 40 lks. wide, 4 ft. deep, drains SW.
64.00	Same wash, 50 lks. wide, 8 ft. deep, drains from SW to East.
70.50	Wash, 80 lks. wide, 7 ft. deep, drains SE., asc. 20 ft. over NE. slope.
79.10	Short spur, slopes E.; desc. 20 ft. over S. slope.
79.96	Point for the cor. of secs. 2, 3, 10, and 11.
	Set an iron post 30 ins. long, 2½ ins. diam., 20 ins. in the ground and in a collar of stone with brass cap mkd.
	T18S R25E S3 | S2 S10 | S11 1960
	Land, rolling. Soil, sandy loam. Timber, none.
	From the cor. of secs. 1, 6, 7, and 12 on the East bdy. of the Tp., monumented with an iron post 3 ins. in diam. set, mkd., and wi as described in the field notes of the 1915 survey of the E. bdy. T. 18 S., R. 25 E.
	West, bet. secs. 1 and 12.
	Over rolling land covered with shadscale, greasewood, and grama grass.
	Asc. 70 ft. over Steep E. slope.
11.20	Saddle on spur projecting SE.; desc. 80 ft. over steep SW. slope
16.80	Base of spur, bears N. and SE., slope changes to gentle West slope; desc. 10 ft.
40.03	Point for the ¼ sec. cor. of secs. 1 and 12.
	Set an iron post 30 ins. long, 2½ ins. diam., 22 ins. in the ground with brass cap mkd.
	T18S R25E ¼ S1 S12 1960
	No other accessories available.

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Chains	
56.10	Wash, 30 lks., wide, 4 ft. deep, drains SE., asc. 30 ft. over gentle E. slope.
79.20	Unimproved road, bears NW. and SE.
80.06	The cor. of secs. 1, 2, 11, and 12, T. 18 S., R. 25 E.
	Land, rolling. Soil, sandy loam and clay. Timber, none.
	S. 89° 51' W., bet. secs. 2 and 11.
	Over rolling desert land covered with shadscale, greasewood, and grama grass;
	Asc. 10 ft. over E. slope.
.90	Spur, slopes S.; desc. 30 ft. over west slope.
7.50	Base of spur, bears NW. and SE.
13.20	Wash, 50 lks. wide, 10 ft. deep, drains S.
19.90	Wash, 40 lks. wide, 7 ft. deep, drains S.
27.60	Unimproved road, bears N. and S.
39.85	Point for the ¼ sec. cor. of secs. 2 and 11.
	Set an iron post 30 ins. long, 2½ ins. diam., 20 ins. in the ground with brass cap mkd.
	T18S R25E ¼ S2 S11 1960
	No other accessories available.
	Asc. 50 ft. over E. slope.
50.70	Spur, slope N., desc. 30 ft. over W. slope.
52.60	Trail road, bears NE. and SW.; desc. 20 ft. over W. slope.
61.80	Base of spur, bears N. and S.
75.20	Wash, 40 lks. wide, 6 ft. deep, drains SE.
77.10	Wash, 30 lks. wide, 6 ft. deep, drains NE., asc. 20 ft. over E. slope.
79.70	The cor. of secs. 2, 3, 10, and 11
	Land, rolling, Soil, sandy and light gravel. Timber, none.
	S. 89° 56' W., bet. secs. 3 and 10
	Over gently rolling desert land covered with shadscale, greasewood, and grama grass.
	Asc. 30 ft. over E. slope.
9.60	Ridge, bears NW. and SE., desc. 40 ft. over W. slope.

Portions of the Subdivision of T. 18 S., R. 25 E.

Chains	
	Over gently rolling desert land covered with shadscale, greasewood, and grama grass.
	Desc. 40 ft. over gentle S. slope.
39.96	Point for the ¼ sec. cor. of secs. 2 and 3
	Set an iron post 30 ins. long, 2½ in diam., 24 ins. in the ground with brass cap mkd.
	T18S R25E ¼ S3 | S2 1960
	No other accessories available.
47.80	Wash, 40 lks. wide, 4 ft. deep, drains SW.
64.00	Same wash, 50 lks. wide, 8 ft. deep, drains from SW to East.
70.50	Wash, 80 lks. wide, 7 ft. deep, drains SE., asc. 20 ft. over NE. slope.
79.10	Short spur, slopes E.; desc. 20 ft. over S. slope.
79.96	Point for the cor. of secs. 2, 3, 10, and 11.
	Set an iron post 30 ins. long, 2½ ins. diam., 20 ins. in the ground and in a collar of stone with brass cap mkd.
	T18S R25E S3 | S2 S10 | S11 1960
	Land, rolling. Soil, sandy loam. Timber, none.

	From the cor. of secs. 1, 6, 7, and 12 on the East bdy. of the Tp., monumented with an iron post 3 ins. in diam. set, mkd., and witnessed as described in the field notes of the 1915 survey of the E. bdy. of T. 18 S., R. 25 E.
	West, bet. secs. 1 and 12.
	Over rolling land covered with shadscale, greasewood, and grama grass.
	Asc. 70 ft. over Steep E. slope.
11.20	Saddle on spur projecting SE.; desc. 80 ft. over steep SW. slope
16.80	Base of spur, bears N. and SE., slope changes to gentle West slope; desc. 10 ft.
40.03	Point for the ¼ sec. cor. of secs. 1 and 12.
	Set an iron post 30 ins. long, 2½ ins. diam., 22 ins. in the ground with brass cap mkd.
	T18S R25E ¼ S1 | S12 1960
	No other accessories available.

Portion of the Subdivision of T. 18 S., R. 25 E.

Chains	
	Over nearly level land covered with dry greasewood and grama grass.
	Desc. 20 ft. over gentle SE. slope.
31.30	Wash, 20 lks. wide, 3 ft. deep, drains SE., asc. 20 ft. over N. slope.
40.00	Point for the ¼ sec. cor. of secs. 16 and 17.
	Set an iron post, 30 ins. long, 2½ ins. in diam., 20 ins. in the ground with brass cap mkd.
	T18SR25E ¼ S17 | S16 1960
	No other accessories available.
	Asc. 30 ft. over SE. slope.
55.10	Wash, 30 lks. wide, 2 ft. deep, drains SE.; asc. 10 ft. over rolling land.
63.20	Road, graded, bears NW. and SE.
80.00	Point for the cor. of secs. 16, 17, 8, and 9.
	Set an iron post, 30 ins. long, 2½ ins. in diam., 20 ins. in the ground, with brass cap mkd.
	T18SR25E S8 | S9 S17 | S16 1960
	No other accessories available.
	From this cor. the U. S. C. & G. S. triangulation station "Bitter", Lat. 39° 15' 56.863" N., Long. 109° 12' 20.035" W., bears N. 62° 38' 18.25" W., 205.35 chs. dist.
	Land, rolling. Soil, sandy clay. No timber.

	From the cor. of secs. 9, 10, 15, and 16.
	N. 89° 58' W., bet. secs. 9 and 16.
	Over gently rolling land, covered with grama grass and dry greasewood.
	Asc. 80 ft. over E. slope.
14.80	Top of asc. bears E. and W.; desc. 30 ft. over W. slope.
16.70	Wash, 10 lks. wide, 1 ft. deep, drains SE.; asc. 30 ft. over W. slope.
26.60	Road, unimproved. bears N. and SE., desc. 10 ft. over W. slope.
30.60	Wash, 10 lks. wide, 1 ft. deep, drains SW.; asc. 10 ft. over gentle E. slope.
40.00	Point for the ¼ sec. cor. of secs. 9 and 16.
	Set an iron post, 30 ins. long, 2½ ins. in diam. 20 ins. in the ground, with brass cap mkd.

Portion of the Subdivision of T. 18 S., R. 25 E.

Chains	
	T18SR25E ¼ S9 S16 1960
	No other accessories available.
	Desc. 70 ft. over W. slope.
66.00	Wash, 1.00 ch. wide, 15 ft. deep, drains S.
68.40	Wash, 70 lks. wide, 12 ft. deep, drains SE.
74.00	Wash, 1.00 ch. wide, 12 ft. deep, drains SE.
80.00	The cor. of secs. 8, 9, 16, and 17.
	Land, rolling. Soil, sandy, clay. No timber.
	From the cor. of secs. 32 and 33 on the S. bdy. of the Tp., monume with a 2½ in. iron post, set, mkd., and witnessed as described in 1960 field notes of the concurrent resurvey of the N. bdy. of T. 1 S., R. 25 E.
	N. 0° 03' W., bet. secs. 32 and 33.
	Over rolling land covered with shadscale, grama grass, and grease wood.
18.10	Wash, 40 lks. wide, 3 ft. deep, drains SW., asc. 50 ft. over S. sl
24.50	Top of asc. bears E. and W.; desc. 20 ft. over N. slope.
31.10	Bottom of descent; asc. 20 ft. over S. slope.
36.00	Spur, projects W., desc. 20 ft. over N. slope.
40.00	Point for the ¼ sec. cor. of secs. 32 and 33.
	Set an iron post, 30 ;ins. long, 2½ ins. in diam., 20 ins. in the ground and in a collar of stone, brass cap mkd.
	T18SR25E ¼ S32 | S33 1960
	Asc. 20 ft. over S. slope.
47.10	Wash, 30 lks. wide, 8 ft. deep, drains NW.; asc. 30 ft. over S. sl
54.70	Wash, 10 lks. wide, 2 ft. deep, drains SW.
55.80	Telephone line, bears S. 42° 59' W. and N. 42° 59' E.
63.50	Spur, projects W.; desc. 20 ft. over N. slope
67.00	Wash, 10 lks. wide, 2 ft. deep, drains W.; asc. 10 ft. over S. s
75.20	Spur, projects W., desc. 10 ft. over N. slope.
80.00	Point for the cor. of secs. 28, 29, 32, and 33.
	Set an iron post, 30 ins. long, 2½ ins. in diam. 20 ins. in the ground and in a collar of stone, with brass cap mkd.

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Chains	
	T18SR25E S29 | S28 S32 | S33 1960
	Land, rolling W. slope of ridge. Soil, sandy clay. No timber.
	From the cor. of secs. 31 and 32, on the S. bdy. of the Tp. monumented with a 2½ in. iron post, set, mkd., and witnessed as described in the field notes of the concurrent resurvey of the N. bdy. of T. 19 S., R. 25 E.
	N. 0° 03' W., bet. secs. 31 and 32.
	Over gently sloping land, covered with shadscale.
	Ass. 40 ft. over gentle SW. slope.
40.00	Point for the ¼ sec. cor. of secs. 31 and 32.
	Set an iron post, 30 ins. long, 2½ ins. in diam., 20 ins. in the ground with brass cap mkd.
	T18SR25E ¼ S32 | S33 1960
	No other accessories available.
55.80	Top of ascent, desc. 10 ft. over gentle N. slope.
69.50	Road, unimproved, bears NE. and SW.
80.00	Point for the cor. of secs. 29, 30, 31, and 32.
	Set an iron post, 30 ins. long, 2½ ins. in diam., 20 ins. in the ground, with brass cap mkd.
	T18SR25E S30 | S29 S31 | S32 1960
	No other accessories available.
	Land, rolling. Soil, sandy clay. No timber.
	From the cor. of secs. 28, 29, 32, and 33.
	S 89° 59' W. bet. secs. 29 and 32.
	Over gently rolling land covered with shadscale, grama grass and greasewood.
	Desc. 110 ft. over gentle W. slope of ridge.
40.05	Point for the ¼ sec. cor. of secs. 29 and 32.
	Set an iron post, 30 ins. long, 2½ ins. in diam., 20 ins. in the ground, with brass cap mkd.

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Portion of the Subdivision of T. 18 S., R. 25 E.

Chains	T18S R25E ½ S29 S32
	No other accessories available.
42.00	End of desc. bears N. and S.; thence over nearly level land.
45.10	Wash, 30 lks. wide, 4 ft. deep, drains S.
55.20	Wash, 20 lks. wide, 3 ft. deep, drains S.
75.00	Road, ~~unimproved~~, bears NE. and SW.
80.10	The cor. of secs. 29, 30, 31, and 32.
	Land, rolling. Soil, sandy clay. No timber.

GENERAL DESCRIPTION

T. 18 S., R. 25 E., is located on U. S. Highway 6 and 50 about miles west of the Utah-Colorado State line, and is rolling desert covered with shadscale, grama grass, and greasewood, with widely scattered pinion and juniper in the center of the township.

Highway 6 and 50 bisects the township in the southeast corner, secs. 25, 26, and 35.

The township is drained by numerous small washes draining into W. Bitter Creek, and drains the area in a southeasterly direction

Form 4-680
(September 1969)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FIELD ASSISTANTS

NAMES	CAPACITY
Gary T. Oviatt	Chainman, notekeeper
Douglas G. Haycock	Chainman
David Hickman	Flagman
Rex J. Edwards	Cornerman
Alburn D. Griffin	Crew Chief

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CERTIFICATE OF CADASTRAL SURVEYOR

I, George D. Voorhees, HEREBY CERTIFY upon honor that, pursuance of special instructions bearing date of the 15th day of September, 1960 I supervised the dependent resurvey of north of T. 19 S., R. 25 E., and survey of a portion of the subdivisional lines of T. 18 S., R. 25 E.

Salt Lake Meridian, in the State of Utah, which supervision represented in the foregoing field notes as having been executed under my direction, and said survey has been made in strict conformity with said instructions, the Manual of Instructions for Survey of the Public Lands of the United States, and in the specific manner described in the field notes.

Salt Lake City, Utah
Date

April 24, 1961
Date

(Cadastral Surveyor)
George D. Voorhees
(Cadastral Surveyor)

CERTIFICATE OF APPROVAL

BUREAU OF LAND MANAGEMENT,

Washington, D. C., JUL [illegible], 19

The foregoing field notes of the dependent resurvey of the north of T. 19 S., R. 25 E., and a portion of the subdivisional lines of T. 18 S. R. 25 E., Salt Lake Meridian, Utah

executed by Albura D. Griffin, Cadastral Surveyor, under the supervision of George D. Voorhees, Cadastral Surveyor

having been duly examined and found correct, are hereby approved.

(Cadastral Engineering Staff Officer)
Chief, Div[illegible]

CERTIFICATE OF TRANSCRIPT

I certify that the foregoing transcript of the field notes of the [illegible], is a true copy of the original field

(Date)

(Cadastral Engineering Staff Officer)

GPO 881060

ORIGINAL

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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ORIGINAL

FIELD NOTES

OF THE

SURVEY OF A PORTION OF THE

SIXTH STANDARD PARALLEL SOUTH

ALONG THE SOUTH BOUNDARY OF T. 30 S., R. 18 E.

AND

SURVEY OF A PORTION OF THE

WEST BOUNDARY OF T. 30½ S., R. 18 E.

Of the Salt Lake *Meridian,*

the State of Utah

EXECUTED BY

Wayne Sibley, Cadastral Surveyor

Under the Supervision of George D. Voorhees, Cadastral Surveyor

nder special instructions dated October 12 *, 1954 , which provided*

or the surveys included under Group No. 403 *, approved* November 22, 1954

nd assignment instructions dated April 14 *, 1960*

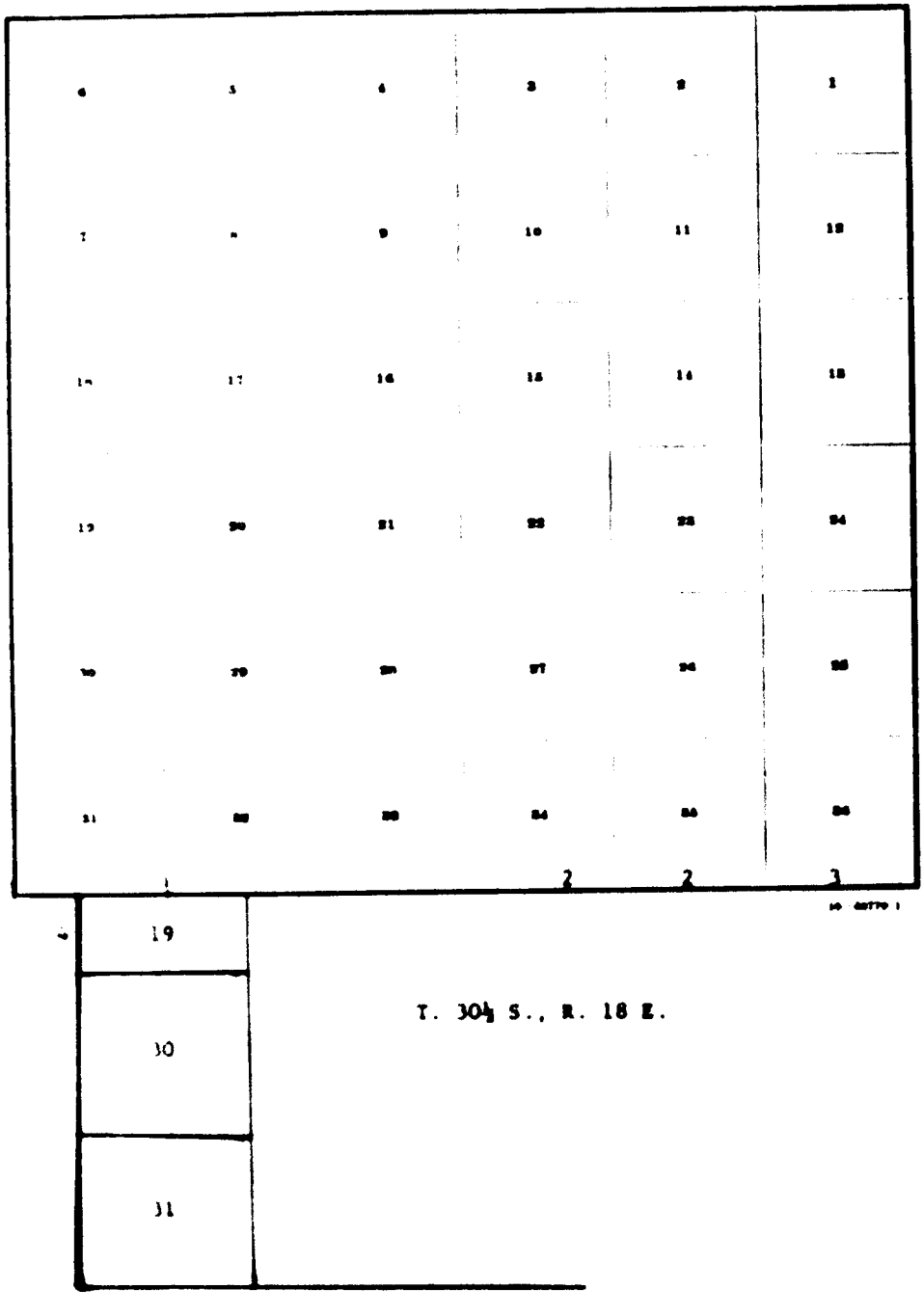
Survey commenced May 9 *, 1960*

Survey completed May 11 *, 1960*

U. S. GOVERNMENT PRINTING OFFICE 16—86770-1

INDEX DIAGRAM

Township Tps. 30 & 30½ S., *Range* R. 18 E.



Township 30½ South, Range 18 East

Chains

The west 3½ miles of the Sixth Standard Parallel South along the south boundary of T. 30 S., R. 18 E. were surveyed by C. F. Moore in 1934. The south 3 miles of the west boundary of T. 30 S., R. 19 E. were surveyed by C. F. Moore and R. C. Yundt in 1929. In T. 30½ S., R. 18 E., the south 2 miles of the west boundary were surveyed by D. A. Cannon in 1957; a portion of the east boundary, the south boundary and a portion of the subdivisional lines were surveyed by Fred R. Chappell in 1957.

The present work consists of the survey of the east 2½ miles of the Sixth Standard Parallel South along the south boundary of T. 30 S., R. 18 E. and the survey of a portion of the west boundary of T. 30½ S., R. 18 E. The present work was made necessary by the tardy discovery of errors in the 1957 field work in the ties at the northwest and northeast corners of T. 30½ S., R. 18 E. resulting in the necessity of omission of this portion of the work from the 1957 survey returns of said township. In the present work monuments of the 1957 survey work were moved to their correct positions wherever found in error, the final result only appearing in this field note record.

The survey was executed with W. & L. E. Gurley solar transits Nos. 491037 and 570621, constructed in accordance with the standard instrumental specifications of the Bureau of Land Management. The instruments were in good condition prior to the beginning of the field work and were maintained in proper adjustment throughout the course of the field work.

Corners of east-west lines were established on true latitudinal curves. Lines connecting previously established corners were run by random and true method, but for simplification of the record the random line data are omitted from the final record.

Measurements herein shown were made with narrow steel tapes, 8 chains in length, graduated every link for the first 100 links and thereafter at intervals of 10 links. The tapes were tested by comparison with a one chain standard steel tape and found to be correct. Measurements were made on the slope and the vertical angle of each interval ascertained by use of a clinometer in good adjustment; horizontal equivalents alone are entered in the field note record. All lines of this survey were run by direct method where the lines were accessible; lines inaccessible were run by traverse or triangulation methods. Distances noted to topographic items on lines run by traverse or triangulation are approximtely as scaled from U. S. G. S. quadrangle sheet "Carlisle 3 NW Utah." The details of traverses and triangulations have been thoroughly checked and verified, but in order to simplify the record the diagrams and reductions are omitted from the field note record.

The direction of lines of this survey were determined by reference to true meridians established on line by hour angle observations on Polaris or altitude observations on the Sun. The survey lines were carried forward by sustained angulation, being supplemented by numerous other altitude observations on the sun taken throughout the progress of the survey.

The geographic position of the southeast corner of T. 30½ S., R. 18 E. is 38° 07' 09.6" N. and longitude 109° 52' 54.6" W., as shown on the plat of survey accepted October 13, 1958.

The magnetic declination over the area surveyed was found to average 15° 30' E.

Survey of the Sixth Standard Parallel South
Along a Portion of the S. Bdy. T. 30 S. R. 18 E.

Chains	
	Beginning at the witness point which was established in 1934 at a point 41.37 chs. East of the standard cor. of secs. 33 and 34, T. 30 S., R. 18 E. and which is monumented with an iron post, 2 ins. diam. set, mkd. and witnessed as described in the official record.
	East, along the S. bdy. of sec. 34.
	Over rough and broken land on W. rim of Cataract Canyon on the Colorado River; by triangulation, desc. about 960 ft. over W. wall of canyon.
	NOTE: This portion of the Colorado River Canyon is inaccessible, hence meander cors. were not feasible.
15.70	The approximate position of the right bank of the Colorado River, N. 30° W. and S. 10° E.; thence across river, course S. 10° E.
19.85	The approximate position of the left bank of the Colorado River bea N. and S. 10° E.; asc. about 480 ft. over E. wall of canyon to poin for sec. cor.
38.63	True point for the standard cor. of secs. 34 and 35 falls on face o canyon wall. Cor. not monumented.
	Land, steep walls of Cataract Canyon. Sand, shallow sand and exposed sandstone. Timber, none.
	East, along S. bdy. of sec. 35, T. 30 S., R. 18 E.
	Cont. by triangulation, over precipitious E. wall of Cataract Can, asc. about 680 ft.
11.50	E. rim of Cataract Canyon, bears N. 15° E. and S.; end of triangulation.
11.70	Point selected for the witness point on S. bdy. of sec. 35.
	Set an iron post, 30 ins. long, 2½ ins. diam., 6 ins. in the ground to bedrock, in a mound of stone, 4 ft. base to top, with brass cap mkd. T30S R18E W P S35 1960
	Asc. 30 ft. over gradual W. slope.
24.20	Top of ascent, bears N. and S.; desc. 70 ft. over gradual E. slope.
40.00	Point for the standard ¼ sec. cor. of sec. 35.
	Set an iron post, 30 ins. long, 2½ ins. diam., 22 ins. in the groun in a collar of stone, with brass cap mkd. T30S R18E S C ¼ S35 1960
	Cont. over gentle E. slope; desc. 10 ft.
54.00	W. rim of side canyon, bears N. 15° E. and S. 15° W.; beginning of triangulation; desc. about 200 ft. abruptly over canyon wall.

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Survey of a Portion of the Sixth Standard Parallel South, Along the South Boundary of T. 30 S., R. 18 E.

Chains	
60.50	Small wash in deep side canyon, drains N. 20° E.; asc. about 400 ft. over E. wall of canyon.
66.00	E. rim of canyon, bears N. 20° E. and S. 20° W.; asc. about 10 ft.
75.00	Top of ascent, bears N. and S.; desc. about 10 ft. over E. slope.
79.50	W. rim of small canyon, near head, bears N. and S.; desc. abruptly about 40 ft. over canyon wall to point for sec. cor.
80.00	True point for the standard cor. of secs. 35 and 36 falls on face of canyon wall where cor. monument cannot be established.
	Land, rolling and broken. Soil, sand and exposed sandstone. Timber, scattered pinon and juniper.
	East, along S. bdy. of sec. 36, T. 30 S., R. 18 E.
	Desc. about 80 ft. over W. wall of small box canyon.
2.50	Small wash in bottom of canyon, drains NE.; asc. about 160 ft. over E. wall of canyon.
4.18	E. rim of canyon, bears NE. and SW.
	Point selected for the witness standard cor. of secs. 35 and 36.
	Set an iron post, 30 ins. long, 2½ ins. diam., over a cross (X) on sandstone surface, in a mound of stone, 4 ft. base to top, with brass cap mkd.
	T30S R18E S C WC S35 | S36 1960
	Thence over series of spurs, ridges and sandstone spires projecting to the NE.
33.83	Point selected for the witness standard ¼ sec. cor. of sec. 36.
	Set an iron post, 30 ins. long, 2½ ins. diam., over a cross (X) on sandstone surface, in a mound of stone, 3½ ft. base to top, with brass cap mkd.
	T30S R18E WSC ¼ S36 1960
	Monument located on smooth sandstone knob.
	Cont. over broken NE. slope; desc. about 80 ft. by triangulation.
38.00	W. rim of Red Lake Canyon, bears irregularly N. and SE.; desc. about 40 ft. over ledgy NE. slope.

Survey of Portion of the Sixth Standard Parallel South
the South Boundary of T. 30 S., R. 18 E.

Chains	
40.00	True point for the standard ¼ sec. cor. of sec. 36 falls on face of canyon wall where cor. monument cannot be established. Cont. over W. wall of canyon; desc. about 360 ft.
65.62	Intersect the W. bdy. of sec. 30, T. 30 S., R. 19 E., at point for closing cor. of Tps. 30 and 30½ S., R. 18 E.

Set an iron post, 30 ins. long, 2½ ins. diam., 22 ins. in the ground in a mound of stone, 2½ ft. base to top, with brass cap mkd.

T30S
R18E | R19E
CC S36 | S30
S24
T30½S

1960

The original witness cor. of secs. 25, 30, 31 and 36, Tps. 30 S., Rs. 18 and 19 E., which is monumented with an iron post, 2 ins. set, mkd. and witnessed as described in the official record, bears South 63.45 chs. dist. This cor. will now function for secs. 30 31, T. 30 S., R. 19 E. only.

The true point for said cor. of secs. 25, 30, 31 and 36 bears South 57.70 chs. dist.

The point for the original ¼ sec. cor. of secs. 25 and 30 bears Sou 17.70 chs. dist. No remaining evidence of the cor. monument could be found and no physical evidence on the ground that it had ever established.

The point for the original cor. of secs. 19, 24, 25 and 30 bears North 22.30 chs. dist. No remaining evidence of the cor. monument could be found and no physical evidence on the ground that it had ever been established.

Land, rough and broken.
Soil, sand and exposed sandstone.
Timber, scattered pinon and juniper.

Survey of Portion of the West Boundary of T. 30½ S., R. 18 E.

Beginning at the cor. of secs. 19, 24, 25 and 30, on the W. bdy. of the Tp., monumented by an iron post, 2½ ins. diam., firmly set, mkd and witnessed as described in the field notes of the survey of T. 30½ S., R. 17 E.

North, bet. secs. 19 and 24.

Over rolling land, through scattered timber; desc. 40 ft. along gen W. slope.

19.53	Point selected for the witness closing cor. of T. 30½ S., Rs. 17 18 E.

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Survey of a Portion of the West Boundary of T. 30½ S., R. 18 E.

Chains	
	Set an iron post, 30 ins. long, 2½ ins. diam., 20 ins. in the ground, in a mound of stone, 2 ft. base to top, with brass cap mkd. W C T30S R18E S31 S24 | S19 C C R17E R18E T30½S 1960
19.80	Wash, 1.00 ch. wide, 4 ft. deep, drains S. 30° W.
20.21	Intersect the Sixth Standard Parallel South on the S. bdy. of sec.31, T. 30 S., R. 18 E. at the true point for the closing cor. of Tp. 30½ S., Rs. 17 and 18 E. This point falls on sloping ledge where cor. monument cannot be established.
	From which
	The true point for the standard cor. of Tps. 30 S., Rs. 17 and 18 E., bears West 15.87 chs. dist.
	The witness standard cor. of Tps. 30 S., Rs. 17 and 18 E. bears West 12.97 chs. dist. and is monumented with an iron post, 3 ins. diam., set, mkd. and witnessed as described in the official record.
	Land, gently rolling. Soil, sandy. Timber, scattered pinon and juniper.

General Description

See field notes of the surveys executed in T. 30 S., R. 18 E. in 1957, which were accepted October 13, 1958.

4-680
(Feb., 1950)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FIELD ASSISTANTS

NAMES	CAPACITY
Wallace Ott	Transitman
Wayne Sibley	Notekeeper
Parley Pratt	Chainman
Wayne Fisher	Flagman

16—53565-2

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CERTIFICATE OF CADASTRAL ENGINEER

I, George D. Voorhees, HEREBY CERTIFY upon honor that, in pursuance of special instructions bearing date of the 12th day of October, I have surveyed the south boundary of T. 30 S. R. 18 E. and survey of a portion of the west boundary of T. 30½ S., R. 18 E.

of the Salt Lake Meridian, in the State of Utah, which is represented in the foregoing field notes as having been executed by me or under my direction; and said 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 field notes.

October 16, 1961

Salt Lake City, Utah

George D. Voorhees
Cadastral Surveyor

CERTIFICATE OF APPROVAL

BUREAU OF LAND MANAGEMENT,

Washington, D. C., SEP 14 1962, *19*

The foregoing field notes of the survey of a portion of the Sixth Standard Parallel South along the south boundary of T. 30 S., R. 18 E. and survey of a portion of the west boundary of T. 30½ S., R. 18 E. Salt Lake Meridian, Utah

executed by George D. Voorhees, Cadastral Surveyor
having been critically examined and found correct, are hereby approved.

Chief, Division of Engineering

I CERTIFY that the foregoing copy of the field notes of the above-described surveys in T. 30 & 30½ S., R.18E., SLM, Utah, is a true copy of the original field notes.

U. S. GOVERNMENT PRINTING OFFICE 16—53565-8

ORIGINAL

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

ORIGINAL

FIELD NOTES

OF THE

SURVEY

OF THE WEST BOUNDARY

AND THE DEPENDENT RESURVEY AND SURVEY

OF A PORTION OF THE SUBDIVISION

OF

TOWNSHIP 32 SOUTH, RANGE 5 WEST

Of the Salt Lake *Meridian,*

n the State of Utah

EXECUTED BY

Woodrow H. Sylvester, Cadastral Surveyor

Under special instructions dated September 21, *19* 59, *which provided*

or the surveys included under Group No. 432, *approved* October 1, 1959

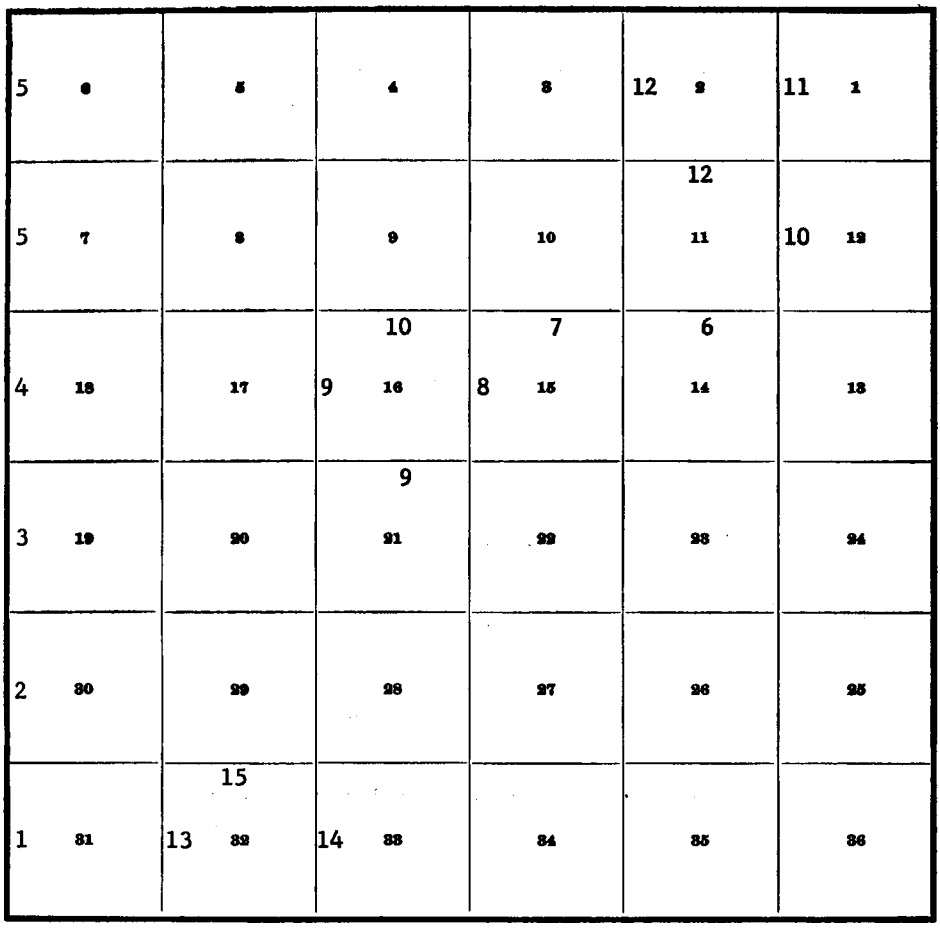
nd assignment instructions dated August 4, *19* 60

Survey commenced August 5, *19* 60

Survey completed September 3, *19* 60

INDEX DIAGRAM

Township 32 South, *Range* 5 West



GPO 866119

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Township 32 South, Range 5 West

Chains

The south five miles of the east boundary (Panguitch Guide Meridian) were surveyed by J. C. Burrill in 1874. The north boundary of the township and the north mile of the east boundary (Panguitch Meridian) were surveyed by J. R. Stewart and Q. Stewart in 1911. The west two miles of the south boundary were surveyed by R. Gentry in 1920. The east four miles of the south boundary and a portion of the subdivisional lines were surveyed by T. C. Bailey and J. C. Burrill in 1874.

The following field notes are those of a survey of the west boundary, an original survey and dependent resurvey of a portion of the subdivisional lines of T. 32 S., R. 5 W.

The survey was requested by Management of Lands and Resources, Bureau of Land Management.

The survey was executed with W. & L. E. Gurley transits, serial numbers 541409 and 570628, both being the property of the Bureau of Land Management, and constructed in accordance with their standard specifications. The horizontal plates have two double opposite verniers graduated to 30" of arc, and the vertical circles have one double vernier graduated to single minutes. The instruments were in good adjustment and prior to the beginning of the field work they were examined and the errors eliminated. They were maintained in good adjustment during the survey.

The directions of all lines were determined by stellar observations and by direct solar method, and the measurements were made with Lufkin steel tapes, 8 chains in length, graduated to one tenth link for the first 10 links, and each link for the next 90 links, and thereafter at intervals of 10 links. The tapes were tested by comparison with a one-chain standard tape and found correct. All measurements made on the slope had the vertical angle of each interval ascertained by a clinometer in good adjustment; the horizontal equivalents only are entered in the field note record.

The geographic position of the southeast corner of sec. 32, this Tp. is latitude 37° 58' 40" N. and longitude 112° 25' 49" W., as determined through section lines and direct tie to U.S.C. & G.S. triangulation station "Bear," located S. 69° 24' W., 29.96 chs. from the W. ¼ cor. of section 24, T. 32 S., R. 5½ W.

The mean magnetic declination is 16° 00' E.

Survey of the West Boundary of T. 32 S., R. 5 W.

The cor. of secs. 1 and 6, T. 33 S., Rs. 5 and 6 W. on the N. bdy., mkd. by an iron post, set, mkd. and witnessed as described in the official record. Remarked cor. to function for secs. 31 and 36, T. 32 S., Rs. 5 and 5½ W. on N. portion, and secs. 1 and 6, T. 33 S., Rs. 5 and 6 W. for S. portion, as shown below.

T32S

R5½W	R5W
S36	S31
S 1	S 6
R6W	R5W

1920

1960

W. . . T. 32 S., R. 5 W.

Chains	
	North, bet. secs. 31 and 36.
	Desc. 50 ft. over NE. slope, through thick pinon and cedar.
5.20	Dry wash, 3 ft. deep, 20 lks. wide, drains S. 70° E.; thence asc. 100 ft. over SW. slope.
17.36	Dry wash, 2 ft. deep, 15 lks. wide, drains S. 18° W.; cont. steep ascent over NW. slope.
29.83	Top of steep ascent, ridge bears NE. and SW.; asc. gradual N. slope.
40.00	Point for the ¼ sec. cor. of secs. 31 and 36.
	Set an iron post, 30 ins. long, 2½ ins. diam., 18 ins. in the ground and in a mound of stone to top, with brass cap mkd.

T32S
R5½W R5W
¼
S36 | S31
1960

from which

A pinon, 11 ins. diam., bears N. 60° W., 42 lks. dist., mkd. ¼ S36 BT.

A pinon, 12 ins. diam., bears N. 24° E., 24 lks. dist., mkd. S31 BT.

	Cont. ascent over N. slope.
52.01	Top of ascent; desc. 240 ft. over steep NE. slope.
80.00	Point for the cor. of secs. 25, 30, 31 and 36.
	Set an iron post, 30 ins. long, 2½ ins. diam., 4 ins. in the ground to bedrock and in a mound of stone to top, with brass cap mkd.

T32S
R5½W R5W
S25 | S30
S36 | S31
1960

Land, steep rolling hills.
Soil, sandy loam and gravel.
Vegetation, thick juniper and pinon.

	North, bet. secs. 25 and 30.
	Desc. 30 ft. over steep N. slope.
2.00	Dry wash, 3 ft. deep, 15 lks. wide, drains S. 70° W.; asc. 70 ft. gradual S. slope.
16.00	Asc. 300 ft. over rough S. slope.
30.00	Top of steep ascent; thence over gradual S. slope.
40.00	Point for the ¼ sec. cor. of secs. 25 and 30.

Survey, W. Bdy., T. 32 S., R. 5 W.

Chains	
	Set an iron post, 30 ins. long, 2½ ins. diam., 24 ins. in the ground, with brass cap mkd.
	T32S R5½W R5W ¼ S25 | S30 1960
56.30	South rim of canyon, bears E. and W.; desc. 300 ft. over steep N. slope.
69.10	Dry wash, 3 ft. deep, 20 lks. wide, drains S. 80° E.; thence over canyon bottom.
80.00	Point for the cor. of secs. 19, 24, 25 and 30.
	T32S R5½W R5W S24 | S19 S25 | S30 1960
	Land, steep hills. Soil, ledges, gravel and loam. Vegetation, thick pinon, juniper and sparse sagebrush, mahogany and fir.
	North, bet. secs. 19 and 24.
	Over gradual S. slope, through thick juniper and pinon.
4.22	Power line, bears N. 58° W. and S. 58° E.
4.37	Bladed access road, bears N. 58° W. and S. 58° E.
11.05	Dry wash, 2 ft. deep, 12 lks. wide, drains S. 85° E.
18.50	Dry wash, 3 ft. deep, 15 lks. wide, drains S. 55° E.
32.10	Begin steep ascent over S. slope.
40.00	Point for the ¼ sec. cor. of secs. 19 and 24.
	Set an iron post, 30 ins. long, 2½ ins. diam., 7 ins. in the ground to bedrock and in a mound of stone to top, with brass cap mkd.
	T32S ¼ S24 | S19 1960
	Asc. steep S. slope.
61.26	South rim of canyon bears E. and W.; thence desc. steep N. slope.
63.00	North rim of canyon bears E. and W.; thence over hill top.
80.00	Point for the cor. of secs. 13, 18, 19 and 24.
	Set an iron post, 30 ins. long, 2½ ins. diam., 4 ins. in the ground to bedrock and in a mound of stone to top, with brass cap mkd.

Survey, W. Bdy., T. 32 S., R. 5 W.

Chains	
	T32S R5½W R5W S13 | S18 S24 | S19 1960
	Land, steep, rolling hills. Soil, ledge gravel and loam. Vegetation, thick juniper, pinon; sparse mahogany and sagebrush.
	North, bet. secs. 13 and 18.
	Desc. steep NE. slope.
10.50	Dry wash, 5 ft. deep, 30 lks. wide, drains E.; thence asc. steep S. slope.
40.00	Point for ¼ sec. cor. of secs. 13 and 18.
	Set an iron post, 30 ins. long, 2½ ins. diam., 20 ins. in the ground and in a mound of stone to top, with brass cap mkd. T32S R5½W R5W ¼ S13 | S18 1960
	from which,
	A juniper, 14 ins. diam., bears N. 40° W., 24 lks. dist., mkd. ¼ S13 BT.
	Cont. steep ascent.
44.60	Top of ridge bears E. and W.; thence across hill top.
47.00	Desc. N. slope.
55.00	Bottom of descent; thence asc. S. slope.
70.00	Top of ascent; thence desc. N. slope.
80.00	Point for the cor. of secs. 7, 12, 13 and 18.
	Set an iron post, 30 ins. long, 2½ ins. diam., 10 ins. in the ground to bedrock and in a mound of stone to top, with brass cap mkd. T32S R5½W R5W S12 | S 7 S13 | S18 1960
	Land, steep, rolling hills. Soil, lava outcropping, thin layer of sandy loam. Vegetation, juniper, pinon, mahogany and sagebrush.

Chains	
	North, bet. secs. 7 and 12.
	Cont. descent.
2.85	Over low rolling hills.
20.00	Desc. NW. slope.
35.80	Dry wash, 3 ft. deep, 12 lks. wide, drains N. 35° E.
40.00	Point for ¼ sec. cor. of secs. 7 and 12.
	Set an iron post, 30 ins. long, 2½ ins. diam., 12 ins. in the ground to bedrock and in a mound of stone to top, with brass cap mkd.
	T32S R5½W R5W ¼ S12 | S 7 1960
69.47	Bladed road bears E. and W.
80.00	Point for cor. of secs. 1, 6, 7 and 12.
	Set an iron post, 30 ins. long, 2½ ins. diam., 14 ins. in the ground to bedrock and in a mound of stone to top, with brass cap mkd.
	T32S R5½W R5W S 1 | S 6 S12 | S 7 1960
	Land, rolling hills. Soil, very rocky. Vegetation, sagebrush.
	North, bet. secs. 1 and 6.
	Over rolling hills, through sagebrush.
23.00	Asc. SE. slope.
40.00	Point for ¼ sec. cor. of secs. 1 and 6.
	Set an iron post, 30 ins. long, 2½ ins. diam., 12 ins. in the ground to bedrock and in a mound of stone to top, with brass cap mkd.
	R5½W R5W ¼ S 1 | S 6 1960
51.55	Dry wash, 2 ft. deep, 10 lks. wide, drains S. 70° E.
79.00	Top of ascent; thence over hill top.
87.02	Intersect N. bdy. of the Tp.
	Point for the closing cor. of T. 32 S., Rs. 5 and 5½ W.

T. 32 S. R. 5 W.

Chains	
	Set an iron post, 30 ins. long, 2½ ins. diam., 20 ins. in the ground and in a mound of stone to top, with brass cap mkd. S 1 | S 6 R5½W R5W T32S GC 1960 From point of intersection, the ¼ sec. cor. of secs. 6 and 31, bears E. 39.05 chs., and is a steel post mkd. and witnessed as described the official record.
	Land, rolling hills. Soil, rocks and gravel. Vegetation, sagebrush and bunch grass.
	Dependent Resurvey of a Portion of the Subdivision, T. 32 S., R. 5 W.
	Reestablishment of the survey executed by T. C. Bailey and J. G. Burrill, Deputy Surveyors, 1874.
	The cor. of secs. 11, 12, 13 and 14, is determined by a stone, 10x12x14 ins., firmly set, with 1 groove on E. and 4 grooves on S. face.
	At the cor. point
	Set an iron post, 30 ins. long, 2½ ins. diam., 5 ins. in the ground to bedrock and in a mound of stone to top, with brass cap mkd. T32S R5W S11 | S12 S14 | S13 1960
	Bury original cor. stone alongside iron post.
	from which
	A pinon, 10 ins. diam., bears N. 10° E., 32 lks. dist., mkd. S12 BT.
	A pinon, 10 ins. diam., bears S. 20° W., 30 lks. dist., mkd. S14 BT.
	N. 89° 30' W., bet. secs. 11 and 14.
	Desc. steep W. slope, through scattered sagebrush and pinon.
1.20	Spring area in bottom of wash, live water drains S. 70° E.; thence asc. E. slope.
26.90	Top of hill, bears N. and S.; thence desc. steep W. slope.
35.85	Bottom of hill; thence over narrow canyon bottom
39.80	Small creek, drains S. 50° E., 2 chs.; thence S. 5° E.

Dependent Resurvey, Portion of Subdivision, T. 32 S., R. 5 W.

Chains	
40.16	Point for the ¼ sec. cor. of secs. 11 and 14, at proportionate dist., falls in creek bed where cor. would be destroyed; there is no remaining evidence of the original cor.
40.86	Point selected for witness cor. of secs. 11 and 14.
	Set an iron post, 30 ins. long, 2½ ins. diam., 24 ins. in the ground, with brass cap mkd.
	T32S R5W ¼ S11/S14 WC 1960
	Asc. NE. slope.
80.32	The cor. of secs. 10, 11, 14 and 15, mkd. by a stone, 6x11x15 ins., firmly set, with 2 grooves on E. face and 4 grooves on S. face.
	At the cor. point
	Set an iron post, 30 ins. long, 2½ ins. diam., 24 ins. in the ground, with brass cap mkd.
	T32S R5W S10 | S11 S15 | S14 1960
	Bury original cor. stone alongside iron post.
	Land, rough, rolling hills. Soil, rocks and gravel. Vegetation, sagebrush, pinon and juniper.
	N. 89° 26' W., bet. secs. 10 and 15.
	Over rolling hills, through sagebrush, pinon and juniper.
19.50	Dry wash, 2 ft. deep, 20 lks. wide, drains S. 45° E.
40.37	Point for ¼ sec. cor. of secs. 10 and 15, at proportionate dist.; there is no remaining evidence of the original cor.
	Set an iron post, 30 ins. long, 2½ ins. diam., 24 ins. in the ground, with brass cap mkd.
	T32S R5W ¼ S10/S15 1960
	Ascent gentle SE. slope.
80.74	The cor. of secs. 9, 10, 15 and 16, mkd. by a stone, 4x8x13 ins., firmly set, with 3 grooves on E. face and 4 grooves on S. face.
	At the cor. point
	Set an iron post, 30 ins. long, 2½ ins. diam., 21 ins. in the ground and in a mound of stone to top, with brass cap mkd.

Portion of

Chains	
	T32S R5W S9 | S10 S16 | S15 1960
	Bury original cor. stone alongside iron post.
	Land, rolling hills. Soil, rocky loam. Vegetation, sagebrush, juniper and pinon.
	The cor. of secs. 15, 16, 21 and 22, mkd. by a stone, 8x10x13 ins., firmly set, with 3 faint grooves on E. and S. faces.
	At the cor. point
	Set an iron post, 30 ins. long, 2½ ins. diam., 12 ins. in the ground to bedrock and in a mound of stone to top, with brass cap mkd.
	T32S R5W S16 | S15 S21 | S22 1960
	Bury original cor. stone alongside iron post.
	N. 0° 14' E., bet. secs. 15 and 16.
	Over rolling hills, through thick sagebrush.
1.20	Dry wash, 2 ft. deep, 12 lks. wide, drains S. 30° E.
19.69	Dirt road, bears N. 30° W. and S. 30° E.
25.32	Dry wash, 2 ft. deep, 15 lks. wide, drains E.
40.16	Point for the ¼ sec. cor. of secs. 15 and 16, at proportionate dist.; there is no remaining evidence of the original cor.
	Set an iron post, 30 ins. long, 2½ ins. diam., 24 ins. in the ground, with brass cap mkd.
	T32S R5W ¼ S16 | S15 1960
55.03	Bottom of small ravine, drains E.
64.93	Dry wash, 2 ft. deep, 10 lks. wide, drains S. 85° E.
80.32	The cor. of secs. 9, 10, 15 and 16.
	Land, rolling hills. Soil, rocky gravel. Vegetation, sagebrush and scattered juniper and pinon.

Chains	Survey of a Portion of the Subdivision of T. 32 S., R. 5 W.
	From the cor. of secs. 15, 16, 21 and 22.
	Over rolling hills, through thick sagebrush and scattered juniper.
	West, bet. secs. 16 and 21.
18.00	Bladed dirt road, bears S. 30° E.
40.00	Point for the ¼ sec. cor. of secs. 16 and 21.
	Set an iron post, 30 ins. long, 2½ ins. diam., 15 ins. in the ground to bedrock and in a mound of stone to top, with brass cap mkd.
	T32S R5W ¼ S16 S21 1960
	from which
	A juniper, 14 ins. diam., bears N. 79° 30' E., 1.60 chs. dist., mkd. ¼ S16 BT.
47.96	Bladed dirt road, bears N. 10° E. and S.
51.04	Main access road, bears N. 80° W. and S. 60° E.; desc. SW. slope into small canyon
70.00	Bottom of small canyon, drains S. 50° E.; asc. NE. slope.
80.00	Point for the cor. of secs. 16, 17, 20 and 21.
	Set an iron post, 30 ins. long, 2½ ins. diam., 22 ins. in the ground and in a mound of stone to top, with brass cap mkd.
	T32S R5W S17 | S16 S20 | S21 1960
	Land, rolling hills. Soil, rocky gravel. Vegetation, thick sagebrush, with scattered juniper and pinon.
	N. 0° 13' E., bet. secs. 16 and 17.
	Desc. steep NE. slope, through thick sagebrush, juniper and pinon.
5.42	Bottom of ravine, drains S. 60° E.; asc. SW. slope.
14.85	Main graveled access road, bears N. 65° W. and S. 65° E.
29.35	Top of hill, thence over rolling hills.
40.00	Point for the ¼ sec. cor. of secs. 16 and 17.

Portion of Subdivision, T. 32 S., R. 5 W.

Chains	
	Set an iron post, 30 ins. long, 2½ ins. diam., 18 ins. in the ground to bedrock and in a mound of stone to top, with brass cap mkd.
	T32S R5W ¼ S17 | S16 1960
51.50	Dry wash, 3 ft. deep, 20 lks. wide, drains E.; asc. gradual slope.
78.22	Barbed-wire fence, bears N. 50° E. and S. 50° W.
80.00	Point for the cor. of secs. 8, 9, 16 and 17.
	Set an iron post, 30 ins. long, 2½ ins. diam., 18 ins. in the ground to bedrock and in a mound of stone to top, with brass cap mkd.
	T32S R5W S 8 | S 9 S17 | S16 1960
	Land, rolling hills. Soil, rocky gravel. Vegetation, thick sagebrush and scattered juniper and pinon.
	From the cor. of secs. 9, 10, 15 and 16.
	S. 89° 44' W., bet. secs. 9 and 16.
	Asc. gradual E. slope, through thick sagebrush.
40.01	Point for the ¼ sec. cor. of secs. 9 and 16.
	Set an iron post, 30 ins. long, 2½ ins. diam., 19 ins. in the ground to bedrock and in a mound of stone to top, with brass cap mkd.
	T32S R5W ¼ S 9 S16 1960
47.68	Dry wash, 2 ft. deep, 12 lks. wide, drains N. 15° E.
52.08	Stock watering pond, bears S. 3.60 chs.
80.02	The cor. of secs. 8, 9, 16 and 17.
	Land, rolling hills. Soil, rocky gravel. Vegetation, thick sagebrush.
	From the cor. of secs. 11, 12, 13 and 14.
	N. 0° 01' W., bet. secs. 11 and 12. Asc. S. slope, through sagebrush, juniper and pinon.
25.00	Low rolling hills.
26.53	Dry wash, 2 ft. deep, 15 lks. wide, drains S. 25° E.
40.00	Point for the ¼ sec. cor. of secs. 11 and 12.

Chains	
	Set an iron post, 30 ins. long, 2½ ins. diam., 24 ins. in the ground, with brass cap mkd. T32S R5W ¼ S11 | S12 1960
42.42	Bladed dirt road, bears N. 75° W. and S. 85° E.; asc. gradual S. slope.
53.81	Top of hill; desc. 250 ft. over steep N. slope.
61.52	Bottom of canyon; spring 1.20 chs. E. in canyon bottom drains E.; asc. 250 ft. over S. slope to sec. cor.
80.00	Point for the cor. of secs. 1, 2, 11 and 12. Set an iron post, 30 ins. long, 2½ ins. diam., 15 ins. in the ground to bedrock and in a mound of stone to top, with brass cap mkd. T32S R5W S 2 | S 1 S11 | S12 1960 Land, steep hills and canyons. Soil, rocky gravel. Vegetation, sagebrush, juniper and pinon.
	N. 0° 04' W., bet. secs. 1 and 2. Asc. N. slope, through sagebrush, juniper and pinon.
5.86	Old road, bears E. and W.
7.76	Dry wash, drains S. 70° E.
40.00	Point for the ¼ sec. cor. of secs. 1 and 2. Set an iron post, 30 ins. long, 2½ ins. diam., 20 ins. in the ground and in a mound of stone to top, with brass cap mkd. T32S R5W ¼ S 2 | S 1 1960
55.03	Desc. steep ledge-covered slope on N. slope.
71.06	Bottom of canyon, drains E.; asc. steep ledge-covered S. slope.
83.88	The cor. of secs. 1, 2, 35 and 36 on the N. bdy. of the T., mkd. by an iron post, firmly set, mkd. and witnessed as described in the official record. Land, hills and rough broken canyons. Soil, rocky gravel. Vegetation, sagebrush, juniper and pinon.

Survey, Portion of Subdivision, T. 32 S., R. 5 W.

Chains	
	From the cor. of secs. 1, 2, 11 and 12.
	West, bet. secs. 2 and 11.
	Asc. E. slope, through thick juniper and pinon.
14.39	Top of ascent; desc. W. slope.
	Bottom of ravine, drains S. 20° E.; asc. W. slope.
31.66	Dry wash, 2 ft. deep, 10 lks. wide, drains S. 12° W.
36.06	Bladed road, bears N. 10° W. and S. 10° E.; over low, rolling hills.
40.00	Point for the ¼ sec. cor. of secs. 2 and 11.
	Set an iron post, 30 ins. long, 2½ ins. diam., 24 ins. in the ground, with brass cap mkd.
	T32S R5W ¼ S 2 S11 1960
	from which
	A pine, 7 ins. diam., bears N. 15° E., 73 lks. dist., mkd. ¼ S2 BT.
	A pine, 6 ins. diam., bears N. 10° W., 137 lks. dist., mkd. ¼ S2 BT.
42.46	Dry wash, 2 ft. deep, 10 lks. wide, drains S. 15° E.
49.98	Dry wash, 3 ft. deep, 15 lks. wide, drains S. 10° W.
53.37	Desc. steep W. slope.
70.16	Bottom of ravine, drains S.; asc. E. slope.
80.00	Point for cor. of secs. 2, 3, 10 and 11.
	Set an iron post, 30 ins. long, 2½ ins. diam., 10 ins. in the ground to bedrock and in a mound of stone to top, with brass cap mkd.
	T32S R5W S 3 | S 2 S10 | S11 1960
	Land, rolling hill with deep ravines. Soil, rocky gravel. Vegetation, sagebrush, juniper and pinon.
	N. 0° 04' W., bet. secs. 2 and 3.
	Asc. steep S. slope, through thick juniper and pinon.
16.29	Top of steep ascent; asc. gradual S. slope.
40.00	Point for the ¼ sec. cor. of secs. 2 and 3.
	Set an iron post, 30 ins. long, 2½ ins. diam., 10 ins. in the ground to bedrock and in a mound of stone to top, with brass cap mkd.

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Survey, Portion of Subdivision, T. 32 S., R. 5 W.

Chains	
	T32S R5W ¼ S 3 | S 2 1960
40.94	Desc. N. slope.
58.34	Bladed access road, bears E. and W.; over nearly level land.
70.05	Desc. steep N. slope.
80.85	Dry wash in bottom of small canyon, drains S. 70° E.; asc. steep S. slope.
83.75	The cor. of secs. 2, 3, 34 and 35 on the N. bdy. of the Tp., mkd. by an iron post, mkd. and witnessed as described in the official record. Land, fairly steep hills. Soil, rocky gravel. Vegetation, sagebrush, juniper and pinon.
	From the cor. of secs. 31 and 32 on the S. bdy. of the township, mkd. by an iron post, set, mkd. and witnessed as described in the official record.
	N. 0° 03' W., bet. secs. 31 and 32.
	Asc. S. slope, through sagebrush, juniper and pinon.
7.48	Old dirt road, bears NW. and SE.
10.00	Dry wash, 3 ft., 20 lks. wide, drains S. 40° E.
31.00	Top of steep ascent.
36.00	Dry wash, 3 ft. deep, 15 lks. wide, drains S. 70° E.
40.00	Point for the ¼ sec. cor. of secs. 31 and 32. Set an iron post, 30 ins. long, 2½ ins. diam., 4 ins. in the ground to bedrock and in a mound of stone to top, with brass cap mkd. ¼ S31 | S32 1960
47.62	Top of ascent; over rolling hills.
61.54	Dry wash, 5 ft. deep, 20 lks. wide, drains S. 85° E.
80.00	Point for the cor. of secs. 29, 30, 31 and 32. Set an iron post, 30 ins. long, 2½ ins. diam., 13 ins. in the ground to bedrock and in a mound of stone to top, with brass cap mkd. T32S R5W S30 | S29 S31 | S32 1960

Survey Portion of Subdivision, T. 32 S., R. 5 W.

Chains

Land, steep S. slope on S. ½ mile, rolling hills on N. ½ mile.
Soil, rocky gravel.
Vegetation, sagebrush, juniper and pinon.

From the cor. of secs. 4, 5, 32 and 33, on the S. bdy. of the Tp., marked by a stone, 6x12x12 ins., firmly set, with 4 grooves on E. face, and 2 grooves on W. face.
At the cor. point

Set an iron post, 30 ins. long, 2½ ins. diam., 24 ins. in the ground with brass cap mkd.

T32S R5W
S32 | S33
S 5 | S 4
T33S
1960

Bury original cor. alongside iron post.
from which

A pine, 14 ins. diam., bears S. 50° W., 48 lks. dist., mkd. T. 33 S., R5W S5 BT.

N. 0° 03' W., bet. secs. 32 and 33.

Over rough hills, through thick juniper, pinon and sagebrush.

2.00 Desc. steep NE. slope.

13.70 Dry wash in bottom of ravine, drains S. 60° E.; asc. steep SW. s

27.30 Top of ascent; over rolling hills.

40.00 Point for the ¼ sec. cor. of secs. 32 and 33.

Set an iron post, 30 ins. long, 2½ ins. diam., 24 ins. in the gr. with brass cap mkd.

T32S R5W
¼
S32 | S33
1960

from which

A pinon, 16 ins. diam., bears N. 60° W., 74 lks. dist., mkd. ¼ S32 BT.

A pinon, 15 ins. diam., bears N. 30° E., 1.00 ch., mkd. ¼ S33 BT.

Raise a mound of stone to W.

48.47 Power line, bears N. 75° W. and S. 75° E.

53.17 Bladed road, bears N. 72° N. and S. 72° E.

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Survey, Portion of Subdivision, T. 32 S., R. 5 W.

Chains	
77.90	Dry wash, 3 ft. deep, drains E.
80.00	Point for the cor. of secs. 28, 29, 32 and 33.
	Set an iron post, 30 ins. long, 2½ ins. diam., 24 ins. in the ground, with brass cap mkd,
	T32S R5W S29 | S28 S32 | S33 1960
	from which
	A pinon, 18 ins. diam., bears N. 46° W., 27 lks. dist., mkd. S29 BT.
	A pinon, 9 ins. diam., bears N. 78° E., 34 lks. dist., mkd. S28 BT.
	Land, hills. Soil, rocky gravel. Vegetation, juniper, pinon and scattered sagebrush.
	S. 89° 58' W., bet. secs. 29 and 32.
	Over rolling hills, through pinon, juniper and sagebrush.
2.46	Old dirt road, bears NW. and SE.
3.56	Dry wash, 3 ft. deep, 25 lks. wide, drains S. 20° E.
22.02	Dry wash, 2 ft. deep, 20 lks. wide, drains S. 55° E.
39.98	Point for the ¼ sec. cor. of secs. 29 and 32.
	Set an iron post, 30 ins. long, 2½ ins. diam., 24 ins. in the ground, with brass cap mkd.
	T32S R5W ¼ S29 S32 1960
	from which
	A pinon, 14 ins. diam., bears N. 69° E., 19 lks. dist., mkd. ¼ S29 BT.
	A pinon, 10 ins. diam., bears S. 22° E., 61 lks. dist., mkd. ¼ S32 BT.
58.57	Bladed dirt road, bears N. 75° E. and S. 75° W.
63.89	Power line bears N. 75° W. and S. 75° E.
79.96	The cor. of secs. 29, 30, 31 and 32.
	Land, hills. Soil, rocky gravel. Vegetation, juniper, pinon and scattered sagebrush.

Survey, Portion of Subdivision, T. 32 S., R. 5 W.

Chains

General Description.

The land within the above surveyed portion of T. 32 S., R. 5 W. is of a rough hilly nature, covered with juniper, pinon and sagebrush. The elevation ranges from approximately 7,300 to 7,700 feet above sea level. The soil is a rocky gravel type. The general drainage is southeasterly. The center of the township is located approximately twelve miles north and three miles west from Panguitch, Utah.

A power line, with a bladed road alongside, runs through the southwest portion of the township. A state highway runs through the southeast portion of the township. A main access road leaves the state highway in the middle of sec. 26, and runs north westerly up to the north boundary of section 5.

The primary use of this township is grazing. The livestock drink of ponds that have been built by the grazing service, and springs in the bottom of the deeper canyons.

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4-000
(Feb., 1960)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FIELD ASSISTANTS

NAMES	CAPACITY
Woodrow H. Sylvester	Chief of Party
William R. savage	Transitman
Leonard W. Murphy	Notekeeper
Elbert O. Jensen	Head Chainman
Milton R. Workman	Axeman
David J. Cummings	Flagman

16—68568-2

CERTIFICATE OF CADASTRAL ENGINEER

I, Woodrow H. Sylvester, HEREBY CERTIFY upon honor

pursuance of special instructions bearing date of the 21st day of September,

I have surveyed the west [illegible], and dependentl[illegible] and [illegible] a [illegible]

of the subdivision of T. 32 S., R. 5 W.

of the Salt Lake Meridian, in the State of Utah, which

represented in the foregoing field notes as having been executed by me and under my direction; and

said survey has been made in strict conformity with said instructions, the Manual of Instructions for

Survey of the Public Lands of the United States, and in the specific manner described in the fo[illegible]

field notes.

Salt Lake City, Utah

April 12, 1961

Woodrow H. Sylvester

Woodrow H. Sylvester, Cadastral [illegible]

CERTIFICATE OF APPROVAL

BUREAU OF LAND MANAGEMENT,

Washington, D. C., SEP 13 1962, *19*

The foregoing field notes of the survey of The west boundary, and dependent resurvey

survey of a portion of the subdivision of T. 32 S., R. 5 W., Salt Lake Me[illegible]

Utah

executed by Woodrow H. Sylvester, Cadastral Surveyor

having been critically examined and found correct, are hereby approved.

[illegible]

Chief, Division of [illegible]ineering

CERTIFICATE OF TRANSCRIPT

[illegible]

, is a true copy of the original [illegible]

[illegible]

U. S. GOVERNMENT PRINTING OFFICE 16—[illegible]

BUR. OF ...
MAY 1 2 17 PM 1962
COMMUNICATIONS UNIT
ORIGINAL

1948)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

215

ORIGINAL

FIELD NOTES

OF THE DEPENDENT RESURVEY

OF PORTIONS OF THE EAST BOUNDARY

OF TOWNSHIP 31 SOUTH, RANGE 6 WEST AND

TOWNSHIP 32 SOUTH, RANGE 6 WEST

AND THE SURVEY

OF THE SUBDIVISIONAL LINES

OF TOWNSHIP 32 SOUTH, RANGE 5½ WEST

Of the Salt Lake *Meridian,*

he State of Utah

EXECUTED BY

Woodrow H. Sylvester, Cadastral Surveyor

er special instructions dated September 21, *19* 59, *which provided*

the surveys included under Group No. 432, *approved* October 1, 1959

assignment instructions dated August 4, *19* 60

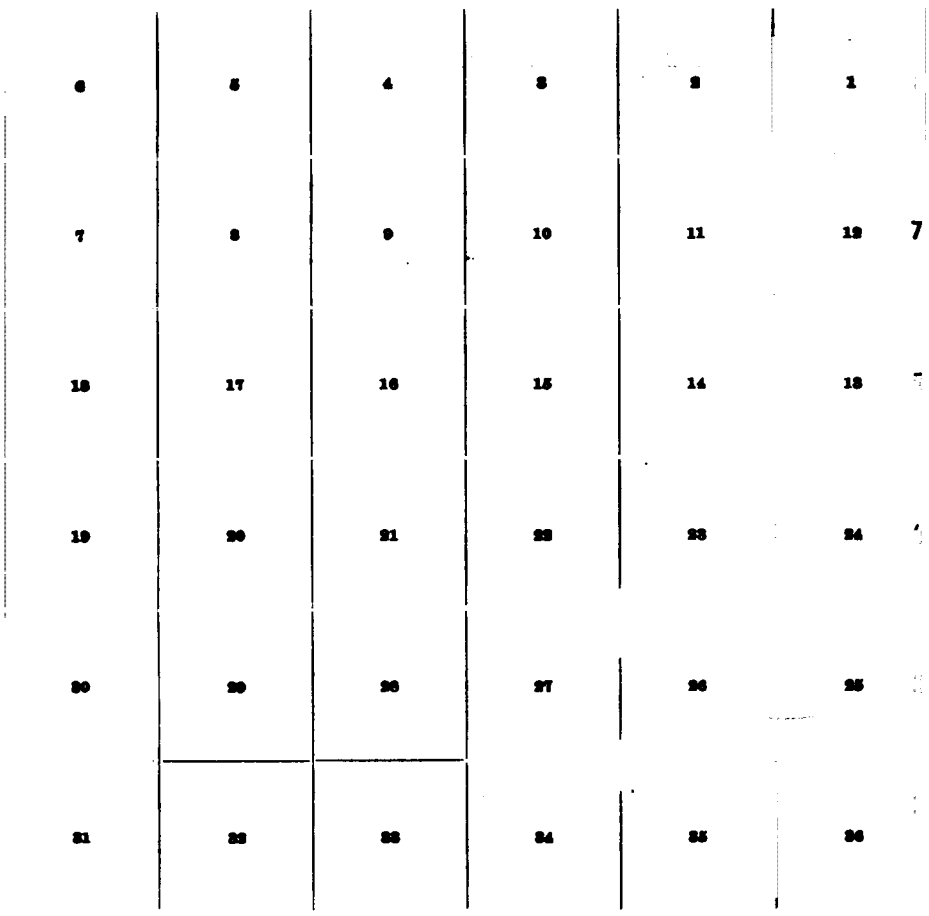
Survey commenced September 4, *19* 60

Survey completed September 14, *19* 60

INDEX DIAGRAM

T.32
R.5½

Township 32 South, *Range* 6 West



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36
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GPO 866110

Township 32 South, Range 5½ West

Chains

The south one and one half miles and the north two miles of the west boundary were surveyed by A. J. Stewart Jr. in 1873, and the west boundary of sections 13 and 24 and the north half of the west boundary of section 25 were surveyed by Stewart and Stewart in 1910. The south boundary was surveyed by Ralph Gentry in 1920. The east boundary was surveyed concurrently under this same group and the record appears in the field notes of T. 32 S., R. 5 W.

The following field notes are those of a dependent resurvey of the east boundary of T. 32 S., R. 6 W., with original corners marked to function for the east boundary of T. 32 S., R. 6 W. only, and corners at regular intervals to function for the west boundary of T. 32 S., R. 5½ W. only, and a survey of the subdivisional lines of T. 32 S., R. 5½ W.

The survey was requested by Management of Lands and Resources, Bureau of Land Management.

The survey was executed with W. & L. E. Gurley transits, serial numbers 541409 and 570628, both being the property of the Bureau of Land Management and constructed in accordance with their standard specifications. The horizontal plates have two double opposite verniers graduated to 30" of arc, and the vertical circles have one double vernier graduated to single minutes. The instruments were in good adjustment and prior to the beginning of the field work they were examined and the errors eliminated. They were maintained in good adjustment during the survey.

The directions of all lines were determined by stellar observations and by direct solar method. The measurements were made with Lufkin steel tapes, 8 chains in length, graduated to one tenth link for the first 10 links, and each link for the next 90 links, and thereafter at intervals of 10 links. The tapes were tested by comparison with a one chain standard tape and found correct. All measurements made on the slope had the vertical angle of each interval ascertained by a clinometer in good adjustment, the horizontal equivalents only are entered in the field note record.

The geographic position of the southeast corner of the township is latitude 37° 58' 40" N. and longitude 112° 27' 58" W., as determined through section lines and direct tie to U.S.C. & G.S. triangulation station "Bear," located S. 69° 24' W., 29.96 chains from W. ¼ corner of section 24, T. 32 S., R. 5½ W.

The mean magnetic declination is 16° 00' E.

Dependent Resurvey of a Portion of the E. Bdy., of T.32 S., R. 6 W.

Reestablishment of the surveys executed by A. J. Stewart Jr. in 1873 and Stewart and Stewart in 1910.

This boundary is found out of limits in measurement; therefore, cors. for the W. bdy. of T. 32 S., R. 5½ W., will be set at regular intervals in latitude. The original cors. will be remonumented to function for the E. bdy. of T. 32 S., R. 6 W. only, and determine the alignment.

Beginning from the cor. marking the SW. cor. of sec. 31, T. 32 S., R. 5 W. and the NW. cor. of sec. 1, T. 33 S., R. 6 W., mkd. and witnessed as described in the official records, and as shown below.

Dependent Resurvey, Portion of E. , T. 32 S., R. 6 W.

Chains

T32S R5W
S31
S 1
T33S R6W
1920

Remarked to read

T32S R5½W
S36
S 1
T33S R6W
1920
1960

from which

The ¼ sec. cor. of sec. 36, T. 32 S., R. 6 W., bears S. 2.90 chs., mkd. by a stone, 10x14x18 ins., firmly set, mkd. ¼ on W. face.

At the cor. point

Set an iron post, 30 ins. long, 2½ ins. diam., 5 ins. in the ground to bedrock and in a mound of stone to top, with brass cap mkd.

T32S
R 6W
¼ S36
1960

Bury original cor. stone alongside iron post.

Point for the S. ¼ sec. cor. of sec. 36 on the S. bdy. of T. 32 S., R. 5½ W., bears E. 12.39 chs. from the cor. of T. 32 S., R. 5½ W. and T. 33 S., R. 6 W.

At the cor. point

Set an iron post, 30 ins. long, 2½ ins. diam., 4 ins. in the ground to bedrock and in a mound of stone to top, with brass cap mkd.

T32S R5½W
¼ S36
1960

From the SW. cor. of sec. 36, T. 32 S., R. 5½ W.

N. 0° 33' E., along the E. bdy. of sec. 36, T. 32 S., R. 6 W.

Over rolling hills, through thick juniper and pinon.

13.09 Desc. over steep N. slope.

37.61 Point for the original cor. of secs. 25, 30, 31 and 36 at record bearing and distance from two original bearing trees hereinafter described. This point now functions as the cor. of secs. 25 and 36, T. 32 S., R. 6 W., only.

At the cor. point

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R. 6 W.

Chains

Set an iron post, 30 ins. long, 2½ ins. diam., 6 ins. in the ground to bedrock and in a mound of stone to top, with brass cap mkd.

T32S
R 6W
S25
S36
1960

from which

An original bearing tree bears N. 10° W., 15 lks. dist., mkd. S25 BT.

An original bearing tree bears S. 15° E., 70 lks. dist., mkd. S31 BT, remarked to read T32S R5½W S36 BT.

Land, steep hills.
Soil, rocky gravel.
Vegetation, sagebrush, juniper and pinon.

N. 0° 34' W., along the E. bdy. of sec. 25.

Over rough hills, through pinon, juniper and sagebrush.

2.39 Point for the ¼ sec. cor. of sec. 36, T. 32 S., R. 5½ W.

Set an iron post, 30 ins. long, 2½ ins. diam., 12 ins. in the ground to bedrock and in a mound of stone to top, with brass cap mkd.

T32S
R5½W
¼ S36
1960

from which

A juniper, 12 ins. diam., bears S. 70° E., 13 lks. dist., mkd. ¼ S36 BT.

3.79 Ravine, drains W.

12.92 Bladed access road, bears N. 85° E. to S. 85° W.

13.49 Dry wash, 3 ft. deep, 25 lks. wide, drains N. 80° E. and S. 80° W.

21.16 Asc. steep S. slope.

27.00 Top of steep ascent; thence over rolling hills.

40.02 The ¼ sec. cor. of secs. 25 and 30, mkd. by a stone, 6x10x14 ins., firmly set, with ¼ grooved on W. face. This cor. now functions for Sec. 25, T. 32 S., R. 6 W. only.

At the cor. point

Set an iron post, 30 ins. long, 2½ ins. diam., 14 ins. in the ground and in a mound of stone to top, with brass cap mkd.

Chains	
	T32S. R 6W ¼ S25| 1960
	Bury the original cor. stone alongside the iron post.
	N. 2° 09' E., beginning new measurement.
2.37	Point for the cor. of secs. 25 and 36 on the W. bdy. of T. 32 S., R. 5½ W.
	At the cor. point Set an iron post, 30 ins. long, 2½ ins. diam., 14 ins. in the ground to bedrock and in a mound of stone to top, with brass cap mkd. T32S R5½W S25| S36| 1960
3.85	Desc. N. slope.
12.84	Dry wash, 3 ft. deep, 10 lks. wide, drains S. 30° E.; asc. NE.
40.79	The cor. of secs. 19, 24, 25 and 30, mkd. by an iron post, mkd. witnessed as described in the official record. Cap remarked to function as secs. 24 and 25, T. 32 S., R. 6 W. only, as follows T32S R 6W S24| S25| 1910 1960
	Land, rough hills. Soil, rocky gravel. Vegetation, pinon, juniper and sagebrush.
	N. 0° 10' W., along the E. bdy. of sec. 24.
.97	Desc. NE. slope.
1.58	Point for the ¼ sec. cor. of sec. 25 on the W. bdy. of T. 32 S., R. 5½ W. Set an iron post, 30 ins. long, 2½ ins. diam., 13 ins. in the ground to bedrock and in a mound of stone to top, with brass cap mkd. T32S R5½W ¼ S25| 1960
9.58	Bottom of descent.
26.58	Dry wash, 3 ft. deep, 15 lks. wide, drains E.; asc. S. slope.

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R. 6 W.

Chains	
35.76	projects E.; desc. N. slope.
40.37	¼ sec. cor. of secs. 19 and 24, mkd. by an iron post, mkd., as described in the official record. Cap remarked to function as ¼ sec. cor. of sec. 24, T. 32 S., R. 6 W. only, as follows

T32S
R 6W
¼ S24|
1910
1960

N. 0° 17' W., beginning new measurement.

1.21	Point for the cor. of secs. 24 and 25, on the W. bdy. of T. 32 S., R. 5½ W.

Set an iron post, 30 ins. long, 2½ ins. diam., 24 ins. in the ground, with brass cap mkd.

T32S
R5½W
|S24
|S25
1960

2.00	Dry wash, 4 ft. deep, 10 lks. wide, drains S. 80° E.; asc. S. slope.
27.58	Power line, bears N. 85° W. and S. 85° E.
34.10	Top of ridge; desc. steep N. slope.
40.12	The cor. of secs. 13, 18, 19 and 24, mkd. by an iron post, mkd. and witnessed as described in the official record. Cap remarked to function for secs. 13 and 24, T. 32 S., R. 6 W. only, as follows

T32S
R 6W
S13|
S24|
1910
1960

Land, steep hills.
Soil, rocky gravel.
Vegetation, pinon, juniper, sagebrush and mahogany.

N. 0° 06' E., along E. bdy. of sec. 13.

Over rolling hills, through juniper, pinon, mahogany and sagebrush.

1.09	Point for the ¼ sec. cor. of sec. 24, on W. bdy. of T. 32 S., R. 5½ W.

Set an iron post, 30 ins. long, 2½ ins. diam., 12 ins. in the ground to bedrock and in a mound of stone to top, with brass cap mkd.

T32S
R5½W
|¼ S24
1960

from which

Chains	
	A pinon, 12 ins. diam., bears N. 10° W., 20 lks. dist., mkd. S13 BT.
	U.S.C. & G.S. triangulation station "Bear," latitude 38° 00' 43.322" N., longitude 112° 29' 03.568" W., bears S. 69° 24' W., 29.96 chs.
6.42	Asc. steep SE. slope.
10.69	Top of ascent, bladed road to television booster station, bears W. and E., 2 chs.; thence southerly.
15.63	Beginning descent over N. slope.
40.10	The ¼ sec. cor. of secs. 13 and 18, mkd. and witnessed as described in the official record. Cap remarked to function as the ¼ sec. cor. of sec. 13, T. 32 S., R. 6 W. only, as follows T32S R 6W ¼ S13 1910 1960

N. 0° 05' W., beginning new measurement.

.99	Point for the cor. of secs. 13 and 24 on W. bdy. of T. 32 S., R. 5½ Set an iron post, 30 ins. long, 2½ ins. diam., 24 ins. in the with brass cap mkd. T32S R5½W S13 S24 1960
1.29	The bottom of hill, drains W.; asc. N. slope.
40.99	Point for the ¼ sec. cor. of sec. 13 on the W. bdy. of T. 32 S., R. 5½ W. Set an iron post, 30 ins. long, 2½ ins. diam., 11 ins. in the ground to bedrock and in a mound of stone to top, with brass cap mkd. T32S R5½W ¼ S13 1960
42.25	The cor. of secs. 7, 12, 13 and 18, mkd. by a large pile of stone, and old abandoned fence cor, with fence bearing W. and W. At the cor. point Set an iron post, 30 ins. long, 2½ ins. diam., 6 ins. in the ground to bedrock and in a mound of stone to top, with brass cap mkd. T32S R 6W S12 S13 1960

Land, large hills.
Soil, rocky gravel.
Vegetation, sagebrush, juniper, pinon and mahogany.

Chains	
	N. 0° 13' W., along E. bdy. of sec. 12.
5.86	Top of steep ascent; desc. NW. slope.
11.87	Enter thick sagebrush.
37.38	Dry wash, 3 ft. deep, 20 lks. wide, drains W.
38.74	Point for the cor. of secs. 12 and 13 on the W. bdy. of T. 32 S., R. 5½ W., on old N. and S. fence line. Set an iron post, 30 ins. long, 2½ ins. diam., 8 ins. in the ground to bedrock and in a mound of stone to top, with brass cap mkd. T32S R5½W S12 | S13 1960
39.02	The ¼ sec. cor. of secs. 7 and 12, mkd. by a stone, 10x12x14 ins., firmly set in a mound of stone, with ¼ grooved on W. face, on old N. and S. fence line. It functions for sec. 12 only. At the cor. point Set an iron post, 30 ins. long, 2½ ins. diam., 10 ins. in the ground and in a mound of stone to top, with brass cap mkd. T32S R 6W ¼ S12 1960 Bury original cor. stone alongside iron post.
	N. 0° 24' W., beginning new measurement.
.25	Bottom of ravine drains S. 80° W.; asc. S. slope.
12.61	Top of ascent; desc. N. slope.
39.72	Point for ¼ sec. cor. of sec. 12 along fence line on W. bdy. of T. 32 S., R. 5½ W. Set an iron post, 30 ins. long, 2½ ins. diam., 24 ins. in the ground, with brass cap mkd. T32S R5½W ¼ S12 1960
40.05	The cor. of secs. 1, 6, 7 and 12, mkd. by a stone, 4x8x15 ins., firmly set, with 5 grooves on S. face and 1 groove on N. face. On fence cor. which bears S. and W.; cor. now functions for secs. 1 and 12, T. 32 S. R. 6 W.

Resurvey, Portion of T. 32 S., R. 6 W.

Chains	
	At the cor. point
	Set an iron post, 30 ins. long, 2½ ins. diam., 24 ins. in the ground with brass cap mkd.
	T32S R 6W S 1 | S12 | 1960
	Bury original cor. stone alongside iron post.
	Land, large rolling hills. Soil, gravelly loam.
	N. 0° 25' E., along E. bdy. of Sec. 1, T. 32 S., R. 6 W.
	End of descent, through thick sagebrush.
11.47	Asc. gradual S. slope.
15.85	Bladed road, bears W. and NE.
37.34	Bladed road, bears E. and W.
39.67	Point for the cor. of secs. 1 and 12 on the W. bdy. of T. 32 S., R. 5½ W.
	Set an iron post, 30 ins. long, 2½ ins. diam, 12 ins. in the ground to bedrock and in a mound of stone to top, with brass cap mkd.
	T32S R5½W S 1 | S12 | 1960
40.43	The ¼ sec. cor. of secs. 1 and 6, mkd. by a stone, 7x10x16 ins. firmly set, with ¼ on W. face. Cor. now functions for sec. 1, T. 32 S., R. 6 W. only.
	At the cor. point
	Set an iron post, 30 ins. long, 2½ ins. diam., 12 ins. in the ground to bedrock and in a mound of stone to top, with brass cap mkd.
	T32S R 6W ¼ S 1 | 1960
	Bury original cor. stone alongside iron post.
	N. 0° 05' W., beginning new measurement.
23.90	Top of ascent.
36.06	Desc. N. slope.
39.24	Point for the ¼ sec. cor. of sec. 1 on W. bdy. of T. 32 S., R. 5½ W.

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Chains

an iron post, 30 ins. long, 2½ ins. diam., 8 ins. in the ground to bedrock and in a mound of stone to top, with brass cap mkd.

T32S
R5½W
¼ S 1
1960

39.77 The cor. of Tps. 31 and 32 S., Rs. 5 and 6 W., mkd. by an iron post, mkd. and witnessed as described in the official record. Cap remarked to function as secs. 1 and 36, Tps. 31 and 32 S., R. 6 W. only, as follows

T31S
R 6W
S36
S 1
T32S
1910
1960

Land, rolling hills.
Soil, gravel and loam.
Vegetation, thick sagebrush.

Dependent Resurvey of a Portion of the E. Bdy. of T. 31 S., R. 6 W.

Reestablishment of the survey executed by A. J. Stewart Jr. in 1873.

N. 0° 04' W., along E. bdy. of sec. 36, T. 31 S., R. 6 W.

Over rolling hills, through thick sagebrush.

7.03 End of desert.

7.10 Dry wash, drains N. 70° E.; asc. SE. slope.

23.86 Top of ridge, bears N. 40° E. and S. 40° W.; desc. NW. slope.

40.05 The ¼ sec. cor. of secs. 31 and 36, mkd. by an iron post, mkd., witnessed as described in the official record. Cap remarked to function as ¼ sec. cor. of sec. 36, T. 31 S., R. 6 W. only, as follows

T31S
R 6W
¼ S36
1960
1910

Bottom of gradual descent; asc. gradual N. slope.
Thence North beginning new measurement.

6.55 The closing cor. of secs. 6 and 31, Tps. 31 and 32 S., R. 5 W. Cap remarked to function as S31, T. 31 S., R. 5 W. in NE. quadrant, and S1. T. 32 S., R. 5½ W. in SE. quadrant, as follows

T31S
R6W | R5W
S36 | S31 C
S 1 C
T32S
R5½W
1911
1960

Land, rolling hills.
Soil, gravel and loam.
Vegetation, thick sagebrush.

Chains	Survey of the Subdivision of T. 32 S., R. 5½ W.
	From the cor. of secs. 25, 30, 31 and 36, on the E. bdy. of the Tp.
	N. 89° 59' W., bet. secs. 25 and 36.
	Over rough hills, through juniper, pinon and sagebrush.
2.30	Dry wash, 2 ft. deep, 15 lks. wide, drains S.45° W.
23.72	Dry wash, 2 ft. deep, 15 lks. wide, drains S. 40° W.
37.38	Desc. steep W. slope.
40.00	Point for the ¼ sec. cor. of secs. 25 and 36.
	Set an iron post, 30 ins. long, 2½ ins. diam., 12 ins. in the ground to bedrock and in a mound of stone to top, with brass cap mkd.
	T32S R5½W ¼ S25/S36 1960
43.50	Bottom of descent.
44.00	Graded road, bears N. and S.
44.30	Dry wash, 2 ft. deep, 25 lks. wide, drains S.; asc. steep E. slope.
52.31	The cor. of secs. 25 and 36 on W. bdy. of Tp.
	Land, rough hills. Soil, rocks and gravel. Vegetation, juniper, pinon and sagebrush.
	From the cor. of secs. 19, 24, 25 and 30 on the E. bdy. of the Tp.
	S. 89° 59' W., bet. secs. 24 and 25.
	Asc. gradual SW. slope through juniper, pinon and sagebrush.
25.82	Top of ascent; desc. gradual NE. slope.
40.00	Point for the ¼ sec. cor. of secs. 24 and 25.
	Set an iron post, 30 ins. long, 2½ ins. diam., 10 ins. in the ground to bedrock and in a mound of stone to top, with brass cap mkd.
	T32S R5½W ¼ S24/S25 1960
43.83	Dry wash, 4 ft. deep, 20 lks. wide, drains S.
47.72	Improved dirt road, bears N. and S.
51.09	The cor. of secs. 24 and 25 on W. bdy. of Tp.
	Land, rough hills. Soil, rocks and gravel. Vegetation, pinon, juniper and sagebrush.

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of T. 32 R. W.

Chains	
	From the cor. of secs. 13, 18, 19 and 24 on the E. bdy. of the Tp.
	N. 89° 59' W., bet. secs. 13 and 24.
	Over hills, through pinon, juniper and sagebrush.
20.86	Bottom of ravine, drains S. 15° W.; asc. SE. slope.
30.39	Top of ascent.
40.00	Point for the ¼ sec. cor. of secs. 13 and 24.
	Set an iron post, 30 ins. long, 2½ ins. diam., 12 ins. in the ground to bedrock and in a mound of stone to top, with brass cap mkd.
	T32S R5½W ¼ S13/S24 1960
46.20	Desc. NW. slope.
51.31	The cor. of secs. 13 and 24 on the W. bdy. of the Tp.
	Land, hills. Soil, gravel. Vegetation, pinon, juniper and mahogany on E. ½ mile; sagebrush on W. ½ mile.
	From the cor. of secs. 7, 12, 13 and 18 on the E. bdy. of the Tp.
	S. 89° 53' W., bet. secs. 12 and 13.
	Asc. E. slope, through pinon, juniper and sagebrush.
22.34	Top of ascent.
29.02	Desc. steep W. slope.
40.00	The ¼ sec. cor. of secs. 12 and 13.
	Set an iron post, 30 ins. long, 2½ ins. diam., 9 ins. in the ground to bedrock and in a mound of stone to top, with brass cap mkd.
	T32S R5½W ¼ S12/S13 1960
51.61	The cor. of secs. 12 and 13, on the W. bdy. of the Tp.
	Land, rough hills. Soil, gravel. Vegetation, thick sagebrush, with scattered pinon, juniper and mahogany.
	From the cor. of secs. 1, 6, 7 and 12 on the E. bdy. of the Tp.
	S. 89° 52' W., bet. secs. 1 and 12.
	Asc. E. slope, through thick sagebrush.
20.81	Top of ascent, desc. NW. slope.
35.18	Dry wash, 3 ft. deep, 12 lks. wide, drains N. 50° E.; asc. SE. slope.

Survey of Subdivision, T. 32 S., R. 5½ W.

Chains	
40.00	Point for the ¼ sec. cor. of secs. 1 and 12. Set an iron post, 30 ins. long, 2½ ins. diam., 8 ins. in the ground to bedrock and in a mound of stone to top, with brass cap mkd. T32S R5½W ¼ S 1 S12 1960
51.78	The cor. of secs. 1 and 12, on the W. bdy. of the Tp. Land, rolling hills. Soil, gravel and loam. Vegetation, thick sagebrush.

General Description

The land within T. 32 S., R. 5½ W. is large hills covered with juniper, pinon and sagebrush. The elevation ranges from approximately 7,300 to 7,700 feet above sea level. The soil is a rocky gravel type. The drainage is southwesterly in the southern part, and easterly in the northern portion.

One access road enters near the W. ¼ corner of section 36 and runs northerly near the west boundary of the township to a point near the W. ¼ corner of section 24, thence west. Another road runs along a power line which enters the township near the southeast corner of section 24, bearing approximately N. 70° E. until it intersects with above-mentioned road.

The township is used primarily for grazing.

1950)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FIELD ASSISTANTS

NAMES	CAPACITY
Woodrow H. Sylvester	Chief of Party
William R. [illegible]	Transitman
Leonard W. [illegible]	Notekeeper
Elbert O. Jensen	Head Chainman
Milton R. Workman	Axeman
David J. C[illegible]	Flagman

16—53565-2

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CERTIFICATE OF CADASTRAL ENGINEER

I, Woodrow H. Sylvester, HEREBY CERTIFY upon honor that in pursuance of special instructions bearing date of the 21st day of September, I have ~~executed~~ dependently resurveyed portions of the east [illegible] of T. 31 S., R. 6 W. and T. 32 S., R. 6 W.; and surveyed the subdivisional lines of T. 32 S., R. 5½ W.

of the Salt Lake Meridian, in the State of Utah, represented in the foregoing field notes as having been executed by me and under my direction; and that said 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.

Salt Lake City, Utah

April 14, 1961

Woodrow H. Sylvester, Cadastral Engineer

CERTIFICATE OF APPROVAL

BUREAU OF LAND MANAGEMENT,

Washington, D. C., SEP 13 1962, *19*

The foregoing field notes of the ~~survey~~ Dependent resurvey of portions of the east boundary of T. 31 S., R. 6 W. and T. 32 S., R. 6 W.; and the survey of subdivisional lines of T. 32 S., R. 5½ W.

executed by Woodrow H. Sylvester, Cadastral Surveyor

having been critically examined and found correct, are hereby approved.

Chief, Division of Engineering

CERTIFICATE OF TRANSCRIPT

[illegible] foregoing [illegible] notes [illegible] surveys [illegible], is a true copy of the [illegible]

[illegible]

U. S. GOVERNMENT PRINTING OFFICE 16—43866-2

4—679
tember 1948) DEPT OF THE INTERIOR
BUREAU OF LAND MGMT

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

JAN 2 9 10 AM

ORIGINAL

RECEIVED
STATE & LAND OFFICE
SALT LAKE CITY, UTAH

FIELD NOTES

OF THE SURVEY

OF A PORTION OF THE SOUTH BOUNDARY

(FOURTH STANDARD PARALLEL SOUTH)

AND

A PORTION OF THE SUBDIVISIONAL LINES

OF

TOWNSHIP 20 SOUTH, RANGE 13 EAST

Of the SALT LAKE *Meridian,*

the State of UTAH

EXECUTED BY

Fred R. Chappell, Cadastral Surveyor

Under the supervision of Craig P. Sylvester, Cadastral Surveyor

der special instructions dated May 23, *19* 32, *which provided*
pplemental special instructions May 31 1961

the surveys included under Group No. 235, *approved* July 22, 1962
June 8, 1961

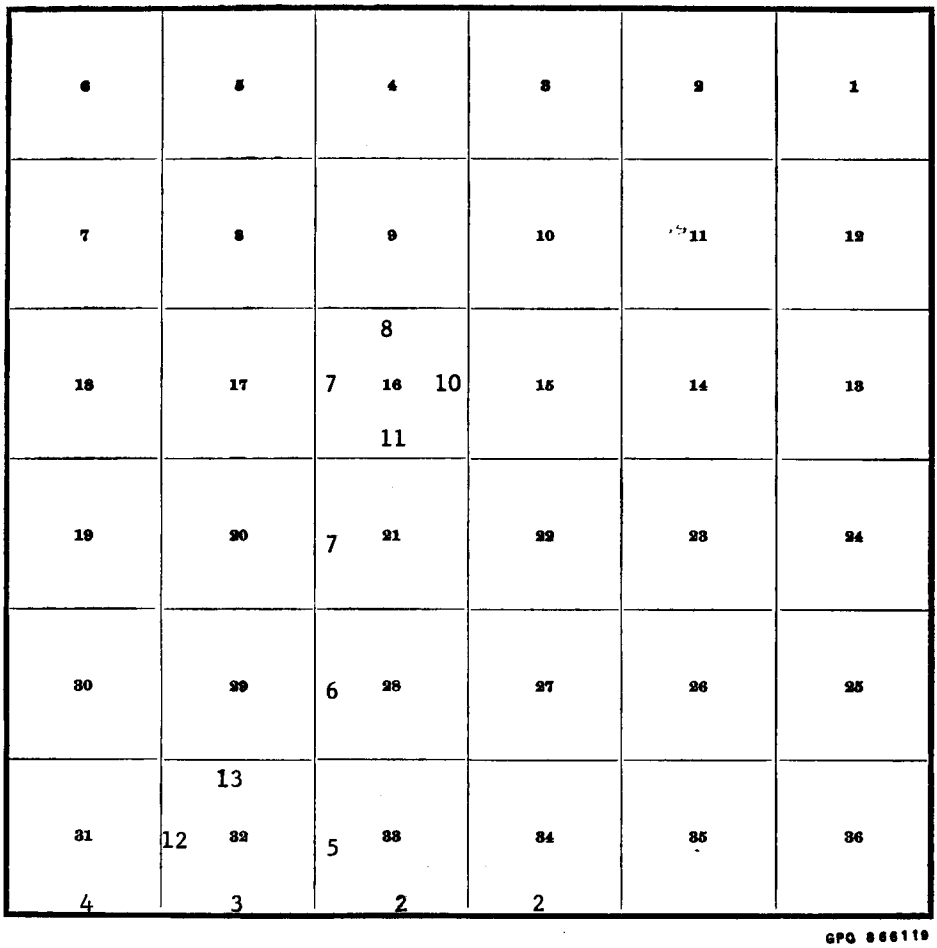
d assignment instructions dated April 25, *19* 61

Survey commenced June 23, *19* 61

Survey completed July 3, *19* 61

INDEX DIAGRAM

Township 20 SOUTH, *Range* 13 EAST



GPO 866119

Chains

The west boundary was surveyed by J. C. Clark in 1933. A portion of the south boundary, (Fourth Standard Parallel South), was surveyed by C. F. Moore in 1933. The east boundary was surveyed by H. W. Miller in 1912. A portion of the north boundary was surveyed by J. C. Thoma in 1923. A portion of the north boundary was surveyed by Andrew Nelson, Elliott Bird, Robert C. Yundt and C. F. Moore, from 1933 to 1942.

The following field notes are those of the survey of a portion of the south boundary, (Fourth Standard Parallel South), and a portion of the subdivisional lines of Township 20 South, Range 13 East, deemed sufficient in extent to facilitate development of the natural resources and mark the boundaries of those sections that normally are considered state school sections.

The survey was executed with a W. & L. E. Gurley Solar Transit No. 541327 constructed in accordance with the standard instrumental specifications of the Bureau of Land Management. The instrument was in good condition prior to the beginning of the survey and was maintained in proper adjustment throughout the progress of this survey.

Corners on east-west lines were set on the true latitudinal curve. Lines connecting previously established corners were run by random and true method, but for simplification of the record the random lines are omitted from the field notes. In accordance with the intent of the special instructions, all subdivisional corners established are calculated to be at the position they would occupy if the entire township were subdivided.

Measurements herein contained were made with a narrow steel tape, 8 chains in length, graduated every link for the first 100 links and thereafter at intervals of 10 links. The tape was tested by comparison with a one chain standard steel tape and found to be correct. Measurements were made on the slope with the vertical angle of each interval ascertained by a clinometer in good adjustment; horizontal equivalents alone are entered in the field notes. All lines of this survey were run by direct method where the lines were accessible; lines inaccessible were run by traverse or triangulation methods. Distances to topography on lines run by traverse or triangulation are approximately as scaled from U. S. G. S. topographic sheets. The details of such traverses or triangulations have been thoroughly checked and verified, and in order to simplify the record the diagrams and reductions are omitted from these field notes.

The direction of the lines of this survey were determined by reference to true meridians established on line by altitude observations on the sun. The lines were carried forward by sustained angulation being supplemented by other numerous altitude observations on the sun taken throughout the progress of the survey.

The geographic position for the southeast corner of section 34 at latitude 39° 01' 55" N. and longitude 110° 26' 16" W. as computed from U. S. G. S. triangulation station "Ernie", located in section 36, Township 23 South, Range 12 East.

The magnetic declination was read at a number of stations throughout the township and the average of these readings was found to be 16° east.

Survey of a Portion of the South Boundary, (Fourth Standard Parallel South), Township 20 South, Range 13 East

Beginning at the standard cor. of secs. 34 and 35, T. 20 S., R. 13 E. monumented with a 2 in. iron post, set, mkd. and witnessed as described in the official record.

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Survey of a Portion of the S. Bdy. (4th Stan. Par. S.), of

Chains	
	West, along the S. bdy. of sec. 34.
	Over rough, broken land of San Rafael Reef.
2.60	E. rim of Spring Canyon, ledge, about 200 ft. high, bears N. and S. by triangulation; desc. abruptly about 880 ft. over sheer sands ledges, on W. slope.
18.50	Spring Canyon, drains irregularly S.; asc. about 120 ft. over gentl rocky NE. slope.
39.28	End triangulation.
40.00	Point for the standard ¼ sec. cor. of sec. 34.
	Set an iron post, 30 ins. long, 2½ ins. diam., on solid sandstone, and in a mound of stone, 4 ft. base to top, with brass cap mkd. S C T20S R13E ¼ S34 1961
	By triangulation; asc. about 120 ft. over gentle NE. slope.
53.00	Base of steep ascent, bears NW. and SE.; asc. abruptly about 680 f over broken, ledgy NE. to E. slopes.
80.00	Point for the standard cor. of secs. 33 and 34, falls on ledges facing E. and cannot be perpetuated.
	Land, broken. Soil, rocky, loamy clay, with considerable exposed sandstone. Timber, none. Undergrowth, scattered brush and shadscale.
	West, along the S. bdy. of sec. 33.
	Continuing same triangulation.
1.30	Top of ledge, curves NE. and SE. End triangulation.
1.35	Point selected for the witness standard cor. of secs. 33 and 34.
	Set an iron post, 12 ins. long, 1 in. diam., drilled 6 ins. in so sandstone, and in a collar of stone, with brass cap mkd. S C T20S R13E S33 | S34 W C 1961
	Asc. 125 ft. over an E. slope.
11.30	Top of ascent, slopes S.; desc. 25 ft. along broken S. slope.
17.50	Small wash, drains SE.; asc. 45 ft. along broken S. slope.
33.50	Head of draw, drains SE.; asc. 40 ft. over E. slope.
40.00	Point for the standard ¼ sec. cor. of sec. 33.

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Survey of a Portion of the S. Bdy. (4th Stan. Par. S.), of T. 20 S., R. 13 E.

Chains	
	Set an iron post, 14 ins. long, 1 in. diam., drilled 6 ins. in solid sandstone, and in a collar of stone, with brass cap mkd. S C T20S R13E ¼ S33 1961
	By triangulation; asc. about 280 ft. over sandstone ledges on E. slope.
47.20	E. rim of small butte; end triangulation; thence over top of butte.
50.50	W. rim of same butte; desc. abruptly 200 ft. over broken NW. slope.
63.10	Bottom of descent, drains N.; asc. 10 ft. over SE. slope.
66.50	E. rim of canyon, ledge, about 400 ft. high, bears NW. and SE.; by triangulation; desc. abruptly about 400 ft. over SW. slope.
70.50	Base of ledge, bears NW. and SE.; desc. about 240 ft. over steep, broken, talus SW. slope.
80.00	Point for the standard cor. of secs. 32 and 33.
	Set an iron post, 30 ins. long, 2½ ins. diam., 2 ins. in the ground to bedrock, and in a mound of stone, 3½ ft. base to top, with brass cap mkd. S C T20S R13E S32 | S33 1961
	Land, rough and broken. Soil, sandstone, rocky loamy clay. Timber, none. Undergrowth, scattered brush and shadscale.
	West, along the S. bdy. of sec. 32.
	Over broken desert land through scattered brush.
	Desc. 450 ft. over steep, broken SW. slope.
40.00	Point for the standard ¼ sec. cor. of sec. 32 falls in wash, 40 lks. wide, 3 ft. deep, drains SE., and cannot be perpetuated.
40.20	Point selected for the witness standard ¼ sec. cor. of sec. 32.
	Set an iron post, 30 ins. long, 2½ ins. diam., 8 ins. in the ground to bedrock and in a mound of stone, 4 ft. base to top, with brass cap mkd. S C T20S R13E WC ¼ S32 1961
	Asc. 120 ft. over rolling bottom land.
59.50	Wash, drains N. 15° E.
70.30	Base of steep clay knolls; asc. 125 ft. over NE. slope.

U. S. GOVERNMENT PRINTING OFFICE 16—88580-2

GPO 896619

Survey of a Portion of the S. Bdy., (4th Stan. Par. S.), of

Chains

80.00 Point for the standard cor. of secs. 31 and 32 falls on steep clay slope, where cor. cannot be perpetuated.

Land, broken E. portion, rolling W. portion.
Soil, rocky clay.
Timber, none.
Undergrowth, scattered brush and shadscale.

West, along the S. bdy. of sec. 31.

Over broken land.

Asc. 175 ft. along broken N. slope.

2.00 Point selected for the witness standard cor. of secs. 31 and 32.

Set an iron post, 30 ins. long, 2½ ins. diam., 10 ins. in the ground and in a mound of stone, 3½ ft. base to top, with brass cap mkd.

S C
T20S R13E
WC S31 | S32
1961

19.40 Spur, slopes N.; desc. 40 ft. over W. slope.

21.50 Draw, drains N.; asc. 80 ft. over E. slope.

22.40 Red spur, slopes N.; asc. 50 ft. along N. slope.

27.90 Spur, slopes N.; asc. 15 ft. along N. slope.

40.00 Point for the standard ¼ sec. cor. of sec. 31.

Set an iron post, 30 ins. long, 2½ ins. diam., 6 ins. in the ground to bedrock, and in a mound of stone, 4 ft. base to top, with brass cap mkd.

S C
T20S R13E
¼ S31
1961

Desc. 80 ft. over a series of small clay spurs sloping N. along broken N. slope.

77.98 Intersect the west bdy. of the Tp.

Point for the standard closing cor. of T. 20 S., R. 13 E.

Set an iron post, 30 ins. long, 2½ ins. diam., 6 ins. in the ground to bedrock, and in a mound of stone, 4 ft. base to top, with brass cap mkd.

SC
T20S
R12E | R13E
S36 | S31 CC
1961

From this cor., the standard cor. of Tp. 20 S., Rs. 12 and 13 E., bears south, 7.35 chs. dist., and is monumented with a 3 in. iron post, set, mkd. and witnessed as described in the official record. I remark this cor. to refer to T. 20 S., R. 12 E. only.

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Survey of a Portion of the S. Bdy., (4th Stan. Par. S.), of T. 20 S., R. 13 E.

Chains	
	Land, broken, desert. Soil, rocky clay. Timber, none.
	Survey of a Portion of the Subdivision of Township 20 South, Range 13 East
	From the standard cor. of secs. 32 and 33 on the S. bdy. of the Tp.
	N. 0° 03' W., bet. secs. 32 and 33.
	Over broken land.
	By triangulation; asc. abruptly about 800 ft. over steep, talus and sandstone ledges on SW. slope.
5.50	Base of ledges, bears NW. and SE.
9.00	Top of ledge, about 400 ft. high, bears NW. and SE., continue ascent.
11.90	Top of ledge, bears SE. and irregularly N. End triangulation.
	Enter widely scattered scrub timber. Desc. 40 ft. along W. slope.
17.60	Ledge, 40 ft. high, bears SE. and curves NE.; desc. 160 ft. over broken NE. slope.
20.80	Head of draw, drains E.; asc. 160 ft. over broken, ledgy SE. slope.
23.80	Top of ledge, 100 ft. high, bears NE. and curves SE.; thence desc. 10 ft. over gentle N. slope.
31.70	Point selected for the witness ¼ sec. cor. of secs. 32 and 33.
	Set an iron post, 30 ins. long, 2½ ins. diam., 1 in. in the ground to bedrock and in a mound of stone, 4 ft. base to top, with brass cap mkd. T20S R13E ¼ S32 | S33 W C 1961
	Thence by traverse, desc. about 120 ft. over broken N. slope.
32.00	Ledge, 80 ft. high, bears E. and curves N., continue descent.
33.00	Draw, drains NE.; asc. about 80 ft. over ledges, along E. slope.
40.00	Point for the ¼, sec. cor. of secs. 32 and 33, falls on steep slope of ledges facing E. and cannot be perpetuated.
42.50	Draw, drains E.; asc. about 280 ft. over abrupt, ledgy S. slope.
45.80	Spur, projects SE., also W. side of sandstone pinnacle, about 100 ft. high, desc. abruptly about 600 ft. over broken, ledgy N. slope.
56.50	Draw, drains N. 70° E.; asc. about 80 ft. over SE. to E. slopes.

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Chains	
65.00	Ridge, bears N. 70° E. and S. 70° W.; desc. about 600 ft. over NW. to N. slopes.
80.00	Point for the cor. of secs. 28, 29, 32 and 33.
	On a broken N. slope, 600 ft. below ridge,
	Set an iron post, 30 ins. long, 2½ ins. diam., 4 ins. in the ground to bedrock, and in a mound of stone, 3½ ft. base to top, with brass cap mkd.
	T20S R13E S29 | S28 S32 | S33 1961
	End traverse.
	Land, broken. Soil, sandstone, rocky, loamy clay. Timber, widely scattered scrub pinon and juniper.
	N. 0° 03' W., bet. secs. 28 and 29.
	Over rough, broken land.
	By triangulation, desc. about 120 ft. over broken N. slope.
4.00	Wash, in canyon, drains E.; asc. about 640 ft. over broken, ledgy SE. slope.
16.60	N. rim of canyon, ledge, bears W. and NE. End triangulation, asc. 35 ft. over gentle SE. slope.
27.30	Top of ascent, slopes E.; desc. 95 ft. over steep N. slope.
33.95	Point selected for the witness ¼ sec. cor. of secs. 28 and 29.
	Set an iron post, 30 ins. long, 2½ ins. diam., over cross (X) cut in solid sandstone, and in a mound of stone, 4 ft. base to top, with brass cap mkd.
	T20S R13E S29 | S28 W C 1961
	Thence by triangulation.
34.20	S. rim of Spring Canyon, ledge, bears E. and W.; desc. abruptly abo 640 ft. over broken, ledgy N. slope.
40.00	Point for the ¼ sec. cor. of secs. 28 and 29, falls on ledgy N. slope and cannot be perpetuated.
49.50	Spring Canyon, drains E.; asc. about 840 ft. over broken, ledgy S. slope.
67.40	N. rim of Spring Canyon, ledge, bears N. 80° W. and S. 80° E. End triangulation, thence desc. 20 ft. along gentle E. slope.
80.00	Point for the cor. of secs. 20, 21, 28 and 29.

Chains

Set an iron post, 30 ins. long, 2½ ins. diam., on solid sandstone, and in a mound of stone, 4½ ft. base to top, with brass cap mkd.

T20S R13E
S20 | S21
S29 | S28
1961

Land, mountainous, broken.
Soil, sandstone, rocky, loamy clay.
Timber, scattered scrub pinon and juniper.

N. 0° 03' W., bet. secs. 20 and 21.

Over rolling desert land through scattered timber.

Desc. 45 ft. over gentle NE. slope.

12.10 S. rim of Nates Canyon, bears irregularly E. and W.; desc. 130 ft. over broken NW. slope.

19.70 Wash, 80 lks. wide, 3 ft. deep, in Nates Canyon, drains NE.; asc. 65 ft. over S. slope. Leave timber.

27.00 Enter timber.

31.40 Small spur, slopes SE.; asc. 10 ft. along gentle E. slope.

40.00 Point for the ¼ sec. cor. of secs. 20 and 21.

Set an iron post, 30 ins. long, 2½ ins. diam., 12 ins. in the ground and in a mound of stone, 3 ft. base to top, with brass cap mkd.

T20S R13E
¼
S20 | S21
1961

Cor. is set on gentle E. slope of spur, slopes E.

Desc. 65 ft. over gently rolling NE. slope.

73.60 Bottom of descent, drains E.; asc. 55 ft. over SE. slope.

80.00 Point for the cor. of secs. 16, 17, 20 and 21.

On a sandstone ridge, bears N. 70° E. and S. 70° W.

Set an iron post, 15 ins. long, 1 in. diam., drilled 7 ins. in solid sandstone and in a collar of stone, with brass cap mkd.

T20S R13E
S17 | S16
S20 | S21
1961

Land, rolling desert.
Soil, loamy clay.
Timber, widely scattered pinon and juniper.

N. 0° 03' W., bet. secs. 16 and 17.

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GPO 896619

Chains	
	Over broken desert land through scattered timber.
	Desc. 95 ft. over broken NW. slope.
10.00	Wash, 30 lks. wide, 4 ft. deep, drains E.; asc. 20 ft. over S. s
15.10	Spur, slopes SE., thence along E. slope.
21.50	Base of steep ascent, bears E. and W.; asc. abruptly 120 ft. over ledges on S. slope.
24.00	Top of steep ascent, bears irregularly E. and W., thence asc. 5 ft. over gentle S. slope.
31.70	Ridge, bears S. 75° W. and E.; desc. 85 ft. over broken N. slope.
40.00	Point for the ¼ sec. cor. of secs. 16 and 17, falls on boulder whe cor. cannot be perpetuated.
40.10	Point selected for the witness ¼ sec. cor. of secs. 16 and 17.
	Set an iron post, 30 ins. long, 2½ ins. diam., over cross (X) cut i solid sandstone, and in a mound of stone, 4 ft. base to top, with brass cap mkd.
	T20S R13E ¼ S17 | S16 W C 1961
	By triangulation, desc. abruptly about 680 ft. over steep, ledgy N. slope.
50.00	Fork, of Cottonwood Wash, drains E.; asc. about 320 ft. over ledgy S. slope.
57.00	Spur, slopes E., desc. about 320 ft. over ledgy N. slope.
66.00	Cottonwood Wash, drains E.; asc. about 640 ft. over broken, ledgy S slope.
79.30	End triangulation.
80.00	Point for the cor. of secs. 8, 9, 16 and 17.
	On a sandstone ridge, bears E. and W.
	Set an iron post, 30 ins. long, 2½ ins. diam., 4 ins. in the ground to bedrock, and in a mound of stone, 3½ ft. base to top, with brass cap mkd.
	T20S R13E S 8 | S 9 S17 | S16 1961
	Land, broken. Soil, rocky, loamy clay, exposed sandstone. Timber, scattered pinon and juniper.
	East, bet. secs. 9 and 16.

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Survey of a Portion of the Subdivision of T. 20 S., R. 13 E.

Chains	
	Over broken land through scattered timber.
	Desc. 70 ft. along N. slope of ridge.
10.60	Ledge, bears S. and curves NW., thence by triangulation; desc. abruptly about 200 ft. over broken, ledgy NE. slope.
13.50	Draw, drains N.; asc. abruptly about 180 ft. over broken NW. slope.
19.00	Ledge, bears NE. and SW., thence along N. slope.
21.60	Ridge, bears SW. and SE.; desc. 90 ft. over NE. slope.
30.00	Ledge, bears N. and S.; desc. 360 ft. over broken, ledgy E. slope.
39.87	Point for the ¼ sec. cor. of secs. 9 and 16.
	Set an iron post, 30 ins. long, 2½ ins. diam., 4 ins. in the ground to bedrock, and in a mound of stone, 4 ft. base to top, with brass cap mkd.
	T20S R13E ¼ S 9 S16 1961
	Cor. set on E. slope, 40 ft. above wash.
41.00	Wash, drains irregularly SE. to Cottonwood Wash; asc. 80 ft. over SW. slope.
54.00	Low spur, slopes S.; desc. 40 ft. over SE. slope.
57.00	Head of draw, drains S.; asc. 120 ft. over broken SW. slope.
64.80	Spur, slopes S. from NW.; desc. 160 ft. over broken E. slope.
70.00	Wash, drains S.; asc. 120 ft. over broken SW. slope.
78.40	Ridge, bears NW. and curves SW.; desc. 40 ft. over NE. slope.
79.74	Point for the cor. of secs. 9 and 16, S. 0° 02' E. of the SW. cor. of sec. 10.
	Set an iron post, 30 ins. long, 2½ ins. diam., 6 ins. in the ground and in a mound of stone, 4 ft. base to top, with brass cap mkd.
	T20S R13E S 9 | S15 S16 | 1961
	From this cor., the original cor. of secs. 9, 10, 15 and 16, bears N. 0° 02' W., 0.90 chs. dist., and is monumented with a 2 in. iron post, set, mkd. and witnessed as described in the official record. This cor. now functions as the cor. of secs. 10 and 15 only, and was remarked:
	T20S R13E S 9 | S10 S15 1942

U. S. GOVERNMENT PRINTING OFFICE 16—88320-2 GPO 896619

242

of

Chains	
	Land, broken. Soil, rocky, loam, exposed sandstone. Timber, scattered pinon and juniper.
	From cor. of secs. 9 and 16.
	S. 0° 02' E. bet. secs. 15 and 16.
	Over broken land through scattered timber.
	Asc. 10 ft. over NE. slope.
0.40	Ridge, bears NW. and S. 15° W.; asc. 50 ft. along E. slope.
16.30	Draw, drains N. 80° E.; asc. 70 ft. over N. slope.
21.00	Spur, slopes E.; desc. 40 ft. over S. slope.
23.90	Draw, drains E.; asc. 80 ft. over NE. slope.
34.10	Small spur, slopes N. 80° E.; desc. 10 ft. over SE. slope.
39.80	Point selected for the witness ¼ sec. cor. of secs. 15 and 16.
	Set an iron post, 30 ins. long, 2½ ins. diam., 6 ins. in the g and in a mound of stone, 3½ ft. base to top, with brass cap mkd. T20S R13E ¼ S16 S15 W C 1961
	Thence by triangulation, desc. about 480 ft. over broken, ledgy S. slope.
40.00	Point for the ¼ sec. cor. of secs. 15 and 16, falls on small ledge and cannot be perpetuated.
47.70	Cottonwood Wash, drains E.; asc. about 320 ft. over broken N. slo
58.00	Spur, slopes E.; desc. about 40 ft. over SE. slope.
59.50	Small draw, drains E.; asc. about 80 ft. over NE. slope.
62.00	Point of spur, slopes SE.; desc. about 160 ft. over broken SE. sl
65.50	Draw, drains SE.; asc. about 40 ft. over NE. slope.
69.00	Low spur, slopes NE.; desc. about 10 ft. along E. slope.
74.50	Wash, drains NE.; asc. about 140 ft. over broken, ledgy N. slope.
80.00	Point for the cor. of secs. 15, 16, 21 and 22, falls on ledgy N. slope and cannot be perpetuated.
	Therefore, at a point S. 0° 02' E., 1.80 chs. dist.
	Set an iron post, 12 ins. long, 1 in. diam., drilled 4 ins. in so sandstone, and in a mound of stone, 2 ft. base to top, with brass cap mkd. T20S R13E S16 S15 S21 S22 C

243

3 E.

Chains	
	Land, broken. Soil, rocky loam, exposed sandstone. Timber, scattered pinon and juniper.
	From true point for cor. of secs. 15, 16, 21 and 22, from which its witness cor. bears S. 0° 02' E., 1.80 chs. dist.
	S. 89° 58' W., bet. secs. 16 and 21.
	Over broken land through scattered timber.
	By triangulation, desc. about 150 ft. along broken N. slope.
3.50	Wash, drains NE.; asc. about 240 ft. over ledgy E. slope.
8.00	Point of spur, slopes S.; desc. about 80 ft. over SW. slope.
10.50	Head of draw, drains S.; asc. about 160 ft. over broken SE. slope.
20.50	Spur, slopes N. 85° E., end triangulation; thence asc. 15 ft. over gentle E. slope.
29.90	Top of ascent, curves NE. and SE.; desc. abruptly 80 ft. over broken SW. slope.
39.85	Point for the ¼ sec. cor. of secs. 16 and 21 falls on steep bank of wash, and cannot be perpetuated.
40.00	Wash, drains N.; asc. along N. slope.
40.32	Point selected for the witness ¼ sec. cor. of secs. 16 and 21.
	Set an iron post, 15 ins. long, 1 in. diam., drilled 7 ins. in solid sandstone, with brass cap mkd.
	T20S. R13E ¼ S16/S21 → WC 1961
	End triangulation.
	Raise a mound of stone, 4 ft. base, 2 ft. high, W. of cor.
	Desc. 40 ft. over NW. slope.
44.00	Draw, drains NE.; asc. 80 ft. over broken E. slope.
49.00	Spur, slopes NE.; desc. 40 ft. over broken NW. slope.
53.00	Draw, drains NE.; asc. 240 ft. over broken E. slope.
61.30	E. rim of small butte, curves NW. and SW., thence along top.
69.30	W. rim of same butte, curves NE. and SE.; desc. abruptly 170 ft. over broken W. slope.
79.70	The cor. of secs. 16, 17, 20 and 21.
	Land, broken. Soil, rocky loam, exposed sandstone. Timber, scattered pinon and juniper.

U. S. GOVERNMENT PRINTING OFFICE GPO 896619

Chains	
	From the true point for the standard cor. of secs. 31 and 32 on S. bdy. of the Tp., from which, its witness cor. bears west 2.00 dist.
	N. 0° 03' W., bet. secs. 31 and 32.
	Over rolling desert land through scattered timber.
	Desc. 140 ft. over rolling NE. slope.
22.40	Wash, 40 lks. wide, 5 ft. deep, drains E. about 2.50 chs. thence asc. 190 ft. over S. slope.
40.00	Point for the ¼ sec. cor. of secs. 31 and 32.
	Set an iron post, 30 ins. long, 2½ ins. diam., 8 ins. in the gr and in a mound of stone, 4 ft. base to top, with brass cap mkd.
	T20S R13E ¼ S31 | S32 1961
	Thence by triangulation, asc. about 240 ft. over steep, talus S. slope.
45.50	Base of ledges, bears E. and W.; asc. abruptly about 1,000 ft. ove sheer sandstone ledges facing S.
55.00	Top of ledge, rim of small mesa, bears irregularly E. and W., then over top.
57.38	End on triangulation, beginning of another.
58.60	Rim of same mesa, ledge, 40 ft. high, bears SE. and curves W.; des abruptly about 220 ft. over ledgy NE. slope.
67.00	Draw, drains SE.; asc. abruptly about 180 ft. over ledgy SW. slope.
72.00	Rim of same mesa, ledge, bears SE. and curves W., thence over top.
74.70	End triangulation.
76.20	Rim of same mesa, bears SE. and N.; desc. 25 ft. along ledges on E. slope.
80.00	Point for the cor. of secs. 29, 30, 31 and 32 falls on ledge facing E. and cannot be perpetuated.
	Therefore;
	At a point N. 0° 03' W., 1.52 chs. dist., set an iron post, 30 ins. long, 2½ ins. diam., 4 ins. in the ground to bedrock, and in a of stone, 3½ ft. base to top, with brass cap mkd.
	T20S R13E S30 | S29 S31 | S32 WC 1961
	Land, rolling desert S. portion; broken N. portion. Soil, rocky, clay S. portion; sandstone N. portion. Timber, widely scattered scrub juniper and pinon.

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[illegible] of a Portion of the Subdivision of T. 20 S. R. 13 E.

Chains	
	From the cor. of secs. 28, 29, 32 and 33.
	S. 89° 56' W., bet. secs. 29 and 32.
	Over broken land, through scattered timber.
	Asc. 10 ft. along N. slope.
7.70	Top of ascent, slopes N.; desc. 40 ft. over NW. slope.
13.10	Draw, drains NE.; asc. 105 ft. over NE. slope.
23.50	Top of ascent, slopes N.; desc. 25 ft. over NW. slope.
39.98	Point for the ¼ sec. cor. of secs. 29 and 32.
	Set an iron post, 30 ins. long, 2½ ins. diam., 4 ins. in the ground to bedrock, and in a mound of stone, 4 ft. base to top, with brass cap mkd.
	T20S R13E ¼ S29/S32 1961
	Cor. set at base of overhanging ledge, 10 ft. high, bears E. and W.
	Continue ascent over NE. slope.
45.10	Spur, slopes NE., thence by triangulation, desc. about 40 ft. over NW. slope.
48.50	Draw, drains NE.; asc. about 120 ft. along broken S. slope.
57.50	Same draw, drains irregularly E.; asc. about 880 ft. over steep, broken E. slope.
79.96	True point for the cor. of secs. 29, 30, 31 and 32, from which its witness cor. bears N. 0° 03' W. 1.52 chs. dist.
	Land, broken. Soil, rocky loam, exposed sandstone. Timber, scattered pinon and juniper.

General Description

The south and west portion of Township 20 South, Range 13 East, lies in the San Rafael Swell, and is broken, mountainous land, with deep canyons and washes, and broken sandstone ridges and spurs. The timber is scrub pinon and juniper, with scattered brush undergrowth. The soil is rocky loam and loamy clay, with exposed sandstone.

The general drainage is in a southeasterly direction to the San Rafael River, just south of the township. No roads or permanent sources of water were noted in this portion of the township. The elevation varies from 4,700 ft. above sea level in the southwest cor. to 6,000 ft. above sea level in the central portion.

U. S. GOVERNMENT PRINTING OFFICE 16—28530-2 GPO 886619

4-680
1950)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FIELD ASSISTANTS

NAMES	CAPACITY
[illegible]	Transitman
[illegible]	Chainman
[illegible]	Chainman
[illegible]	Flagman
[illegible] Pratt	Cornerman

16—[illegible]-3

CERTIFICATE OF CADASTRAL ENGINEER

I, Craig P. Sylvester, HEREBY CERTIFY upon honor that, pursuance of special instructions bearing date of the 23rd day of and supplemental special instructions dated the 31st day of May, I have [redacted] the s[redacted] o[redacted]

.....

.....

of the Salt Lake Meridian, in the State of Utah, which represented in the foregoing field notes as having been executed [redacted] under my direction; and said survey has been made in strict conformity with said instructions, the Manual of Instructions for Survey of the Public Lands of the United States, and in the specific manner described in the field notes.

July 26, 1942

Salt Lake City, Utah

C[redacted] P[redacted]

CERTIFICATE OF APPROVAL

BUREAU OF LAND MANAGEMENT,

Washington, D. C., DEC 4 1962, *19*

The foregoing field notes of the survey of a [redacted] Standar[redacted]

.....

executed by Craig P. Sylvester - Cadastral Surveyor.
having been critically examined and found correct, are hereby approved.

E. T. Lemmon

Chief, Division of [redacted]ineering

I CERTIFY that the foregoing transcript of the field [redacted] surveys in .....[redacted], is [redacted] of the original field notes.

Chief, Division of Cadastral Engineering

U. S. GOVERNMENT PRINTING OFFICE 16—54004-2

4—679 1948)
DEPT OF THE INTERIOR
BUREAU OF LAND MGMT

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

JAN 2 9 10 AM

ORIGINAL

RECEIVED
STATE & LAND OFFICE
SALT LAKE CITY, UTAH

FIELD NOTES

OF THE

SURVEY

OF THE SOUTH BOUNDARY,

THE EAST BOUNDARY

AND

A PORTION OF THE SUBDIVISIONAL LINES

OF

TOWNSHIP 20½ SOUTH, RANGE 13 EAST

Of the SALT LAKE *Meridian,*

the State of UTAH

EXECUTED BY

Fred R. Chappell, Cadastral Surveyor

Glen B. Hatch, Cadastral Surveyor

Under the supervision of Craig P. Sylvester, Cadastral Surveyor

nder special instructions dated June 29, *19*55, *which provided*

r the surveys included under Group No. 361, *approved* July 13, 1955

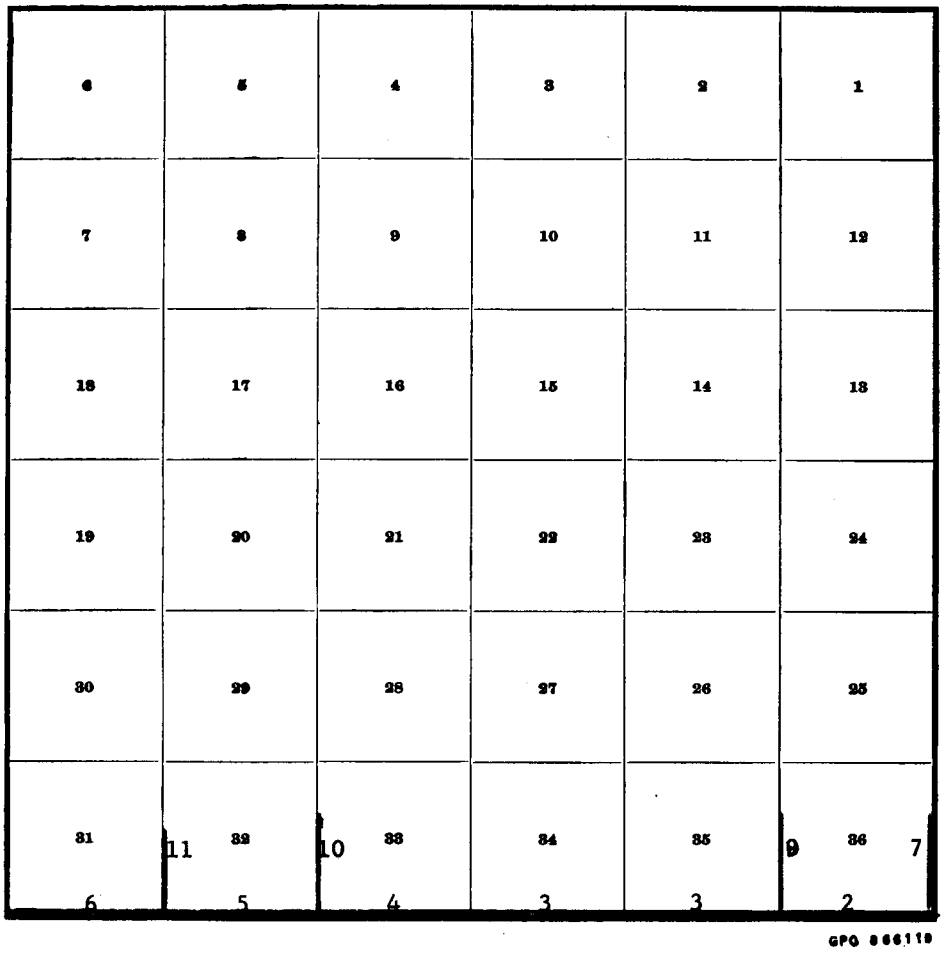
nd assignment instructions dated April 25, *19*61

Survey commenced June 30, *19*61

Survey completed July 17, *19*61

INDEX DIAGRAM

Township 20½ SOUTH, *Range* 13 EAST



GPO 866118

Lines surveyed by Fred R. Chappell ———

Lines surveyed by Glen B. Hatch ———

South

Chains

The west boundary was surveyed by Andrew Nelson and Phil D. Smith in 1955. A portion of the north boundary (Fourth Standard Parallel South), was surveyed by J. C. Clark in 1933. A portion of the north boundary was surveyed by C. F. Moore in 1933. A portion of the north boundary was surveyed concurrently by Fred R. Chappell in 1961.

The following field notes are those of the south boundary, the east boundary and a portion of the subdivisional lines of Township 20½ South, Range 13 East, deemed sufficient in extent to facilitate development of the natural resources and mark the boundaries of those sections that normally are considered state school sections.

The survey was executed with W. & L. E. Gurley Solar Transits Nos. 580158 and 541327 constructed in accordance with the standard instrumental specifications of the Bureau of Land Management. The instrument was in good condition prior to the beginning of the survey and was maintained in proper adjustment throughout the progress of this survey.

Corners on east-west lines were set on the true latitudinal curve. Lines connecting previously established corners were run by random and true method, but for simplification of the record the random lines are omitted from the field notes. In accordance with the intent of the special instructions, all subdivisional corners established are calculated to be at the position they would occupy if the entire township were subdivided.

Measurements herein contained were made with a narrow steel tape, 8 chains in length, graduated every link for the first 100 links and thereafter at intervals of 10 links. The tape was tested by comparison with a one chain standard steel tape and found to be correct. Measurements were made on the slope with the vertical angle of each interval ascertained by a clinometer in good adjustment; horizontal equivalents alone are entered in the field notes. All lines of this survey were run by direct method where the lines were accessible; lines inaccessible were run by traverse or triangulation methods. Distances to topography on lines run by traverse or triangulation are approximately as scaled from U. S. G. S. topographic sheets. The details of such traverses or triangulations have been thoroughly checked and verified, and in order to simplify the record the diagrams and reductions are omitted from these field notes.

The direction of the lines of this survey were determined by reference to true meridians established on line by altitude observations on the sun. The lines were carried forward by sustained angulation being supplemented by other numerous altitude observations on the sun taken throughout the progress of the survey.

The geographic position for the southeast corner of the township is at latitude 39° 01' 24.93" N. and longitude 110° 26' 00.04" W. computed from U. S. G. S. triangulation station "Ernie", located in section 36, T. 23 S., R. 12 E.

The magnetic declination was read at a number of stations throughout the township and the average of these readings was found to be 16° east.

Survey of the South Boundary of Township 20½ South, Range 13 East

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Beginning at the cor. of Tps. 20½ and 21 S., R. 13 E., monumented with a 2½ in. iron post, set, mkd. and witnessed as described in the 1961 field notes of the east boundary of T. 21 S., R. 13 E.

of the S. . of T. S. R. 13 E.

Chains	
	West, bet. secs. 1 and 36.
	Over rough, broken land of San Rafael Reef.
	Over level shelf of cove.
2.50	Ledge, about 200 ft. high, curves NW. and SW. By triangulation, desc. about 720 ft. over broken, ledgy NW. to W. slopes. Topography scaled from U. S. G. S. topographic sheets.
37.00	Spring Canyon, 30 lks. wide, 3 ft. deep, drains irregularly S., asc. 10 ft. over E. slope.
40.00	Point for the ¼ sec. cor. of secs. 1 and 36, falls on boulder and cannot be perpetuated.
40.10	Point selected for the witness ¼ sec. cor. of secs. 1 and 36.
	Set an iron post, 30 ins. long, 2½ ins. diam., 6 ins. in the ground and in a mound of stone, 4 ft. base to top, with brass cap mkd. T20½S R13E ¼ S36 W S 1 C T21S 1961
	End triangulation.
	Cor. set on E. slope among large boulders.
	By triangulation, asc. about 680 ft. over broken, ledgy E. to SE. slopes. Topography scaled from U. S. G. S. topographic sheets.
59.10	Sandstone spur, slopes S. End triangulation; thence desc. 20 ft. along broken S. slope.
65.30	Sandstone spur, slopes SW.; by triangulation, desc. about 600 ft. over broken, ledgy SW. slope. Topography scaled from U. S. G. S. topographic sheets.
79.50	End triangulation.
79.90	Point selected for the witness cor. of secs. 1, 2, 35 and 36.
	Set an iron post, 30 ins. long, 2½ ins. diam., 8 ins. in the ground to bedrock, and in a mound of stone, 4 ft. base to top, with brass cap mkd. T20½S R13E S35 S36 S 2 S 1 W C T21S 1961
80.00	Point for the cor. of secs. 1, 2, 35 and 36 falls on boulder where cor. cannot be perpetuated.
	Land, rough, broken. Soil, rocky sand, with considerable exposed sandstone. No timber.

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Chains	
	West, bet. secs. 2 and 35.
	Over rolling, broken desert land through scattered brush.
	Desc. 90 ft. over rocky SW. slope.
18.00	Wash, 40 lks. wide, 2 ft. deep, drains S., 4.00 chs. to San Rafael River, desc. 50 ft. over rolling land.
33.00	Wash, 30 lks. wide, 1 ft. deep, drains SE.
34.20	Wash, 20 lks. wide, 1 ft. deep, drains SE.
40.00	Point for the ¼ sec. cor. of secs. 2 and 35.
	Set an iron post, 30 ins. long, 2½ ins. diam., 12 ins. in the ground and in a mound of stone, 3 ft. base to top, with brass cap mkd.
	T20½S R13E ¼ S35 S 2 T21S 1961
	Asc. 120 ft. over broken, rolling desert land.
58.00	Spur, slopes S. 10° E. 2.50 chs. to end.
60.00	Wash, 40 lks. wide, 2 ft. deep, drains S. 10° W.
62.50	Spur, slopes S. 2.00 chs. to end.
64.00	Wash, 10 lks. wide, 2 ft. deep, drains S. 15° E.
66.50	Spur, slopes S. 1.50 chs. to end.
69.50	Wash, 1.50 chs. wide, 2 ft. deep, drains S. 70° E.
80.00	Point for the cor. of secs. 2, 3, 34 and 35.
	Set an iron post, 30 ins. long, 2½ ins. diam., 10 ins. in the ground and in a mound of stone, 3 ft. base to top, with brass cap mkd.
	T20½S R13E S34 | S35 S 3 | S 2 T21S 1961
	Land, rolling, broken desert. Soil, rocky, loamy clay. Timber, none. Undergrowth, scattered shadscale and brush.
	West, bet. secs. 3 and 34.
	Over rolling desert land through scattered brush and shadscale.
	By triangulation, desc. about 50 ft. over ledgy shale W. slope. Topography scaled from U. S. G. S. topographic sheets.
12.50	Wash, 3.00 chs. wide, 50 ft. deep, drains irregularly S. 45° E., asc. about 160 ft. over E. slope.

Chains	
23.10	End triangulation; thence over SE. to S. slopes.
40.00	Point for the ¼ sec. cor. of secs. 3 and 34. Set an iron post, 30 ins. long, 2½ ins. diam., 12 ins. in the ground and in a mound of stone, 3 ft. base to top, with brass cap mkd. T20½S R13E ¼ S34/S 3 T21S 1961 Asc. 215 ft. over rolling desert land.
52.50	Head of wash, drains SE.
61.50	Spur, slopes S. 30° E. about 6.00 chs. to end; thence over a series of small spurs sloping S., 1.00 to 4.00 chs.
80.00	Point for the cor. of secs. 3, 4, 33 and 34. Set an iron post, 30 ins. long, 2½ ins. diam., 22 ins. in the ground with brass cap mkd. T20½S R13E S33 | S34 S 4 | S 3 T21S 1961 No accessories available. Cor. set on SE. slope of spur, sloping S. about 1.00 to end. Land, rolling desert. Soil, shale and clay loam. Undergrowth, scattered brush and shadscale.
	West, bet. secs. 4 and 33. Over broken land. By triangulation, asc. abruptly about 720 ft. over broken, ledgy SE. slope. Topography scaled from U. S. G. S. topographic sheets.
32.20	Top of ascent on ledge, 60 lks. wide, below sandstone pinnacle, bea. NE. and NW. End triangulation; thence desc. 125 ft. over broken, ledgy SW. slope.
37.77	Point selected for the witness ¼ sec. cor. of secs. 4 and 33. Set an iron post, 30 ins. long, 2½ ins. diam., on solid sandstone, and in a mound of stone, 4 ft. base to top, with brass cap mkd. T20½S R13E ¼ S33 WC/S 4 T21S 1961

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255

Chains	
	Thence by triangulation, desc. about 480 ft. over rough, broken, ledgy SW. slopes. Topography scaled from U. S. G. S. topographic sheets.
40.00	Point for the ¼ sec. cor. of secs. 4 and 33 falls on broken ledges and cannot be perpetuated.
60.00	Wash, drains S. 30° W., asc. 30 ft. over broken desert land.
78.40	Top of ascent, slopes N., end triangulation; thence desc. 25 ft. over NW. slope.
80.00	Point for the cor. of secs. 4, 5, 32 and 33 falls in wash, 20 lks. wide, 4 ft. deep, drains SW., and cannot be perpetuated.
	Land, broken desert. Soil, rocky, loamy clay with exposed sandstone. Timber, none.
	West, bet. secs. 5 and 32.
	Over broken desert land through scattered brush.
0.75	Point selected for the witness cor. of secs. 4, 5, 32 and 33.
	Set an iron post, 30 ins. long, 2½ ins., diam., 12 ins. in the ground and in a mound of stone, 3 ft. base to top, with brass cap mkd.
	T20½S R13E S32 | S33 → WC S 5 | S 4 T21S 1961
	Cor. set on small spur, slopes SW.
	Thence by triangulation along S. slope. Topography scaled from U. S. G. S. topographic sheets.
5.00	Spur, slopes SW., desc. about 20 ft. over W. slope.
8.00	Wash, drains S. from NE., asc. about 40 ft. over SE. slope.
13.50	Spur, slopes S., desc. about 20 ft. over SW. slope.
16.30	Wash, drains irregularly S., asc. about 100 ft. over SE. slope.
22.50	Spur, slopes S. 2.00 chs. to end. End triangulation; thence desc. 190 ft. over ledges, bears N. 30° W. and S. 10° E., on SW. slope.
30.40	Wash, 30 lks. wide, 3 ft. deep, drains S. 2.00 chs., thence SE., asc. 50 ft. over E. slope.
40.00	Point for the ¼ sec. cor. of secs. 5 and 32.
	Set an iron post, 30 ins. long, 2½ ins. diam., 12 ins. in the ground, and in a mound of stone, 4 ft. base to top, with brass cap mkd.
	T20½S R13E ¼ S32 S 5 T21S 1961

256

Chains	
	Asc. 40 ft. along S. slope.
54.10	E. rim of small canyon, bears NW. and SE., desc. 60 ft. over SW. slope.
55.60	Wash in canyon bottom, 1.50 chs. wide, 2½ ft. deep, drains SE., asc. 80 ft. over broken NE. slope.
64.60	W. rim of small canyon, spur, slopes NE., desc. 50 ft. along N. slope on S. rim of canyon.
72.20	Bottom of descent, drains NW., asc. 65 ft. over broken NE. slope.
80.00	Point for the cor. of secs. 5, 6, 31 and 32.
	Set an iron post, 30 ins. long, 2½ ins. in diam., on solid stone, and in a mound of stone, 4 ft. base to top, with brass cap mkd.
	T20½S R13E S31 | S32 S 6 | S 5 T21S 1961
	Cor. set on ledge, 20 ft. high, bears NW. and SE.
	Land, broken, rolling desert. Soil, rocky, loamy clay. Timber, none.
	West, bet. secs. 6 and 31.
	Over rolling, broken desert land through widely scattered brush and timber.
	Asc. 35 ft. over gentle NE. slope.
12.25	E. rim of wash, bears NE. and SW., desc. 40 ft. over NW. slope.
14.50	Wash, drains N. 10° E., asc. 55 ft. over E. slope.
16.55	W. rim of wash, bears N. and S., asc. 25 ft. along rolling N. slope.
31.00	Wash, drains N.
40.00	Point for the ¼ sec. cor. of secs. 6 and 31.
	Set an iron post, 30 ins. long, 2½ ins. diam., 20 ins. in the ground and in a collar of stone, with brass cap mkd.
	T20½S R13E ¼ S31 S 6 T21S 1961
	Asc. 5 ft. along gentle N. slope.
47.20	Wash, 40 lks. wide, 2 ft. deep, drains NE.
52.00	Wash, 20 lks. wide, 1 ft. deep, drains NE., asc. 70 ft. over gentle NE. slope.

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Survey of the S. Bdy. of T. 20½ S., R. 13 E.

Chains	
56.40	Wash, 15 lks. wide, 2½ ft. deep, drains N. 10° E.
60.10	Wash, 20 lks. wide, 1 ft. deep, drains N. 20° E. 1.00 ch., thence N. 60° E.
63.90	Wash, 20 lks. wide, 1 ft. deep, drains N. 20° E.
71.90	Spur, slopes N. 50° E., asc. 70 ft. over steep E. slope.
76.99	Intersect the W. bdy. of the Tp.
	Point for the closing cor. of Tps. 20½ and 21 S., R. 13 E.
	Set an iron post, 30 ins. long, 2½ ins. diam., 12 ins. in the ground and in a mound of stone, 3 ft. base to top, with brass cap mkd.

T20½S
R12E R13E
S1 | S31 CC
S 6
T21S
1961

From this cor., the 1/16 sec. cor. of sec. 1, T. 21 S., R. 12 E., bears N., 10.38 chs. dist., monumented with a 2½ in. iron post, set, mkd. and witnessed as described in the official record.

Land, rolling, broken desert.
Soil, rocky, loamy clay.
Timber, widely scattered scrub pinon and juniper.

Survey of the East Boundary of Township 20½ South, Range 13 East

From the cor. of Tps. 20½ and 21 S., R. 13 E., monumented with a 2½ in. iron post, set, mkd. and witnessed as described in the 1961 field notes of the E. bdy. of T. 21 S., R. 13 E.

North, along the E. bdy. of sec. 36, and establishment thereon of a 1/16 sec. cor. pertaining to T. 21 S., R. 14 E., only.

Over broken sandstone through widely scattered scrub timber.

By triangulation, over nearly level land of shelf in cove. Topography scaled from U. S. G. S. topographic sheets.

12.00	Base of steep, broken ascent, bears NW. and SE., asc. abruptly about 280 ft. over broken, ledgy SW. slope.
17.40	Top of ledge, about 150 ft. high, bears NW. and SE. End triangulation. Asc. 20 ft. over sandstone knobs.
19.40	Top of ascent, on W. slope of knob, desc. 5 ft. along W. slope.
20.00	Point for the 1/16 sec. cor. of sec. 6, T. 21 S., R. 14 E., 100.00 chs. northing from the SW. cor. of sec. 6, T. 21 S., R. 14 E.
	Set an iron post, 30 ins. long, 2½ ins. diam., on solid sandstone, and in a mound of stone, 4 ft. base to top, with brass cap mkd.

T20½S T21S
R13E | R14E
1/16
S6
100
1961

Chains	
	Asc. abruptly 40 ft. over S. slope of sandstone knob.
25.20	Top of knob, desc. 5 ft. along top.
29.40	Ledge, 50 ft. high, bears NW. and SE., desc. 280 ft. over broken, ledgy NE. slope.
35.20	Top of ledge, 15 ft. high, bears NW. and SE., continue descent.
39.80	Wash, 40 lks. wide, 8 ft. deep, drains E., asc. abruptly 115 ft. over near vertical ledge facing S.
40.00	Point for the ¼ sec. cor. of sec. 36, falls on inaccessible ledge, and cannot be monumented.
40.25	Point selected for the witness ¼ sec. cor. of sec. 36, T. 20½ S., R. 13 E., only.
	Set an iron post, 12 ins. long, 1 in. diam., drilled 6 ins. in sandstone, with brass cap mkd.

T20½S T21S
R13E R14E
¼
S36
W C
1961

	No accessories available.
	Cor. set on top of ledge, 100 ft. high, bears NW. and SE.
	Asc. 10 ft. over gentle S. slope.
43.00	Top of ascent, bears E. and W., desc. 10 ft. over gentle N. slope.
45.86	Intersect the N. bdy. of the Tp. (Fourth Standard Parallel South.)
	Point for the closing cor. of Tps. 20½ and 21 S., Rs. 13 and 14 E.
	Set an iron post 30 ins. long, 2½ ins. diam., on solid sandstone, and in a mound of stone, 4½ ft. base to top, with brass cap mkd.

T20S R13E
S35
S36 | S6
T20½S | T21S
R13E | R14E
C C
1961

	From this cor., the standard cor. of secs. 34 and 35, T. 20 S., R. 13 E., bears west 18.73 chs. dist, monumented with a 2 in. iron post, set, mkd. and witnessed as described in the official record.
	Land, broken.
	Soil, sandstone.
	Timber, widely scattered scrub pinon and juniper.

Chains	
	Survey of a Portion of the Subdivision of Township 20½ South, Range 13 East
	From the true point for cor. of secs. 1, 2, 35 and 36 on the S. bdy. of the Tp., from which its witness cor. bears east 0.10 ch. dist.
	N. 0° 01' W., bet. secs. 35 and 36.
	Over broken land.
	By triangulation, asc. about 520 ft. over steep, rocky, talus SW. slope. Topography scaled from U. S. G. S. topographic sheets.
17.00	Base of ledge, bears NW. and SE., asc. abruptly about 200 ft. over sheer sandstone ledge facing SW.
17.60	Top of ledge, bears NW. and SE. End triangulation, asc. 75 ft. over solid sandstone on SW. slope.
23.10	Top of ascent, ledge, 20 ft. high, bears E. and W., desc. 100 ft. over ledgy N. slope.
29.10	Ledge, bears SE. and curves NE., desc. abruptly about 100 ft. over ledgy NE. slope of cove.
32.00	Bottom of descent, drains E., thence NE., asc. abruptly about 100 ft. over ledgy SE. slope.
35.20	Top of ledge, bears NE. and curves SE., asc. 35 ft. over SE. slope.
36.70	Sandstone spur, projects E., ledge, about 200 ft. high, bears E. and W., thence by triangulation, desc. abruptly about 400 ft. over broken sandstone ledges on N. slope. Topography scaled from U.S.G.S. topographic sheets.
40.00	Point for the ¼ sec. cor. of secs. 35 and 36 falls on ledge facing N. and cannot be monumented.
42.76	Point selected for the witness ¼ sec. cor. of secs. 35 and 36.
	Set an iron post, 30 ins. long, 2½ ins. diam., on solid sandstone, and in a mound of stone, 4 ft. base to top, with brass cap mkd.
	T20½S R13E ¼ S35 | S36 W C 1961
	End triangulation, thence desc. 40 ft. over rocky N. slope.
43.70	Wash, drains NE., desc. 60 ft. along rocky E. slope.
45.92	Intersect the N. bdy. of the Tp. (Fourth Standard Parallel South.)
	Point for the closing cor. of secs. 35 and 36.
	Set an iron post, 30 ins. long, 2½ ins. diam., 12 ins. in the ground, and in a mound of stone, 3 ft. base to top, with brass cap mkd.
	T20S R13E S34 S35 | S36 C C T20½S 1961

Chains

From this cor., the true point for the standard cor. of secs. 33 and 34, T. 20 S., R. 13 E., bears west 18.69 chs. dist., from which its witness cor. bears W. 1.35 chs. dist., monumented with a 1 in. iron post, set, mkd. and witnessed as described in the 1961 field notes of the S. bdy. (Fourth Standard Parallel South), of T. 20 S., R. 13 E.

Land, broken.
Soil, rocky, sandy clay with considerable exposed sandstone.
Timber, none.

Point for the N. ¼ sec. cor. of sec. 36 at midpoint bet. the closing cor. of Tps. 20½ and 21 S., Rs. 13 and 14 E., and the closing cor. o secs. 35 and 36.

Set an iron post, 30 ins. long, 2½ ins. diam., on solid stone, and in a mound of stone, 4 ft. base to top, with brass cap mkd.

T20S R13E

¼ S36
T20½S
1961

From this cor., the standard ¼ sec. cor. of sec. 34, T. 20 S., R. 13 E., bears W. 18.71 chs. dist., monumented with a 2½ in. iron post, set, mkd. and witnessed as described in the 1961 field notes the S. bdy. (Fourth Standard Parallel South,) of T. 20 S., R. 13 E.

From the true point for the cor. of secs. 4, 5, 32 and 33 on the S. bdy. of the Tp., from which its witness cor. bears W. 0.75 ch. dist.

N. 0° 03' W., bet. secs. 32 and 33.

Over broken desert land of San Rafael Reef.

By triangulation, asc. about 80 ft. over S. slope. Topography scaled from U. S. G. S. topographic sheets.

3.00 Top of small bench, bears E. and W., thence over bench.

11.00 Base of steep ascent, bears NW. and SE., asc. about 360 ft. over steep SW. slope.

28.90 Spur, slopes sharply W., top of ascent; end triangulation; desc. 135 ft. along W. slope.

38.90 Small spur, slopes NW., desc. 25 ft. over steep N. slope.

39.90 Point selected for the witness ¼ sec. cor. of secs. 32 and 33.

Set an iron post, 20 ins. long, 1 in. diam., 10 ins. in the ground, and in a mound of stone, 3 ft. base to top, with brass cap mkd.

T20½S R13E

¼
W C
S32 | S33
1961

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Chains	
40.00	Point for the ¼ sec. cor. of secs. 32 and 33 falls on small shale ledge, and cannot be perpetuated. Desc. 190 ft. over steep N. slope.
45.83	Intersect the N. bdy. of the Tp. (Fourth Standard Parallel South). Point for the closing cor. of secs. 32 and 33. Set an iron post, 30 ins. long, 2½ ins. diam., 12 ins. in the ground and in a mound of stone, 3 ft. base to top, with brass cap mkd. T20S R13E S32 | S33 C C T20½S R13E 1961 From this cor., the standard closing cor. of Tp. 20 S., R. 13 E., bears W. 16.93 chs. dist., monumented with a 2½ in. iron post, set, mkd. and witnessed as described in the 1961 field notes of the S. bdy. (Fourth Standard Parallel South), of T. 20 S., R. 13 E. Land, broken desert. Soil, rocky clay. Timber, none.
	From the cor. of secs. 5, 6, 31 and 32 on the S. bdy. of the Tp. N. 0° 03' W., bet. secs. 31 and 32. Over rolling desert land through scattered juniper and brush. Desc. 75 ft. over NE. slope.
5.00	Wash, drains irregularly E., asc. 95 ft. over SW. slope.
14.80	Spur, slopes SE., desc. 35 ft. over NE. slope.
25.40	Wash, 1.50 chs. wide, 2½ ft. deep, drains S. 70° E., asc. 55 ft. over SW. slope.
35.80	Top of ascent, bears NW. and SE., desc. 15 ft. over NE. slope.
38.58	Intersect the N. bdy. of the Tp. (Fourth Standard Parallel South). Point for the closing cor. of secs. 31 and 32. Set an iron post, 30 ins. long, 2½ ins. diam., 10 ins. in the ground and in a mound of stone, 3 ft. base to top, with brass cap mkd. T20S R12E S36 S31 | S32 C C T20½S R13E 1961 From this cor., the standard cor. of secs. 35 and 36, T. 20 S., R. 12 E., bears W. 16.79 chs. dist., and is monumented with a 2 in. iron post, set, mkd. and witnessed as described in the official record.

Chains

Land, rolling desert.
Soil, sandy clay.
Timber, widely scattered scrub juniper.
Undergrowth, scattered brush and shadscale.

Point for the N. ¼ sec. cor. of sec. 32 on the N. bdy. and at mid-point bet. the closing cor. of secs. 32 and 33, and the closing cor. of secs. 31 and 32, falls in wash, and cannot be perpetuated.

At a point 0.75 chs. E., set an iron post, 30 ins. long, 2½ ins. diam., 10 ins. in the ground, and in a mound of stone, 4 ft. base to top, with brass cap mkd.

T20S
WC ¼ ←
S32
T20½S R13E
1961

From the true point for ¼ sec. cor. of sec. 32, the true point for the standard ¼ sec. cor. of sec. 36, T. 20 S., R. 12 E., bears W., 16.86 chs. dist., from which its witness cor. bears E., 0.80 chs. dist., monumented with a 1 in. iron post, set, mkd. and witnessed as described in the official record.

Point for the N. ¼ sec. cor. of sec. 31, on the N. bdy. of the Tp., of the Tp., and 40.00 chs. westing from the closing cor. of secs. 3 and 32.

Set an iron post, 30 ins. long, 2½ ins. diam., 10 ins. in the gr and in a mound of stone, 3 ft. base to top, with brass cap mkd.

T20S R12E
¼
S 31
T20½S R13E
1961

From this cor., the standard ¼ sec. cor. of sec. 35, T. 20 S., R. 12 E., bears W., 16.79 chs. dist., monumented with a 1 in. iron post, set, mkd. and witnessed as described in the official record.

General Description

Township 20½ South, Range 13 East, is located on the San Rafael Ree about 15 miles west of Green River. It is rough, broken sandstone the east portion, and broken to rolling desert in the west portion. The area is drained in a southerly direction to the San Rafael Ri

The elevation in the east portion is 4,600 ft. to 6,000 ft. above level. The West portion is about 5,000 ft. above sea level. No roads or permanent sources of water were found in the township. soil in the west portion is rocky, loamy to sandy clay, while that in the east portion is mostly sandstone.

U. S. GOVERNMENT PRINTING OFFICE 16—26520-2

4-000
(Feb., 1960)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FIELD ASSISTANTS

NAMES	CAPACITY
Gary W. Rutledge	Transitman
Gary T. Oviatt	Chainman
Wallace R. Ott	Chainman
Jerald R. Brindley	Flagman
Daniel R. Bauer	Cornerman
Rex J. Edwards	Transitman
Morris E. Blackburn	Chainman
Ferrel D. Reynolds	Chainman
Max Asay	Flagman

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CERTIFICATE OF CADASTRAL ENGINEER

I, Craig P. Sylvester, HEREBY CERTIFY upon honor that, pursuance of special instructions bearing date of the 29th day of June, 1 I have ~~surveyed~~ supervised the survey of the south boundary, the east portion of the subdivisional lines of T. 20½ S., R. 13 E.

of the Salt Lake Meridian, in the State of Utah, which represented in the foregoing field notes as having been executed by me and under my direction; and said survey has been made in strict conformity with said instructions, the Manual of Instructions for Survey of the Public Lands of the United States, and in the specific manner described in the foregc field notes.

Salt Lake City, Utah

March 16, 1962

Craig P. Sylvester, Cadastral

CERTIFICATE OF APPROVAL

BUREAU OF LAND MANAGEMENT,

Washington, D. C., DEC 4 1962, *19*

The foregoing field notes of the survey of the south boundary, the east boundary and a portion of the subdivisional lines of T. 20½ S., R. 13 E., Salt Lake Meridian, Utah,

executed by Fred R. Chappell and Glen B. Hatch - Cadastral ...rs under the supervision of Craig P. Sylvester - Cadastral Surveyor. having been critically examined and found correct, are hereby approved.

Chief, Division of Engineer

CERTIFICATE OF TRANSCRIPT

I CERTIFY that the foregoing transcript of the field notes of the above-described surveys ..., is a true copy of the original ...

Cadastral ...

U. S. GOVERNMENT PRINTING OFFICE 16—53565-3

4—679
(September 1948)

DEPT OF THE INTERIOR
BUREAU OF LAND MGM

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

JAN 2 9 10 AM ORIGINAL

FIELD NOTES

RECEIVED
STATE & LAND OFFICE
SALT LAKE CITY

OF THE

DEPENDENT RESURVEY OF THE SOUTH BOUNDARY

AND

THE SURVEY

OF THE EAST BOUNDARY

AND A

PORTION OF THE SUBDIVISIONAL LINES

OF

TOWNSHIP 21 SOUTH, RANGE 13 EAST

Of the SALT LAKE *Meridian,*

n the State of UTAH

EXECUTED BY

Fred R. Chappell, Cadastral Surveyor

Glen B. Hatch, Cadastral Surveyor

Under the supervision of Craig P. Sylvester, Cadastral Surveyor

Under special instructions dated June 29, *19*55, *which provided*

or the surveys included under Group No. 361, *approved* July 13, 1955

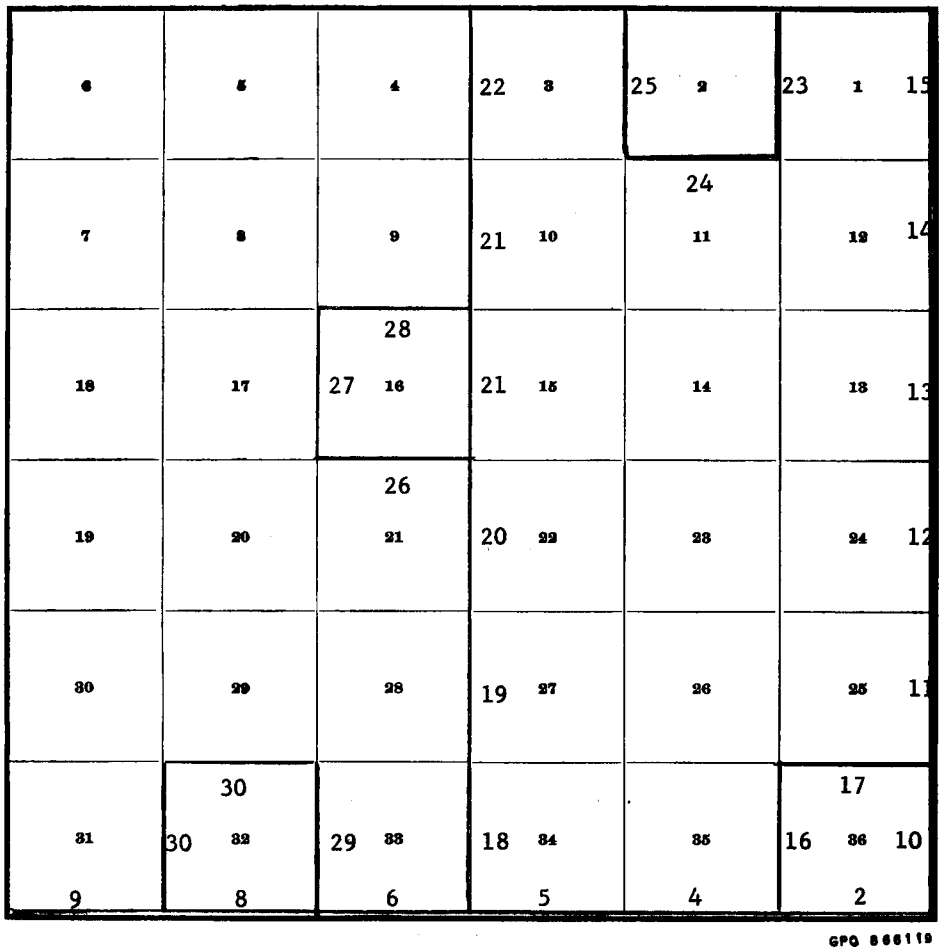
nd assignment instructions dated April 25, *19*61

Survey commenced June 23, *19*61

Survey completed July 18, *19*61

INDEX DIAGRAM

Township 21 SOUTH, *Range* 13 EAST



GPO 866119

Lines surveyed by Glen B. Hatch ———

Lines surveyed by Fred R. Chappell ———

Township 21 South, Range 13 East

Chains

The south boundary was surveyed by Miller and Clark in 1912. The west boundary was surveyed by Andrew Nelson in 1955. The north boundary was surveyed concurrently by Fred R. Chappell.

The following field notes are those of the dependent resurvey of the south boundary, and the survey of the east boundary and a portion of the subdivisional lines of Township 21 South, Range 13 East, deemed sufficient in extent to facilitate development of the natural resources and mark the boundaries of those sections that normally are considered state school sections.

Before restoring the corners, the lines of the original survey were retraced, and diligent search made for any evidence of the original corners, bearing trees, or other calls of the original field note record.

The rules of proportionate measurement were applied only after exhausting every reasonable possibility of finding direct evidence of the original corners.

The survey was executed with W. & L. E. Gurley Solar Transits Nos. 580158 and 541327 constructed in accordance with the standard instrumental specifications of the Bureau of Land Management. The instrument was in good condition prior to the beginning of the survey and was maintained in proper adjustment throughout the progress of this survey.

Corners on east-west lines were set on the true latitudinal curve. Lines connecting previously established corners were run by random and true method, but for simplification of the record the random lines are omitted from the field notes. In accordance with the intent of the special instructions, all subdivisional corners established are calculated to be at the position they would occupy if the entire township were subdivided.

Measurements herein contained were made with a narrow steel tape, 8 chains in length, graduated every link for the first 100 links and thereafter at intervals of 10 links. The tape was tested by comparison with a one chain standard steel tape and found to be correct. Measurements were made on the slope with the vertical angle of each interval ascertained by a clinometer in good adjustment; horizontal equivalents alone are entered in the field notes. All lines of this survey were run by direct method where the lines were accessible; lines inaccessible were run by traverse or triangulation methods. Distances to topography on lines run by traverse or triangulation are approximately as scaled from U. S. G. S. topographic sheets. The details of such traverses or triangulations have been thoroughly checked and verified, and in order to simplify the record the diagrams and reductions are omitted from these field notes.

The direction of the lines of this survey were determined by reference to true meridians established on line by altitude observations on the sun. The lines were carried forward by sustained angulation being supplemented by other numerous altitude observations on the sun taken throughout the progress of the survey.

The geographic position for the southeast corner of the township is at latitude 38° 56' 11.19" N. and longitude 110° 26' 00.04" W. as adjusted from traverses to U.S.G.S. triangulation station "Ernie" located in section 36, T. 23 S., R. 12 E.
The magnetic declination was read at a number of stations throughout the township and the average of these readings was found to be 16° east.

Dependent Resurvey of the S. Bdy. of T. 21 S., R. 13 E.

Chains

Dependent Resurvey of the South Boundary of Township 21 South, Range 13 East

Reestablishment of the survey executed by Miller and Clark in 1912. for alignment only with the establishment of new corners for T.21S., R.13 W. at regular intervals W. from the SE. cor. of the Tp.

Beginning at the witness cor. of Tps. 21 and 22 S., Rs. 13 and 14 E. which is monumented with a 3 in. iron post, set, mkd. and witnessed as described in the official record. Remark this cor. as a witness point.

Establish this Tp. cor. at true point according to the special instructions.

Therefore N. 89° 41' E. on record course.

10.51 True point for the cor. of Tps. 21 and 22 S., Rs. 13 and 14 E. at record course and dist.

Set an iron post 30 ins. long, 2½ ins. diam., on solid sandstone and in a mound of stone 5 ft. base to top, with brass cap mkd.

T21S
R13E R14E
S36 | S31
S 1 | S 6
T22S
1961

Note: From this Tp. cor., the ¼ sec. cor. of secs. 6 and 31, Tps. 21 and 22 S., R. 14 E., bears S. 89° 24' E., 38.57 chs. dist., and is monumented with a 1 in. iron post, set, mkd. and witnessed as described in the official record.

From this ¼ sec. cor., the cor. of secs. 5, 6, 31 and 32, Tps. 21 and 22 S., R. 14 E., bears N. 89° 56' E., 44.95 chs. dist., and is monumented with a 3 in. iron post, set, mkd. and witnessed as described in the official record.

From this same Tp. cor. the true point for the ¼ sec. cor. of sec. 6, T. 22 S., R. 14 E., bears S. 7° 01' E. 40.90 chs. dist. from which its witness cor. bears N. 4.19 chs. dist. monumented with an iron post 1 in. diam., set, mkd. and witnessed as described in the official record.

Thence

S. 89° 41' W. along the S. bdy. of sec. 36.

Over broken solid sandstone of San Rafael Reef.

Desc. abruptly 30 ft. over solid sandstone W. slope.

0.50 Solid sandstone wash, 30 lks. wide, 8 ft. deep, drains S., asc. 180 ft. over sandstone SE. slope.

10.51 The original witness cor. of Tps. 21 and 22 S., Rs. 13 and 14 E. now functions as a witness point.

N. 89° 48' W., continue same measurement.

Chains	
	By triangulation, desc. abruptly about 160 ft. over sandstone ledges on SE. slope. Topography scaled from U. S. G. S. topographic sheets.
13.50	Wash, drains SE.; asc. about 120 ft. over solid sandstone NE. slope.
23.00	Small sandstone spur, projects SE.; desc. about 40 ft. over SW. slope.
25.80	Wash, drains SE.; asc. about 760 ft. over solid sandstone E. slope.
40.00	Point for the original ¼ sec. cor. of secs. 36 not monumented.
	Set an iron post 30 ins. long, 2½ ins. in diam., over (x) cut in solid sandstone and in a mound of stone, 4½ ft. base to top, with brass cap mkd. T21S R13E ¼ S 36 T22S 1961
	Cor. set at base of ledge 15 ft. high, bears NE. and SW.
	End triangulation; continue ascent.
61.72	Intersect a 1 in. iron post, set on solid sandstone and in a mound of stone 2 ft. base, 12 ins. from top, marked as follows: ¼ S 1 1912
	Note: According to the original field note record, the ¼ sec. cor. of sec. 1, T. 22 S., R. 13 E., was not established; and by dist. and topography, from the original cor. of secs. 34 and 35, T. 21 S., R. 13 E., (the nearest established cor. to the west), this should be the witness cor. of secs. 35 and 36, recorded as being monumented with a 3 in. iron post, no evidence of any other monument found.
	This cor. now functions as an angle point only, and was remarked: AP S1 61 1912
	Thence by triangulation, desc. about 450 ft. over sandstone ledges or SW. slope. Topography scaled from U. S. G. S. topographic sheets.
65.50	Base of ledges; wash, 30 lks. wide, 8 ft. deep, drains SE.; asc. about 280 ft. over large sandstone boulders on SE. slope.
80.00	Point for the cor. of secs. 35 and 36.
	Set an iron post 30 ins. long, 2½ ins. diam. on solid sandstone and in a mound of stone, 3 ft. base to top with brass cap mkd. T21S R13E S35 | S36 S 2 T22S 1961
	End triangulation.

Resurvey of the S. Bdy. of T. 21 S., R. 13 E.

Chains	
	Cor. set on SE. side of sandstone boulder about 10x15x15 ft.
	Land, broken. Soil, solid sandstone E. portion; rocky sand W. portion. No timber.
	S. 88° 47' W., along the S. bdy. of sec. 35.
	Over broken sandstone San Rafael Reef, through widely scattered pinon and juniper.
	By traverse, asc. 40 ft. along broken S. slope. Topography scaled from U. S. G. S. topographic sheets.
3.50	Solid sandstone wash, 30 lks. wide, 6 ft. deep, drains SE. from W., asc. about 40 ft. along wash.
8.50	Leave wash, drains E. from NW., asc. about 320 ft. over broken sandstone ledges and knobs on NE. slope.
19.30	Top of San Rafael Reef, about 1.00 ch. wide, bears SE. and NW. about 3.00 chs., thence NE., desc. about 720 ft. over broken, precipitous sandstone ledges and talus on SW. slope.
35.68	End traverse, thence on true line.
40.01	Point for the original ¼ sec. cor. of sec. 35 not monumented.
	Set an iron post 30 ins. long, 2½ ins. diam., 16 ins. in the ground and in a mound of stone 3 ft. base to top, with brass cap mkd. T21S R13E ¼ S 35 T22S 1961
	Continue descent.
44.90	Small draw, drains S., thence over gently rolling land; asc. 60 ft. over gentle E. slope.
49.00	Spur, projects S.; desc. 60 ft. over gentle W. slope.
52.00	Wash, drains S.; asc. 25 ft. over gentle E. slope.
58.20	Spur, projects S., desc. 15 ft. over SW. slope.
63.00	Wash, 20 lks. wide, 1 ft. deep, drains N.; asc. 80 ft. over NE. slope.
75.16	The original cor. of secs. 34 and 35, monumented with an iron post, set, mkd. and witnessed as described in the official record. This cor. now functions as an angle point only, and was remarked. T21S AP S 35 T22S R13E 61 1912

Dependent Resurvey of the S. Bdy. of T. 21 S., R. 13 E.

Chains	
	S. 89° 51' W. beginning new measurement.
0.52	The closing cor. of secs. 2 and 3, monumented with a 2 in. iron post, set, mkd. and witnessed as described in the official record.
3.54	Wash, 20 lks. wide, 2 ft. deep, drains N.
4.86	Point for the cor. of secs. 34 and 35.
	Set an iron post 30 ins. long, 2½ ins. diam., 15 ins. in the ground and in a mound of stone 3 ft. base to top, with brass cap mkd.
	T21S R13E S34 | S35 S 3 T22S 1961
	Land, broken sandstone ledges E. portion; rolling W. portion. Soil, sandstone E. portion; rocky sandy loam W. portion. Timber, widely scattered scrub pinon and juniper.
	S. 89° 51' W. along the S. bdy. of sec. 34.
	Over rolling land through scattered timber.
	Asc. 85 ft. over gentle, rocky E. slope.
12.30	Rim of mesa, bears N. and S.; desc. 135 ft. over steep, rocky W. slope.
19.60	Road, unimproved, bears NE. and SW., asc. 70 ft. over rocky NE. slope.
28.70	Road, unimproved, bears NW. and SE.
32.50	Wash, 20 lks. wide, 1 ft. deep, drains NE.
35.29	The original ¼ sec. cor. of secs. 3 and 34, monumented with limestone 6x12x18 ins. firmly set, mkd. and witnessed as described in the official record. This cor. now functions as the ¼ sec. cor. of sec. 3, T. 22 S., R. 13 E. only.
	S. 89° 32' W. beginning new measurement.
	Asc. 100 ft. over steep E. slope.
4.71	Point for the ¼ sec. cor. of sec. 34.
	Set an iron post 30 ins. long, 2½ ins. diam., 24 ins. in the ground, with brass cap mkd.
	T21S R13E ¼ S 34 T22S 1961
	No accessories available.
	Cor. set on point of spur projects NE.

v of the

Chains	
	Asc. 80 ft. along N. slope.
12.20	Head of draw, drains NE., asc. 200 ft. over rocky E. slope.
16.60	Wash, 40 lks. wide, 2 ft. deep, drains NE.
25.90	W. rim of mesa, bears NE. and SW., desc. 150 ft. over ledgy NW.
33.80	Road, unimproved, bears NE. and S.
39.63	The original cor. of secs. 33 and 34, monumented with a 3 in. iron post, set, mkd. and witnessed as described in the official record. This cor. now functions as an angle point only, and was remarked.

T21S R15E
A P

S34
T22S
61
1912

S. 89° 51' W., beginning new measurement.

Desc. 120 ft. over ledgy NW. slope.

0.31	The closing cor. of secs. 3 and 4, monumented with a 2 in. iron post set, mkd. and witnessed as described in the official record.
4.18	Wash, 80 lks. wide, 10 ft. deep, with pools of stagnant water, NE.; asc. 50 ft. over ledgy E. slope.
5.08	Point for the cor. of secs. 33 and 34.

Drilled an iron post 12 ins. long, 1 in. diam., 5 ins. in solid sandstone, brass cap mkd.

T21S R13E
S33 | S34
S 4
T22S
1961

Cor. set on point of small spur, bet. two pools of stagnant water, W. side on wash.

Land, rolling.
Soil, rocky, sandy loam, exposed sandstone.
Timber, scattered pinon and juniper.

S. 89° 51' W., along the S. bdy. of sec. 33.

Over rolling, broken land through scattered timber.

Asc. 95 ft. over ledgy E. slope.

3.60	Spur, projects N., desc. 25 ft. over rocky, NW. slope.
12.30	Wash, drains NE., asc. 100 ft. over rocky SE. slope.

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Chains	
22.10	Top of ascent, bears NE. and SW., desc. 20 ft. over rocky, gentle NW. slope.
34.86	Point for the original ¼ sec. cor. of secs. 4 and 33, at proportionate dist. No remaining evidence of the original cor. This cor. now functions as the ¼ sec. cor. of sec. 4, T. 22 S., R. 13 E. only. Set an iron post 30 ins. long, 2½ ins. diam. on solid sandstone and in a mound of stone 3½ ft. base to top, with brass cap mkd. T21S R13E ¼ S 4 T22S 1961
40.00	Point for the ¼ sec. cor. of sec. 33. Set an iron post, 30 ins. long, 2½ ins. diam., 4 ins. in the ground to bedrock, and in a mound of stone, 3½ ft. base to top, with brass cap mkd. T21S R13E ¼ S33 T22S 1961
	Asc. 110 ft. over solid sandstone NE. slope.
44.70	Wash, 30 lks. wide, 2 ft. deep, drains NE.
59.20	Top of ascent, bears NW. and SE., leave solid sandstone, thence over rolling land.
75.04	The original cor. of secs. 4, 5, 32 and 33, monumented with a 3 in. iron post, set, mkd. and witnessed as described in the official record. This cor. now functions as the cor. of secs. 4 and 5, T. 22 S., R. 13 E. only, and was remarked. T21S R13E S 5 | S 4 T22S 61 1912
	S. 89° 45' W. beginning new measurement.
4.96	Point for the cor. of secs. 32 and 33. Set an iron post 30 ins. long, 2½ ins. diam., 4 ins. in the ground and in a mound of stone, 4 ft. base to top, with brass cap mkd. T21S R13E S32 | S33 S 5 T22S 1961
	Land, rolling, mountainous. Soil, rocky, sandy loam. Timber, scattered pinon and juniper.

of S. R.

Chains	
	S. 89° 45' W. along the S. bdy. of sec. 32.
	Over mountainous land through scattered timber.
	Asc. 255 ft. over rocky NE. slope.
3.40	Trail road, bears NW. and SE.
23.50	Knoll, desc. 220 ft. over broken W. slope.
33.50	Jeep road, bears SE. and irregularly W.
35.07	Point for the original ¼ sec. cor. of secs. 5 and 32 at proportionate dist. No remaining evidence of the original cor. This cor. now functions as the ¼ sec. cor. of sec. 5, T. 22 S., R. 13 E. only.
	Set an iron post 30 ins. long, 2½ ins. diam., 15 ins. in the ground and in a mound of stone, 3 ft. base to top, with brass cap mkd.

T21S R13E
¼ S 5
T22S
1961

38.30	Wash, 1.00 ch. wide, 5 ft. deep, drains irregularly S., asc. 160 ft. over gentle, rocky E. slope.
40.00	Point for the ¼ sec. cor. of sec. 32.
	Set an iron post 30 ins. long, 2½ ins. diam., 12 ins. in the ground and in a mound of stone 3½ ft. base to top, with brass cap mkd.

T21S R13E
¼ S 32
T22S
1961

	Continue ascent over E. slope.
72.20	Small ridge, bears NW. and SE.; desc. 15 ft. over gentle SW. slope.
75.10	The cor. of secs. 5, 6, 31 and 32, monumented with a 3 in. iron post set, mkd. and witnessed as described in the official record. This cor. now functions as the cor. of secs. 5 and 6, T. 22 S., R. 13 E. only, and was remarked.

T21S R13E
S6|S5
T22S
61
1912

	S. 89° 43' W., beginning new measurement,
	Over nearly level land; leave timber bears NW. and SE.
4.90	Point for the cor. of secs. 31 and 32.
	Set an iron post 30 ins. long, 2½ ins. diam., 22 ins. in the ground with brass cap mkd.

Chains	
	T21S R13E S31|S32 S 6 T22S 1961
	No accessories available.
	Land, rolling, mountainous. Soil, rocky sand. Timber, scattered pinon and juniper.
	S. 89° 43' W. along the S. bdy. of sec. 31.
	Over rolling mountainous land through medium dense timber.
	Asc. 25 ft. over gentle, rocky NE. slope.
0.80	Enter timber, bears NE. and SW.
15.00	Wash, 30 lks. wide, 3 ft. deep, drains NE., asc. 115 ft. over gentle SE. slope.
24.00	Small ledge, bears NE. and SW.
33.40	Small knoll, desc. 70 ft. over gentle W. slope.
35.18	The original ¼ sec. cor. of secs. 6 and 31, monumented with a 1 in. iron post, set, mkd. and witnessed as described in the official record. This cor. now functions as the ¼ sec. cor. of sec. 6, T. 22 S., R. 13 E. only, and was remarked.
	¼ S 6 61 1912
	S. 89° 51' W., beginning new measurement.
4.22	Wash, 15 lks. wide, 1 ft. deep, drains N., asc. 80 ft. over gentle NE. slope.
4.82	Point for the ¼ sec. cor. of sec. 31.
	Set an iron post 30 ins. long, 2½ ins. diam., 15 ins. in the ground and in a mound of stone 3 ft. base to top, with brass cap mkd.
	T21S R13E ¼ S 31 T22S 1961
	Continue ascent.
10.42	Wash, 40 lks. wide, 2 ft. deep, drains N.
21.32	Point of rocky spur, projects N., desc. 20 ft. over rocky W. slope.

Dependent Res of the S. Bdy. of T. 21 S. R. 13 E.

Chains	
23.32	Wash, 30 lks. wide, 2 ft. deep, drains N., asc. 40 ft. over gentle E. slope.
42.51	The cor. of Tps. 21 and 22 S., R. 13 E., monumented with a 3 in. post, set, mkd. and witnessed as described in the official record.
	From this cor. the cor. of Tps. 21 and 22 S., R. 12 E. bears N., 13.48 chs. dist. and is monumented with a 2½ ins. iron post, set, mkd. and witnessed as described in the official record.
	Land, rolling mountainous. Soil, rocky sand. Timber, medium dense pinon and juniper.

Survey of the East Boundary of
Township 21 South, Range 13 East.

	From the cor. of Tps. 21 and 22 S., Rs. 13 and 14 E., hereinbefore described.
	North, bet. secs. 31 and 36.
	Over broken land of San Rafael Reef.
	Asc. 55 ft. over solid sandstone S. slope.
4.80	Small sandstone spur, projects E., desc. 40 ft. over NE. slope.
7.20	Sandstone wash, drains E., asc. 220 ft. over SE. slope.
26.80	Sandstone spur, projects SE., desc. 80 ft. over gentle N. slope.
40.00	Point for the ¼ sec. cor. of secs. 31 and 36.
	Set an iron post 14 ins. long, 1 in. diam., drilled 5 ins. in solid sandstone, brass cap mkd.

R21S
R13E R14E
¼
S36 | S31
1961

	Mound of stone 2 ft. base, 1½ ft. high W. of cor.
	Cor. set on S. rim of Black Dragon Wash.
40.80	S. rim of Black Dragon Wash, ledge about 100 ft. high, bears NE. W., thence by triangulation, desc. about 480 ft. over sandstone on abrupt N. slope. Topography scaled from U. S. G. S. topographic sheets.
51.30	Black Dragon Wash, drains irregularly E., asc. about 500 ft. over solid sandstone ledges on abrupt S. slope.
62.50	N. rim of Black Dragon Wash, ledge about 60 ft. high, bears E. and W.
66.10	Top of sandstone knob. End triangulation, desc. 170 ft. over br sandstone N. slope.

U. S. GOVERNMENT PRINTING OFFICE 16—28830-2

Chains	
73.90	Sandstone ledge, 40 ft. high, bears E. and W.
76.60	Sandstone wash, drains NE., asc. 10 ft. over gentle SE. slope.
80.00	Point for the cor. of secs. 25, 30, 31 and 36. Set an iron post 24 ins. long, 1 in. diam., drilled 4 ins. in solid sandstone and in a mound of stone 3 ft. base to top, with brass cap mkd. R21S R13E R14E S25 | S30 S36 | S31 1961
	Land, broken San Rafael Reef. Soil, sandstone. Timber, widely scattered juniper N. portion; none S. portion.
	North, bet. secs. 25 and 30. Over solid sandstone San Rafael Reef, through widely scattered timber. Asc. 70 ft. over solid sandstone SE. slope.
20.20	Wash, 30 lks. wide, 4 ft. deep, drains E. about 4.00 chs., thence S.
25.70	Draw, drains SE., asc. 120 ft. over ledgy SW. slope.
30.50	Point of spur, projects W., thence along W. slope.
37.90	Ridge, bears SE. and W.; desc. 45 ft. over N. slope to ¼ cor.
38.90	Top of ledge, 30 ft. high, bears E. and W.
40.00	Point for the ¼ sec. cor. of secs. 25 and 30. Set an iron post 30 ins. long, 2½ ins. diam., on solid sandstone and in a mound of stone, 4 ft. base to top, with brass cap mkd. T21S R13E R14E ¼ S25 | S30 1961
	Cor. set at base of ledge, 30 ft. high, on N. slope. By triangulation, desc. about 40 ft. over gentle sandstone N. slope. Topography scaled from U. S. G. S. topographic sheets.
42.50	S. rim of box canyon, bears NW. and E., desc. abruptly about 680 ft. over broken NE. slope.
52.00	Bottom of canyon, drains E., asc. about 460 ft. over abrupt, broken S. slope.
66.30	Sandstone spur, projects E., desc. about 80 ft. over NE. slope.
69.50	Draw, drains E., asc. about 200 ft. over SE. slope.

Chains	
76.50	Small sandstone spur, projects E.; thence along E. slope.
80.00	Point for the cor. of secs. 19, 24, 25 and 30.
	Set an iron post 18 ins. long, 1 in diam., drilled 3 ins. in solid sandstone and in a mound of stone, 3 ft. base to top, with brass cap mkd.

R21S
R13E R14E
S24 | S19
S25 | S30
1961

Land, broken.
Soil, sandstone.
Timber, widely scattered juniper and pinon S. portion; none W. portion.

North, bet. sec. 19 and 24.

Over broken sandstone reef.

Over gentle sandstone E. slope on W. rim of San Rafael River.

13.10	S. rim of San Rafael River, bears NE. and SW. by triangulation, desc abruptly about 880 ft. over sandstone ledges on NW. slope. Topography scaled from U. S. G. S. topographic sheets.
24.00	Base of steep, broken NW. slope, bears NE. and SW.; thence over nearly level river bottom land.
32.50	San Rafael River, about 1.50 chs. wide, course E., asc. about 250 f over large boulders on rocky, steep, SE. slope.
40.00	Point for the ¼ sec. cor. of secs. 19 and 24 falls on large sloping boulder where cor. cannot be perpetuated.
40.75	Point slected for the witness ¼ sec. cor. of secs. 24 and 19.
	Set an iron post 30 ins. long, 2½ ins. diam., on solid sandstone and in a mound of stone 4½ ft. base to top, with brass cap mkd.

T21S
R13E R14E
¼
S24 | S19
W C
1961

End triangulation.

Cor. set on N. side of large boulder on SE. slope about 100 ft. Sand Rafael River.

Cont. ascent.

49.20	Ledge, 50 ft. high, bears SE. and SW.; wash, 30 lks. wide, 3 ft. deep, drains SE., by triangulation, asc. about 600 ft. over sandstone ledges on SW. slope. Topography scaled from U. S. G. S. topographic sheets.
63.50	Base of ledge, bears NW. and SE.

U. S. GOVERNMENT PRINTING OFFICE 16—29250-2

Chains	
68.40	N. rim of San Rafael River ledge, about 300 ft. high, bears NW. and SE., asc. 170 ft. over ledgy S. slope. End triangulation.
75.10	Top of ledge, 20 ft. high, bears W. and SE., desc. 10 ft. along E. slope.
80.00	Point for the cor. of secs. 13, 18, 19 and 24. Set an iron post 30 ins. long, 2½ ins. diam., on solid sandstone and in a mound of stone, 4 ft. base to top, with brass cap mkd. T21S R13E R14E S13 | S18 S24 | S19 1961 Land, broken. Soil, sandstone, except in river bottom which is rocky sand. Timber, widely scattered pinon and juniper.
	North, bet. secs. 13 and 18. Over broken mountainous land through widely scattered timber. Desc. 50 ft. along E. slope.
4.30	Wash, drains SE., asc. 120 ft. over ledgy SE. slope.
9.70	Sandstone spur, projects E., desc. 100 ft. over ledgy NE. slope.
13.80	Wash, drains SE., asc. 300 ft. over ledgy S. slope of butte.
24.70	Top of sandstone butte, desc. 340 ft. over ledgy N. slope.
38.50	Wash, drains irregularly E., thence along gentle E. slope.
40.00	Point for the ¼ sec. cor. of secs. 13 and 18. Set an iron post 30 ins. long, 2½ ins. diam., on solid sandstone and in a mound of stone, 5 ft. base to top, with brass cap mkd. T21S R13E R14E ¼ S13 | S18 1961 Continue along E. slope, by triangulation. Topography scaled from U. S. G. S. topographic sheets.
44.00	Wash, drains SE.; asc. abruptly about 200 ft. over broken, ledgy SW. slope.
51.80	Ledgy spur, projects SE. End triangulation. Desc. 180 ft. over broken NE. slope.
58.90	Base of steep descent, bears NW. and SE., thence desc. 20 ft. along E. slope.

Chains	
72.80	Wash, 40 lks. wide, 6 ft. deep, drains SE., asc. 40 ft, over ledgy SW. slope.
78.20	Low spur, projects SE., desc. 5 ft. over N. slope.
80.00	Point for the cor. of secs. 7, 12, 13 and 18.
	Set an iron post 30 ins. long, 2½ ins. diam., on solid sandstone in a mound of stone 4 ft. base to top, with brass cap mkd.
	T21S R13E R14E S12 | S 7 S13 | S18 1961
	Land, mountainous, broken. Soil, sandstone. Timber, widely scattered pinon and juniper.
	North, bet. secs. 7 and 12.
	Over broken sandstone reef, through scattered timber.
	By triangulation, over solid sandstone along E. slope. Topography scaled from U. S. G. S. topographic sheets.
15.00	Sandstone wash, drains SE., asc. 40 ft. over SW. slope.
18.50	Sandstone spur, projects SE., desc. about 80 ft. over NE. slope.
27.50	Wash, drains SE., asc. about 40 ft. over SW. slope.
30.50	Slope changes to S., asc. about 160 ft. over abrupt, ledgy S. slope
38.00	Base of ledges, bears NE. and SW.
39.50	Top of ledge, about 50 ft. high, bears NE. and SW. End triangula
40.00	Point for the ¼ sec. cor. of secs. 7 and 12.
	Set an iron post 18 ins. long, 1 in. diam., drilled 8 ins. in solid sandstone, brass cap mkd.
	R21S R13E R14E ¼ S12 | S 7 1961
	Mound of stone 2 ft. base, 1½ ft. high, W. of cor.
	Cor. set on SE. side of sandstone pinnacle about 100 ft. high.
	By traverse, asc. abruptly about 100 ft. over verticle SE. slope. Topography scaled from U. S. G. S. topographic sheets.
40.50	Top of sandstone pinnacle, about 100 ft. high, on spur, projects NW desc. about 200 ft. over broken NE. slope.
62.00	Wash, drains SE., asc. about 260 ft. over sandstone SW. slope.

U. S. GOVERNMENT PRINTING OFFICE 16—36290-2

Chains	
68.00	Base of ledges, bears NW. and SE., asc, abruptly.
72.60	Top of ledge, about 120 ft. high, bears NW. and E. Eng triangulation.
77.00	Point on spur, projects W., desc. 20 ft. over broken N. slope to witness cor.
78.20	Point selected for the witness cor. of secs. 1, 6, 7 and 12.
	Set an iron post 15 ins. long, 1 in. diam., drilled 6 ins. in solid sandstone, and in a mound of stone to top, with brass cap mkd.
	T21S R13E R14E W C S 1 | S 6 S12 | S 7 1961
	By triangulation, desc. about 160 ft. over ledgy N. slope to true point. Topography scaled from U. S. G. S. topographic sheets.
80.00	Point for the cor. of secs. 1, 6, 7 and 12 falls on inaccessible N. slope and cannot be perpetuated.
	Land, broken. Soil, sandstone. Timber, widely scattered scrub pinon and juniper.
	North, bet. secs. 1 and 6.
	Over broken land through widely scattered timber.
	Continue on same triangulation; desc. about 440 ft. over precipitous and broken N. slope.
5.00	Draw, drains NW.; asc. about 100 ft. over ledgy SW. slope.
7.50	Spur, projects NW.; desc. about 240 ft. over ledgy NW. slope.
9.50	Small draw, drains W., asc. about 40 ft. over SW. slope.
11.50	Small spur, projects W., desc. about 240 ft. over broken NW. slope.
25.50	Draw, drains W.; asc. about 840 ft. over broken precipitous SW. slope.
40.00	Point for the ¼ sec. cor. of secs. 1 and 6 falls on inaccessible shelf on broken SW. slope and cannot be perpetuated.
49.35	Point selected for the witness ¼ sec. cor. of secs. 1 and 6.
	Set an iron post 30 ins. long, 2½ ins. diam., on solid sandstone and in a mound of stone, 4 ft. base to top, with brass cap mkd.
	T21S R13E R14E ¼ S 1 | S 6 W C 1961

of the E. . . of T. 21 S., R. 13 E.

Chains	
	End triangulation.
	Cor. set on ledge about 100 ft. high, bears NW. and SE., about 60 ft below top.
	Continue ascent.
53.50	Ledge, 50 ft. high, S. rim of mesa, bears NW. and SE.; thence over rolling mesa top.
64.10	N. rim of mesa, ledge, 50 ft. high, bears NE. and SW., by triangulation, desc. about 360 ft. over broken, ledgy NW. slope.
80.00	Point for the cor. of Tps. 20½ and 21 S., R. 13 E.
	Set an iron post 30 ins. long, 2½ ins. diam. on solid sandstone and in a mound of stone, 3½ ft. base to top, with brass cap mkd.
	T20½S T21S R13E R14E S36 S6 S 1 1/16 80 T21S 1961
	This cor. also functions as the 1/16 sec. cor. of sec. 6, T. 21 S., R. 14 E.
	Cor. set on bench in cove on E. rim of Spring Canyon.
	Land, broken. Soil, sandstone. Timber, widely scattered pinon and juniper.
	Survey of the Subdivision of Township 21 South, Range 13 East
	From the cor. of secs. 35 and 36 on the S. bdy. of the Tp.
	N. 0° 01' W. bet. secs. 35 and 36.
	Over broken, mountainous land.
	By triangulation, asc. about 50 ft. over rocky SE. slope. Topograp scaled from U. S. G. S. topographic sheets.
3.50	Spur, projects E., desc. about 40 ft. over rocky NE. slope.
6.50	Draw, drains E., asc. about 600 ft. over solid sandstone ledges and pinnacles on broken S. slope.
11.50	Sandstone ledge, about 100 ft. high, bears E. and W., thence over solid sandstone top of reef.
12.50	Top of reef, bears NE. and SW. End one triangulation, beginning or another. Topography scaled from U. S. G. S. topographic sheets. Desc. about 1,280 ft. over sandstone ledges and talus on broken NW. slope.
20.50	Top of ledge, about 200 ft. high, bears NE. and SW.

U. S. GOVERNMENT PRINTING OFFICE 16—80880-2

Chains	
28.50	Base of ledges, bears NE. and SW., thence continue descent over loose, rocky talus.
40.00	Point for the ¼ sec. cor. of secs. 35 and 36.
	Set an iron post, 30 ins. long, 2½ ins. diam., 6 ins. in the ground to bedrock, and in a mound of stone, 4 ft. base to top, with brass cap mkd.
	T21S R13E ¼ S35 | S36 1961
	End triangulation.
	From this cor., a small cabin bears about N. 45° W., a dist. of about 7.00 chs.
	By triangulation, continue descent over NW. slope. Topography scaled from U.S.G.S. topographic sheets.
49.00	Wash, 20 lks. wide, 4 ft. deep, drains NE.; asc. about 40 ft. over SE. slope.
56.50	Spur, projects NE.; desc. about 80 ft. over rocky N. slope.
58.00	Road, unimproved, bears SW. and E.
59.50	Wash, 1.00 ch. wide, 8 ft. deep, drains irregularly E.; asc. about 360 ft. over rocky, broken S. slope.
80.00	Point for the cor. of secs. 25, 26, 35 and 36 falls on S. face of large boulder where cor. cannot be perpetuated; end triangulation.
	Therefore
	At a point S. 89° 57' E. 0.34 chs., set an iron post 30 ins. long, 2½ ins. diam., 15 ins. in the ground and in a mound of stone to top, with brass cap mkd.
	T21S R13E W S26 | S25 C S35 | S36 1961
	From this witness cor., a VABM bears S. 8° 03' 20" W. a dist. of 68.308 chs.
	A mine, bears S. 9° 45' E. a dist. of 46.90 chs.
	Land, rough and broken. Soil, sandstone S. portion; rocky sandy clay N. portion. Timber, none.
	From the cor. of secs. 25, 30, 31 and 36 on the E. bdy. of the Tp.
	N. 89° 57' W., bet. secs. 25 and 36.
	Over mountainous, broken land through widely scattered scrub timber.

Chains	
	Asc. 110 ft. over solid sandstone E. slope.
12.90	Rim of San Rafael Reef, ledge, about 300 ft. high, bears NW. and SE. thence by triangulation, desc. about 400 ft. over sandstone ledges SW. slope. Topography scaled from U.S.G.S. topographic sheets. Leave timber.
26.50	Solid sandstone draw, drains SE., asc. about 280 ft. over solid stone SE. slope.
37.40	Point of red sandstone spur, projects SE. End triangulation. Desc. 20 ft. over SW. slope.
40.04	Point for the ¼ sec. cor. of secs. 25 and 36.
	Set an iron post, 30 ins. long, 2½ ins. diam., on solid stone and in a mound of stone 3½ ft. base to top, with brass cap mkd.
	T21S R13E ¼ S25 S36 1961
	Cor. set at base of ledge, 10 ft. high, bears NW. and SE.
	Continue descent.
42.50	Wash, 40 lks. wide, 3 ft. deep, drains SE., asc. 290 ft. over solid sandstone E. slope.
56.20	Slope changes; asc. 35 ft. along broken, rocky S. slope.
66.20	Top of ledge, bears SE. and W., thence by triangulation, desc. abruptly about 320 ft. over broken, ledgy S. slope.
79.74	The witness cor. of secs. 25, 26, 35 and 36.
80.08	True point for the cor. of secs. 25, 26, 35 and 36.
	Land, mountainous, broken. Soil, sandstone. Timber, widely scattered pinon and juniper E. portion; none W.porti·
	From the cor. of secs. 33 and 34 on the S. bdy. of the Tp.
	N. 0° 02' W., bet. secs. 33 and 34.
	Over broken land through scattered timber.
	Asc. 80 ft. over broken SE. slope.
4.40	Spur, projects E., desc. 75 ft. over rocky, gentle NW. slope.
8.30	Black Dragon Wash, drains NE.; asc. 80 ft. over gentle rocky SE. slope.
15.60	Top of ascent, bears E. and W.; desc. 50 ft. over gentle N. slope.
29.00	Wash, 1.20 chs. wide, 2 ft. deep, drains E.; asc. 20 ft. over gentle S. slope.
34.40	Top of ascent, bears E. and W.; desc. 45 ft. over gentle NE. slope.

U. S. GOVERNMENT PRINTING OFFICE 16—88250-2

GPO

Chains	
34.40	Top of ascent, bears E. and W., desc. 45 ft. over gentle NE. slope.
42.05	Point for the ¼ sec. cor. of secs. 33 and 34, 40.00 chs. southing from calculated point for cor. of secs. 27, 28, 33 and 34 on sectional correction line. Set an iron post 30 ins. long, 2½ ins. diam., 5 ins. in the ground to bedrock, and in a mound of stone to top, with brass cap mkd. T21S R13E ¼ S33 | S34 1961 Continue descent.
57.40	Wash, drains S. 80° E., asc. 175 ft. over broken S. slope.
61.00	Wash, drains S. 70° E.
61.70	Road, unimproved, bears N. 80° W. and S. 70° E.
68.50	S. rim of Jackass Benches, bears irregularly E. and W., desc. 20 ft. over gentle NE. slope.
82.05	Point for the cor. of secs. 27, 28, 33 and 34 calculated to be on a sectional correction line extended W. from the cor. of secs. 25, 26, 35 and 36. Set an iron post 30 ins. long, 2½ ins. diam., 3 ins. in the ground to bedrock, and in a mound of stone to top, with brass cap mkd. T21S R13E S28 | S27 S33 | S34 1961 Land, broken S. portion; rolling N. portion. Soil, rocky loamy clay. Timber, scattered pinon and juniper.

N. 0° 02' W. bet. secs. 27 and 28.

Over rolling land through scattered timber.

Desc. 80 ft. over gentle NE. slope.

40.00	Point for the ¼ sec. cor. of secs. 27 and 28. Set an iron post 30 ins. long, 2½ ins. diam., 3 ins. in the ground to bedrock, and in a mound of stone to top, with brass cap mkd. T21S R13E ¼ S28 | S27 1961 Continue descent.
46.90	N. rim of Jackass Benches, bears irregularly E. and W., desc. 265 ft. over broken, ledgy NE. slope.

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of T. 21 S., R. 13 E.

Chains	
80.00	Point for the cor. of secs. 21, 22, 27 and 28.
	Set an iron post 30 ins. long, 2½ ins. diam., 6 ins. in the ground to bedrock, and in a mound of stone, 4 ft. base to top, with brass cap mkd.
	T21S R13E S21 | S22 S28 | S27 1961
	Land, rolling. Soil, rocky loamy clay. Timber, scattered pinon and juniper.
	N. 0° 02' W., bet. secs. 21 and 22.
	Over rolling land through scattered timber and brush.
	Desc. 15 ft. over N. slope.
4.10	Wash, drains NW.; asc. 130 ft. over rocky SW. changing to W. slope.
18.30	Point of spur, projects W., desc. 240 ft. over NW. slope.
34.10	Wash, drains irregularly NE.; asc. 80 ft. over S. slope.
39.30	Spur, projects SE.; desc. 150 ft. over NE. slope.
40.00	Point for the ¼ sec. cor. of secs. 21 and 22.
	Set an iron post 30 ins. long, 2½ ins. diam. on solid stone and in mound of stone 4 ft. base, to top, with brass cap mkd.
	T21S R13E ¼ S21 | S22 1961
	Continue descent.
64.90	Junction of two washes, drains E. from W. and SW.; asc. 80 ft. over SW. slope.
73.80	Ridge, bears E. and W.; desc. 40 ft. over N. slope.
80.00	Point for the cor. of secs. 15, 16, 21 and 22.
	Set an iron post 30 ins. long, 2½ ins. diam., 2 ins. in the ground to bedrock, and in a mound of stone, 4 ft. base to top, with brass cap mkd.
	T21S R13E S16 | S15 S21 | S22 1961
	Land, rolling. Soil, rocky, loamy clay. Timber, scattered pinon and juniper.

Chains	
	N. 0° 02' W. bet. secs. 15 and 16.
	Over rolling land cut by numerous washes, through scattered timber.
	Desc. 80 ft. over N. slope.
3.80	Wash, drains NE.; asc. 70 ft. over S. slope.
8.40	Small spur, projects E.; desc. 10 ft. over N. slope.
16.00	Wash, drains irregularly E.; asc. 15 ft. over S. slope.
22.40	Wash, drains irregularly SE.
25.00	Small spur, projects SE.; desc. 40 ft. over NE. slope.
33.20	Wash, drains SE.; asc. 30 ft. over steep SW. slope.
35.80	Spur, projects SE.; desc. 30 ft. over steep NE. slope.
38.10	Wash, drains SE.; asc. 30 ft. over SW. slope.
40.00	Point for the ¼ sec. cor. of secs. 15 and 16.
	Set an iron post 30 ins. long, 2½ ins. diam., 2 ins. in the ground to bedrock, and in a mound of stone to top, with brass cap mkd.
	T21S R13E ¼ S16 | S15 1961
	Continue ascent.
48.00	Small wash, drains S. 70° W.; asc. 100 ft. over S. slope.
57.10	N. end of shale knoll, about 6.00 chs. long, desc. 135 ft. over N. slope of knoll.
65.80	Small wash, drains E.; asc. 135 ft. over SE. slope.
78.65	Point selected for the witness cor. of secs. 9, 10, 15 and 16.
	Set an iron post 30 ins. long, 2½ ins. diam., 12 ins. in the ground and in a mound of stone, 4 ft. base to top, with brass cap mkd.
	T21S R13E W C S 9 | S10 S16 | S15 1961
80.00	Point for the cor. of secs. 9, 10, 15 and 16 falls on shale ledges facing SE. and cannot be perpetuated.
	Land, rolling desert. Soil, rocky, loamy clay. Timber, scattered pinon and juniper.
	N. 0° 02' W., bet. secs. 9 and 10.
	Over broken desert land.

ion of T. 21

Chains	
	Asc. 60 ft. over shale ledges on SE. slope.
2.30	S. rim of mesa, bears E. and SW.; asc. 10 ft. over mesa top.
10.40	N. rim of same mesa, bears W. and curves NW.; desc. 140 ft. over N. slope into small cove.
17.80	Small gully, drains NW.; asc. 115 ft. over SW. slope.
23.60	W. rim of same mesa, bears N. and curves SW.; thence over mesa top.
37.80	W. rim of same mesa, bears S. and curves NE.; desc. 230 ft. over NW. slope.
40.00	Point for the ¼ sec. cor. of secs. 9 and 10.
	Set an iron post 30 ins. long, 2½ ins. diam., 14 ins. in the ground to bedrock, and in a mound of stone 4 ft. base to top, with brass mkd.
	T21S R13E. ¼ S 9 | S10 1961
	Cor. set on NW. slope, 40 ft. below mesa top.
	Continue descent.
48.30	Base of descent, bears E. and SW.; thence over canyon bottom.
58.60	S. rim of Black Box Canyon, bears E. and NW.; thence by triangulat desc. abruptly about 160 ft. over sandstone ledges on N. slope. Topography scaled from U. S. G. S. topographic sheets.
65.00	San Rafael River with small stream of water flows irregularly NE.; asc. abruptly about 160 ft. over sandstone ledges on SE. slope.
69.50	N. rim of Black Box Canyon, bears irregularly NE. and SW.; thence over broken, rolling land.
79.56	End triangulation.
80.00	Point for the cor. of secs. 3, 4, 9 and 10.
	Set an iron post 30 ins. long, 2½ ins. diam., 6 ins. in the ground t bedrock, and in a mound of stone 3 ft. base to top, with brass cap
	T21S R13E S 4 | S 3 S 9 | S10 1961
	Land, broken, rolling. Soil, rocky, loamy clay with exposed sandstone. Timber, none.
	N. 0° 02' W. bet. secs. 3 and 4.
	Over broken desert land.
	By triangulation, over rolling desert land. Topography scaled from U. S. G. S. topographic sheets.

Chains	
27.50	Wash, drains E.; asc. about 240 ft. over steep S. slope.
36.60	Spur, projects S. 80° E., about 60 lks. wide. End triangulation. Desc. 150 ft. over steep NE. slope to ¼ cor.
40.00	Point for the ¼ sec. cor. of secs. 3 and 4.
	Set an iron post, 30 ins. long, 2½ ins. diam., 10 ins. in the ground to bedrock, and in a mound of stone, 4 ft. base to top, with brass cap mkd.
	T21S R13E ¼ S 4 | S 3 1961
	Cor. set about 1.00 ch. above base of steep NE. slope.
	Thence by triangulation, desc. about 90 ft. over NE. slope. Topography scaled from U.S.G.S. topographic sheets.
41.00	Base of steep NE. slope, bears NW. and SE.; continue descent.
42.70	Wash, drains E.; asc. about 50 ft. over SE. slope.
45.00	Spur, projects E.; desc. about 50 ft. over NE. slope.
49.50	Wash, drains E.
53.00	Wash, drains SE.; asc. about 160 ft. over steep SW. slope.
58.30	Narrow spur, projects SE.; desc. about 160 ft. over NE. slope.
64.00	Wash, drains SE.; asc. about 160 ft. over SW. slope.
67.00	Narrow spur, projects S. 80° E.; desc. about 80 ft. over NE. slope.
70.00	Wash, drains E.; asc. about 180 ft. over steep, broken S. slope.
80.42	Intersect the cor. of secs. 3, 4, 33 and 34, on the N. bdy. of the Tp. monumented with a 2½ in. iron post, set, mkd. and witnessed as described in the 1961 field notes of the S. bdy. of T. 20½ S., R. 13 E.
	Land, broken desert. Soil, rocky loamy clay. Timber, none.
	From true point for cor. of secs. 1, 2, 35 and 36, from which its witness cor. bears E. 0.10 ch., monumented with a 2½ in. iron post set, mkd. and witnessed as described in the 1961 field notes of the S. bdy. of T. 20½ S., R. 13 E.
	S. 0° 01' E., bet. secs. 1 and 2.
	Over rolling river bottom land.
	Desc. 190 ft. over rocky, broken SW. slope.
13.70	Enter river bottom, continue descent over gentle SW. slope.

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Chains	
32.75	San Rafael River, 1.00 ch. wide, 3 ft. deep, flows E. from NW.; asc. 90 ft. over gentle, rocky NE. slope.
40.14	Point for the ¼ sec. cor. of secs. 1 and 2, at a calculated dist., falls in wash, 20 lks. wide, 2 ft. deep, drains NE., and cannot be perpetuated.
40.24	Point selected for the witness ¼ sec. cor. of secs. 1 and 2.
	Set an iron post, 30 ins. long, 2½ ins. diam., 6 ins. in the ground to bedrock, and in a mound of stone, 4 ft. base to top, with brass cap mkd. T21S R13E ¼ S 2 | S 1 W C 1961
	Continue ascent.
44.70	Head of draw, drains NE., thence by triangulation, asc. about 520 ft. over abrupt, broken ledges on NE. slope. Topography scaled from U.S.G.S. topographic sheets.
61.20	Top of ledge, 100 ft. high, bears NW. and E. End triangulation, thence asc. 55 ft. over gentle NE. slope.
65.50	Top of ascent, slopes E.; desc. 25 ft. over gentle SE. slope.
71.00	Ledge, 100 ft. high, bears E. and Curves SW.; thence by triangulation desc. abruptly about 440 ft. over broken, ledgy S. slope of cove.
80.14	Point for the cor. of secs. 1, 2, 11 and 12, at a point calculated to be on line bet. the true point for the cor. of secs. 1, 6, 7 and 12 on E. bdy. and the cor. of secs. 3, 4, 9 and 10.
	Set an iron post, 30 ins. long, 2½ ins. diam., on solid sandstone and in a mound of stone, 5 ft. base to top, with brass cap mkd. T21S R13E S 2 | S 1 S11 | S12 1961
	Cor. set on broken S. slope on N. edge of draw, drains SE.
	Land, rolling river bottom N. ½; broken, mountainous S. ½. Soil, rocky loamy clay. Timber, none.
	S. 89° 54' W. on a calculated course bet. secs. 2 and 11.
	Over broken sandstone ledges.
	By triangulation, asc. about 480 ft. over steep, broken E. slope. Topography scaled from U.S.G.S. topographic sheets.
10.50	Top of ledge, 100 ft. high, bears S., and curves NE.; asc. about 640 ft. over solid sandstone ledges on NE. slope.

U. S. GOVERNMENT PRINTING OFFICE 16—26520-2

GPO

Chains	
26.50	Point of solid sandstone spur, projects SE.; end one triangulation, beginning of another. Desc. abruptly about 400 ft. over SW. slope. Topography scaled from U. S. G. S. topographic sheets.
27.30	Top of ledge, 400 ft. high, bears NW. and SE.
32.50	Base of ledge, bears NW. and SE.; desc. about 80 ft. over large boulders on SW. slope.
40.00	Point for the ¼ sec. cor. of secs. 2 and 11.
	Set an iron post 30 ins. long, 2½ ins. diam., 4 ins. in the ground to bedrock, and in a mound of stone, 4 ft. base to top, with brass cap mkd. T21S R13E ¼ S 2 S11 1961
	End one triangulation, beginning of another. Continue descent. Topography scaled from U. S. G. S. topographic sheets.
47.30	Wash, 50 lks. wide, 4 ft. deep, drains SE.; asc. about 40 ft. over solid sandstone gentle E. slope.
58.00	Base of steep E. slope, bears N. and SE.; asc. about 760 ft. over sandstone ledges on broken E. slope.
73.20	Top of ledge, 300 ft. high, bears N. and irregularly SE. End triangulation. Continue ascent.
78.60	Point of sandstone spur, projects N., desc. 60 ft. over abrupt, ledgy W. slope.
79.79	Point slected for the witness cor. of secs. 2, 3, 10 and 11.
	Set an iron post, 30 ins. long, 2½ ins. diam., on solid sandstone and in a mound of stone 4 ft. base to top, with brass cap mkd. T21S R13E W S 3 | S 2 C S10 | S11 1961
80.00	Point for the cor. of secs. 2, 3, 10 and 11 falls on ledge sloping NW. and cannot be perpetuated.
	Land, mountainous, broken. Soil, rocky, loamy clay, with considerable exposed sandstone. Timber, none.
	N. 0° 02' E. bet. secs. 2 and 3.
	Over broken land.
	By triangulation, desc. about 800 ft. over abrupt, broken ledges on N. slope. Topography scaled from U. S. G. S. topographic sheets.
8.50	Wash, drains NW., thence along broken W. slope.
10.00	Small spur, projects NW.; desc. about 160 ft. over broken N. slope.

Chains	
13.30	Wash, drains NW.; asc. 20 ft. over SW. slope.
15.00	Small spur, projects NW.; desc. about 80 ft. over broken N. slope.
17.00	Wash, drains N. 15° W.; desc. about 2 ft. along broken W. slope.
33.40	End triangulation.
33.70	Point selected for the witness ¼ sec. cor. of secs. 2 and 3.
	Set an iron post 30 ins. long, 2½ ins. diam., on solid sandstone in a mound of stone 4 ft. base to top, with brass cap mkd.
	T21S R13E ¼ W C S 3 S 2 1961
	Cor. set on edge of ledge, about 80 ft. high, bears NE. and SW.
	Thence by triangulation, desc. abruptly about 120 ft. over shale ledges on NW. slope. Topography scaled from U. S. G. S. topographic sheets.
35.00	Wash, drains NE.; asc. abruptly about 40 ft. over shale ledges on SE. slope.
40.00	Point for the ¼ sec. cor. of secs. 2 and 3, falls on broken shale ledges sloping SE. and cannot be perpetuated.
41.00	Ledgy spur, projects E.; desc. abruptly about 120 ft. over shale ledges on N. slope.
43.50	San Rafael River, about 60 lks. wide, 1 ft. deep, flows irregularly E., thence over gently rolling river bottom.
53.30	Small wash, drains E.
55.70	Wash, drains SE.; asc. about 40 ft. along W. slope.
62.50	Point of ledge, about 80 ft. high, bears SE. and irregularly N., thence over nearly level desert land.
80.33	The cor. of secs. 2, 3, 34 and 35 on the N. bdy. of the Tp., monumented with a 2½ in. iron post, set, mkd. and witnessed as described in the 1961 field notes of the S. bdy. of T. 20½ S., R. 13 E.
	Land, broken, ledgy S. portion; broken, rolling N. portion. Soil, sandstone S. portion; rocky clay N. portion. Timber, none. Undergrowth, shadscale.
	From the cor. of secs. 15, 16, 21 and 22.
	West, bet. secs. 16 and 21.
	Over rolling desert land through scattered timber.
	Asc. 225 ft. over NE. slope.
5.00	Small wash, drains NE.; continue ascent.

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Chains	
25.00	Small wash, drains NE., continue ascent.
40.00	Point for the ¼ sec. cor. of secs. 16 and 21.
	Set an iron post, 30 ins. long, 2½ ins. diam., on solid stone, and in a mound of stone 3½ ft. base to top, with brass cap mkd. T21S R13E ¼ S 16 S 21 1961
	Continue ascent.
57.00	Top of ascent, bears irregularly N. and S.; desc. 65 ft. over W. slope.
65.50	Canyon, drains N. 20° E.; asc. 155 ft. over NE. slope.
75.80	W. rim of canyon, bears NW. and SE.; continue ascent.
80.00	Point for the cor. of secs. 16, 17, 20 and 21.
	Set an iron post 30 ins. long, 2½ ins. diam., 6 ins. in the ground and in a mound of stone, 3 ft. base to top, with brass cap mkd. T21S R13E S17 | S16 S20 | S21 1961
	Land, rolling desert. Soil, rocky, loamy clay. Timber, scattered pinon and juniper. Undergrowth, shadscale and brush.
	N. 0° 03' W., bet. secs. 16 and 17.
	Over rolling desert land through scattered timber and brush.
	Asc. 10 ft. over gentle SE. slope.
1.70	Top of ascent, bears NW. and SE.; desc. 105 ft. over NE. slope.
14.40	Bottom of canyon, drains S. 40° E.; asc. 85 ft. over steep SW. slope.
19.20	N. rim of canyon, bears NW. and SE.; thence over rolling land.
40.00	Point for the ¼ sec. cor. of secs. 16 and 17.
	Set an iron post 30 ins. long, 2½ ins. diam., on solid stone and in a mound of stone 3 ft. base to top, with brass cap mkd. T21S R13E ¼ S17 | S16 1961
	Thence by triangulation, asc. about 200 ft. over steep S. slope.
40.50	Road, unimproved, bears E. and W.
50.50	Top of knoll; end triangulation, thence desc. 305 ft. over broken N. slope.

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Chains	
65.70	Base of steep descent, thence over gentle N. slope.
80.00	Point for the cor. of secs. 8, 9, 16 and 17.
	Set an iron post 30 ins. long, 2½ ins. diam., 8 ins. in the ground to bedrock, and in a mound of stone, 3½ ft. base to top, with brass cap mkd.
	T21S R13E S 8 | S 9 S17 | S16 1961
	Land, rolling desert. Soil, rocky, loamy clay. Timber, scattered pinon and juniper. Undergrowth, shadscale and brush.
	From the true point for cor. of secs. 9, 10, 15 and 16, (witnessed S. 0° 02' E. 1.35 chs).
	N. 89° 54' W., bet. secs. 9 and 16.
	Over rolling desert land through scattered timber and brush.
	Asc. 15 ft. over SE. slope.
6.50	Top of mesa, bears NE. and SW.; desc. 162 ft. over NW. slope.
18.10	Wash, drains N.; asc. 60 ft. over NE. slope.
27.90	Spur, projects N.; desc. 30 ft. over W. slope.
32.30	Wash, drains N.; asc. 220 ft. over NE. slope.
40.01	Point for the ¼ sec. cor. of secs. 9 and 16.
	On a NE. slope, 120 ft. above wash.
	Set an iron post 30 ins. long, 2½ ins. diam., 4 ins. in the ground to bedrock, and in a mound of stone 3 ft. base to top, with brass cap mkd.
	T21S R13E ¼ S 9 S16 1961
	Continue ascent.
42.60	Top of ascent, bears NW. and SE.; desc. 180 ft. over SW. slope.
50.00	Wash, drains N. 20° W.; asc. 70 ft. over NE. slope.
69.00	Wash, drains N. 20° E.; continue ascent.
79.10	Top of ascent, bears NE. and SW.; desc. 10 ft. along N. slope.
80.02	The cor. of secs. 8, 9, 16 and 17.
	Land, rolling desert. Soil, rocky loamy clay. Timber, scattered juniper, with brush undergrowth.

U. S. GOVERNMENT PRINTING OFFICE 16—28830-3

Chains	
	From the cor. of secs. 32 and 33 on the S. bdy. of the Tp.
	N. 0° 03' W. bet. secs. 32 and 33.
	Over rolling land through scattered timber.
	By triangulation, desc. about 140 ft. over gentle, rocky N. slope. Topography scaled from U. S. G. S. topographic sheets.
25.00	Ledgy wash, drains E.; asc. about 60 ft. over ledgy S. slope.
28.50	Spur, projects E.; desc. about 40 ft. over rocky NE. slope.
31.80	Wash, drains SE.; asc. 80 ft. over S. slope.
37.40	Top of small knoll, 50 lks. wide. End triangulation. Desc. 80 ft. over steep N. slope to ¼ cor.
42.26	Point for the ¼ sec. cor. of secs. 32 and 33, 40.00 chs. southing from the calculated point for cor. of secs. 28, 29, 32 and 33 on sectional correction line.
	Set an iron post, 30 ins. long, 2½ ins. diam., 4 ins. in the ground and in a mound of stone, 4 ft. base to top, with brass cap mkd.
	T21S R13E ¼ S32 | S33 1961
	Thence by triangulation, desc. about 100 ft. over gentle N. slope. Topography scaled from U. S. G. S. topographic sheets.
49.50	Ledgy wash, drains irregularly E.; asc. about 80 ft. over S. slope.
52.50	Top of small knoll, desc. about 40 ft. over gentle N. slope.
60.00	Wash, drains E.; asc. about 160 ft. over broken SE. slope.
65.00	Road, unimproved, bears E. and W.
72.50	Spur, projects E.; desc. about 120 ft. over rocky NE. slope.
79.00	Wash, 40 lks. wide, 2 ft. deep, drains SE.; asc. about 30 ft. over rocky SW. slope.
82.26	Point for the cor. of secs. 28, 29, 32 and 33 calculated to be on a sectional correction line, extended W. from the cor. of secs. 25, 26, 35 and 36.
	Set an iron post, 30 ins. long, 2½ ins. diam., 10 ins. in the ground and in a mound of stone, 3 ft. base to top, with brass cap mkd.
	T21S R13E S29 | S28 S32 | S33 1961
	Land, rolling. Soil, rocky, loamy clay. Timber, scattered pinon and juniper.

Chains	
	From the cor. of secs. 31 and 32 on the S. bdy. of the Tp.
	N. 0° 03' W., bet. secs. 31 and 32.
	Over rolling land through scattered timber.
	Asc. 20 ft. over gentle S. slope.
5.30	Top of ascent, bears NW. and SE., thence across top.
10.40	Desc. 65 ft. over rocky NE. slope.
15.30	Wash, 1.00 ch. wide, 4 ft. deep, drains E.
19.90	Wash, 35 lks. wide, 10 ft. deep, drains SE.; asc. 185 ft. over rocky broken SW. slope.
24.17	Road, unimproved, bears NW. and E.
39.90	S. rim of mesa, ledge, 15 ft. high, bears NW. and SE.; desc. 65 ft. over gentle N. slope of mesa.
42.56	Point for the ¼ sec. cor. of secs. 31 and 32, at a point 40.00 chs. southing from the point of intersection, with a sectional correction line, extended west from the cor. of secs. 25, 26, 35 and 36.
	Set an iron post 30 ins. long, 2½ ins. diam., 6 ins. in the ground to bedrock, and in a mound of stone, 3½ ft. base to top, with brass cap mkd.
	T21S R13E ¼ S31 | S32 1961
	Continue descent over gentle N. slope.
82.56	Intersect sectional correction line extended W. from cor. secs. 25, 26, 35 and 36.
	Point for the cor. of secs. 29, 30, 31 and 32.
	Set an iron post, 30 ins. long, 2½ ins. diam., 12 ins. in the ground and in a mound of stone 3 ft. base to top, with brass cap mkd.
	T21S R13E S30 | S29 S31 | S32 1961
	Land, rolling. Soil, rocky, sandy clay. Timber, scattered pinon and juniper.
	From the cor. of secs. 28, 29, 32 and 33.
	West, on a sectional correction line, bet. secs. 29 and 32.
	Over mountainous land through scattered timber.
	Desc. 25 ft. over SW. slope.

Chains	
5.10	Wash, 30 lks. wide, 2 ft. deep, drains SE.; asc. 90 ft. over rocky NE. slope.
15.20	Slope changes; asc. 35 ft. along N. slope.
25.40	Head of draw, drains NE.; asc. abruptly 105 ft. over ledgy E. slope.
28.50	E. rim of mesa, bears NE. and SW.; asc. 75 ft. over gentle E. slope.
40.01	Point for the ¼ sec. cor. of secs. 29 and 32. Set an iron post, 30 ins. long, 2½ ins. diam., 8 ins. in the ground to bedrock, and in a mound of stone, 3½ ft. base to top, with brass cap mkd. T21S R13E ¼ S 29 S 32 1961 Continue ascent over gentle E. slope.
44.70	W. rim of mesa, bears N. and S., thence by triangulation, desc. about 160 ft. over steep, rocky W. slope. Topography scaled from U. S. G. S. topographic sheets.
53.30	Wash, in bottom of canyon, drains N.; asc. about 80 ft. over steep E. slope.
54.80	Road, unimproved, bears N. and S.
57.50	Spur, projects NE.; desc. about 40 ft. along N. slope.
61.50	Draw, drains NE.; asc. about 120 ft. over ledgy E. slope.
67.00	E. rim of mesa, bears N. and S.; asc. about 10 ft. over gentle E. slope.
69.35	End triangulation.
69.50	Top of ascent, bears N. and S.; desc. 5 ft. along gentle N. slope.
73.00	Small wash, drains NE.; asc. 15 ft. along gentle N. slope.
80.02	The cor. of secs. 29, 30, 31 and 32. Land, mountainous, broken. Soil, rocky, loamy clay. Timber, widely scattered pinon and juniper.

General Description

Township 21 South, Range 13 East, is located on the San Rafael Reef about 18 miles west of Green River. The east portion is along the San Rafael Reef, and is mostly broken, solid sandstone ledges and knobs, covered with widely scattered scrub pinon and juniper. This portion of the township is drained in an easterly direction, and its elevation is 4,400 feet above sea level in the bottom of canyons, and 6,000 feet on the ridges. The west portion of the township is rolling, broken, desert land, covered with scattered to medium juniper and pinon timber, and drains in a northeasterly direction.

Chains

The soil in this portion is rocky, loamy clay. The elevation is from 5,200 feet to 5,900 ft. above sea level. The only permanent source of water noted in the township is the San Rafael River, that flows through sections 1, 2, 3, 7, 8, 9, 10, 12, 13, 14, 15, 23 and 24. There is an unimproved road north of the river in the north portion of the township, and several unimproved roads in the southwest portion. One mine was noted, and is in section 36.

U. S. GOVERNMENT PRINTING OFFICE 16—28880-8

4-680
(Feb., 1950)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FIELD ASSISTANTS

NAMES	CAPACITY
Rex J. Edwards	Transitman
Morris E. Blackburn	Chainman
Ferrel D. Reynolds	Chainman
Max Asay	Flagman
Parley Pratt	Cornerman
Wallace R. Ott	Transitman
Gary W. Rutledge	Chainman
Daniel R. Bauer	Chainman
Jerald Brindley	Flagman
Gary T. Oviatt	Cornerman

16—53565-2

300

CERTIFICATE OF CADASTRAL ENGINEER

I, Craig P. Sylvester, HEREBY CERTIFY upon honor that, pursuance of special instructions bearing date of the 29th day of June, 1 I have ~~surveyed~~ supervised the dependent resu[illegible] of the south [illegible] and the [illegible] of the east boundary and a portion of the subdivisional lines of T. 21 S. R. 13

of the Salt Lake Meridian, in the State of Utah, which represented in the foregoing field notes as having been executed by me and under my direction; and said survey has been made in strict conformity with said instructions, the Manual of Instructions for Survey of the Public Lands of the United States, and in the specific manner described in the f[illegible] field notes.

Salt Lake City, Utah

March 23, 1962

Craig P. Sylve[illegible] Cadastral Surveyor.

CERTIFICATE OF APPROVAL

BUREAU OF LAND MANAGEMENT,

Washington, D. C., DEC 4 1962, *19*

The foregoing field notes of the ~~survey of~~ dependent resurvey of the south boundary and the survey of the east boundary and a portion of the subdivisional lines of T. 21 S., R. 13 E., Salt Lake Meridian, Utah,

executed by Fred R. [illegible]11 and Glen B. Hatch - Cadastral Surveyors under the supervision of Craig P. Sylvester, Cadastral surveyor having been critically examined and found correct, are hereby approved.

Chi[illegible], Divisi[illegible] of Engineer

CERTIFICATE OF TRANSCRIPT

[illegible], is a true copy of the ori[illegible]

U. S. GOVERNMENT PRINTING OFFICE 16—53585-3

4—679
September 1948)

DEPT OF THE INTERIOR
BUREAU OF LAND MGMT

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

JAN 2 9 10 AM

ORIGINAL

RECEIVED
STATE & LAND OFFICE
SALT LAKE CITY, UTAH

FIELD NOTES

OF THE

SURVEY

OF A PORTION OF THE SUBDIVISIONAL LINES

OF

TOWNSHIP 22 SOUTH, RANGE 13 EAST

Of the SALT LAKE *Meridian,*

the State of UTAH

EXECUTED BY

Fred R. Chappell, Cadastral Surveyor

Under the supervision of Craig P. Sylvester, Cadastral Surveyor

nder special instructions dated June 29, *19*55, *which provided*

r the surveys included under Group No. 361, *approved* July 13, 1955

nd assignment instructions dated April 25, *19*61

Survey commenced July 18, *19*61

Survey completed July 18, *19*61

INDEX DIAGRAM

Township 22 SOUTH, *Range* 13 EAST

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30	29	28	27	26	25
31	32	33	34	35	36

GPO 886119

Chains

The south 5 miles of the east boundary were surveyed by A. D. Ferron in 1881. In 1912, Miller and Clark resurveyed the south 5 miles of the east boundary, and surveyed the north 1 mile of the east boundary, the north boundary, the west boundary, the south boundary and a portion of the subdivisional lines. The north boundary was resurveyed concurrently by Glen B. Hatch.

The following field notes are those of the survey of a portion of the subdivisional lines of T. 22 S., R. 13 E., deemed sufficient in extent to facilitate development of the natural resources and mark the boundaries of those sections that normally are considered state school sections.

The survey was executed with a W. & L. E. Gurley Solar Transit No. 541327 constructed in accordance with the standard instrumental specifications of the Bureau of Land Management. The instrument was in good condition prior to the beginning of the survey and was maintained in proper adjustment throughout the progress of this survey.

Corners on east-west lines were set on the true latitudinal curve. Lines connecting previously established corners were run by random and true method, but for simplification of the record the random lines are omitted from the field notes. In accordance with the intent of the special instructions, all subdivisional corners established are calculated to be at the position they would occupy if the entire township were subdivided.

Measurements herein contained were made with a narrow steel tape, 8 chains in length, graduated every link for the first 100 links and thereafter at intervals of 10 links. The tape was tested by comparison with a one chain standard steel tape and found to be correct. Measurements were made on the slope with the vertical angle of each interval ascertained by a clinometer in good adjustment; horizontal equivalents alone are entered in the field notes. All lines of this survey were run by direct method where the lines were accessible; lines inaccessible were run by traverse or triangulation methods. Distances to topography on lines run by traverse or triangulation are approximately as scaled from U. S. G. S. topographic sheets. The details of such traverses or triangulations have been thoroughly checked and verified, and in order to simplify the record the diagrams and reductions are omitted from these field notes.

The direction of the lines of this survey were determined by reference to true meridians established on line by altitude observations on the sun. The lines were carried forward by sustained angulation being supplemented by other numerous altitude observations on the sun taken throughout the progress of the survey.

The geographic position for the southeast corner of section 2 is at latitude 38° 55' 17.69" N. and longitude 110° 27' 03.22" W. as adjusted from traverses to U.S.G.S. triangulation station "Ernie". located in Sec. 36, T. 23 S., R. 12 E., Salt Lake Meridian, Utah.

The magnetic declination was read at a number of stations throughout the township and the average of these readings was found to be 16° east.

Survey of a Portion of the Subdivision
of Township 22 South, Range 13 East

Beginning at the cor. of secs. 2, 3, 10 and 11, monumented with a 2 in. iron post, set, mkd. and witnessed as described in the official record.

of a Portion of the Subdivision of T. 22 S., R. 13 E.

Chains	
	N. 89° 59' E. bet. secs. 2 and 11.
	Over broken land through scattered scrub timber.
	Asc. 30 ft. along N. slope of bench.
6.50	Small spur, slopes N.; desc. 40 ft. along N. slope.
9.90	Small draw, drains N. 15° W.; asc. 55 ft. over SW. slope.
14.50	W. rim of small bench, bears NW. and SE.; desc. 60 ft. over bench.
19.50	Road, unimproved, bears NE. and SW.
20.90	E. rim of same bench, bears NE. and curves SW.; desc. 335 ft. over SE. slope.
40.00	Point for the ¼ sec. cor. of secs. 2 and 11.
	Set an iron post, 30 ins. long, 2½ ins. diam., 6 ins. in the ground to bedrock, and in a mound of stone, 4 ft. base to top, with brass cap mkd.
	T22S R13E ¼ S 2 S11 1961
	Cor. set on W. edge of wash.
40.20	Wash, drains irregularly E., from S. 70° W.; asc. 10 ft. along N. slope.
51.60	Small spur, slopes N. 2.00 chs. to wash; desc. 105 ft. along N. slope, over series of small spurs and draws, draining N.
70.30	Base of steep, red talus slope, bears NE. and SW.; asc. 65 ft. over NE. slope.
80.00	Point for the cor. of secs. 1, 2, 11 and 12.
	Set an iron post, 30 ins. long, 2½ ins. diam., 10 ins. in the gro to bedrock, and in a mound of stone, 3 ft. base to top, with brass cap mkd.
	T22S R13E S 2 | S 1 S11 | S12 1961
	Land, broken. Soil, rocky, sandy loam. Timber, scattered scrub pinon and juniper.
	N. 0° 01' W., bet. secs. 1 and 2.
	Over broken desert land.
	Desc. 175 ft. over steep, talus NW. slope.
10.20	Wash, 30 lks. wide, 3 ft. deep, drains E. 4.00 chs. to junction; as 25 ft. over S. slope.

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Chains	
12.80	Small spur, slopes E. 4.00 chs. to wash; desc. 60 ft. over N. slope.
15.60	Wash, 40 lks. wide, 3 ft. deep, drains S. 70° E. from N., 4.00 chs. to junction; asc. 45 ft. along bottom of wash.
27.30	Wash changes course, curves SW.; base of steep ascent, bears NW. and SE.; asc. 225 ft. over steep talus SW. slope.
40.00	Point for the ¼ sec. cor. of secs. 1 and 2.
	Set an iron post, 30 ins. long, 2½ ins. diam., 6 ins. in the ground to bedrock, and in a mound of stone, 4 ft. base to top, with brass cap mkd.
	T22S R13E ¼ S2 | S1 1961
	The north portion of this line passes over inaccessible sandstone spires and knobs of the San Rafael Reef, and the dist. was verified by triangulation and traverse from the north boundary. Topography scaled from U. S. G. S. topographic sheets.
	Asc. about 440 ft. over steep, broken SW. slope.
55.50	Spur, slopes SE.; desc. about 40 ft. over NE. slope.
58.00	Wash, drains SE.; asc. about 400 ft. over sandstone ledges on SW. slope.
65.00	Small sandstone spur, slopes SE.; thence along E. slope.
67.50	Small sandstone draw, drains E.; asc. about 40 ft. over SE. slope.
69.50	Small sandstone spur, slopes NE.; desc. about 480 ft. over broken, ledgy N. to NE. slopes.
79.00	Wash, drains E.; asc. about 80 ft. over rocky SE. slope.
83.13	Intersect the N. bdy. of the Tp.
	Point for the closing cor. of secs. 1 and 2.
	Set an iron post, 30 ins. long, 2½ ins. diam., 6 ins. in the ground to bedrock and in a mound of stone, 3 ft. base to top, with brass cap mkd.
	T21S R13E S36 S2 | S1 CC T22S 1961
	From this cor., the cor. of secs. 35 and 36, T. 21 S., R. 13 E., bears N. 89° 48' W., 4.32 chs. dist.; monumented with a 2½ in. iron post, set, mkd. and witnessed as described in the 1961 field notes of the resurvey of the S. bdy. of T. 21 S., R. 13 E.
	Land, broken S. portion; broken sandstone ledges and spires, N. portion. Soil, rocky loam, S. portion; sandstone, N. portion. Timber, none.

Chains

Point for the N. ¼ sec. cor. of sec. 2 on N. bdy, at midpoint bet. the closing cor. of secs. 1 and 2, and the closing cor. of secs. 2 and 3.

Set an iron post, 30 ins. long, 2½ ins. diam., 6 ins. in the ground to bedrock, and in a mound of stone, 4 ft. base, 4 ins. from top, with brass cap mkd.

T21S R13E

¼
S 2
T22S
1961

From this cor., the ¼ sec. cor. of sec. 35, T. 21 S., R. 13 E., bears S. 88° 47' W., 4.32 chs. dist., and is monumented with a 2½ iron post, set, mkd. and witnessed as described in the 1961 field notes of the resurvey of the S. bdy. of T. 21 S., R. 13 E.

General Description

The southwest portion of sec. 2, T. 22 S., R. 13 E., lies just west of the San Rafael Reef, and is broken, desert land covered with scattered scrub pinon and juniper timber. This portion is drained in a north and east direction. The general elevation is 5,200 ft. above sea level. The soil is rocky loam, and loamy clay.

The extreme northeast portion lies on the reef, and is sandstone ledges, knobs and spires. This portion is drained in an easterly direction. There is no timber, and the soil is sandstone in this portion.

There is no permanent water in section 2. There is one unimproved road through the southwest portion of the section.

U. S. GOVERNMENT PRINTING OFFICE 16—25520-2

4-000
(Feb., 1960)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FIELD ASSISTANTS

NAMES	CAPACITY
Rex J. Edwards	Transitman
Morris E. Blackburn	Chainman
Farrel D. Reynolds	Chainman
Max Asay	Flagman
Parley Pratt	Cornerman

308

CERTIFICATE OF CADASTRAL ENGINEER

I, Craig P. Sylvester, HEREBY CERTIFY upon honor pursuance of special instructions bearing date of the 29th day of June, I have [redacted]ised the survey of a portion of the subdivisional lines of T. 22 S., R. 13 E.

of the Salt Lake Meridian, in the State of Utah, which represented in the foregoing field notes as having been executed by me and under my direction; and said survey has been made in strict conformity with said instructions, the Manual of Instructions for Survey of the Public Lands of the United States, and in the specific manner described in the f[illegible] field notes.

Salt Lake City, Utah

March 12, 1962

Craig P. Sylvester, Cadastral Su[illegible]

CERTIFICATE OF APPROVAL

BUREAU OF LAND MANAGEMENT,

Washington, D. C., DEC 4 1962, *19*

The foregoing field notes of the survey of a portion of the subdivisional lines of T. 22 S., R. 13 E., Salt Lake Meridian, Utah,

executed by Fred R. Chappell, Cadastral Surveyor, under the supervision of Craig P. Sylvester, Cadastral Surveyor having been critically examined and found correct, are hereby approved.

Chief, Division of Engineer[illegible]

CERTIFICATE OF TRANSCRIPT

[illegible] the foregoing [illegible] field notes [illegible]

[illegible], [illegible] copy of the original field notes.

U. S. GOVERNMENT PRINTING OFFICE 16 53846-3

4—879
(September 1948)
DEPT OF THE INTERIOR
BUREAU OF LAND MGMT

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

JAN 2 9 10 AM

ORIGINAL

RECEIVED
STATE & LAND OFFICE
SALT LAKE CITY, UTAH

FIELD NOTES

OF

A SURVEY OF A PORTION OF THE SOUTH BOUNDARY

AND

A PORTION OF THE SUBDIVISIONAL LINES

OF

TOWNSHIP 23 SOUTH, RANGE 13 EAST

Of the SALT LAKE *Meridian,*

n the State of UTAH

EXECUTED BY

Fred R. Chappell, Cadastral Surveyor

Glen B. Hatch, Cadastral Surveyor

Craig P. Sylvester, Cadastral Surveyor (Chief of Party)

Under special instructions dated June 29, *19* 55, *which provided*

or the surveys included under Group No. 361, *approved* July 13, 1955

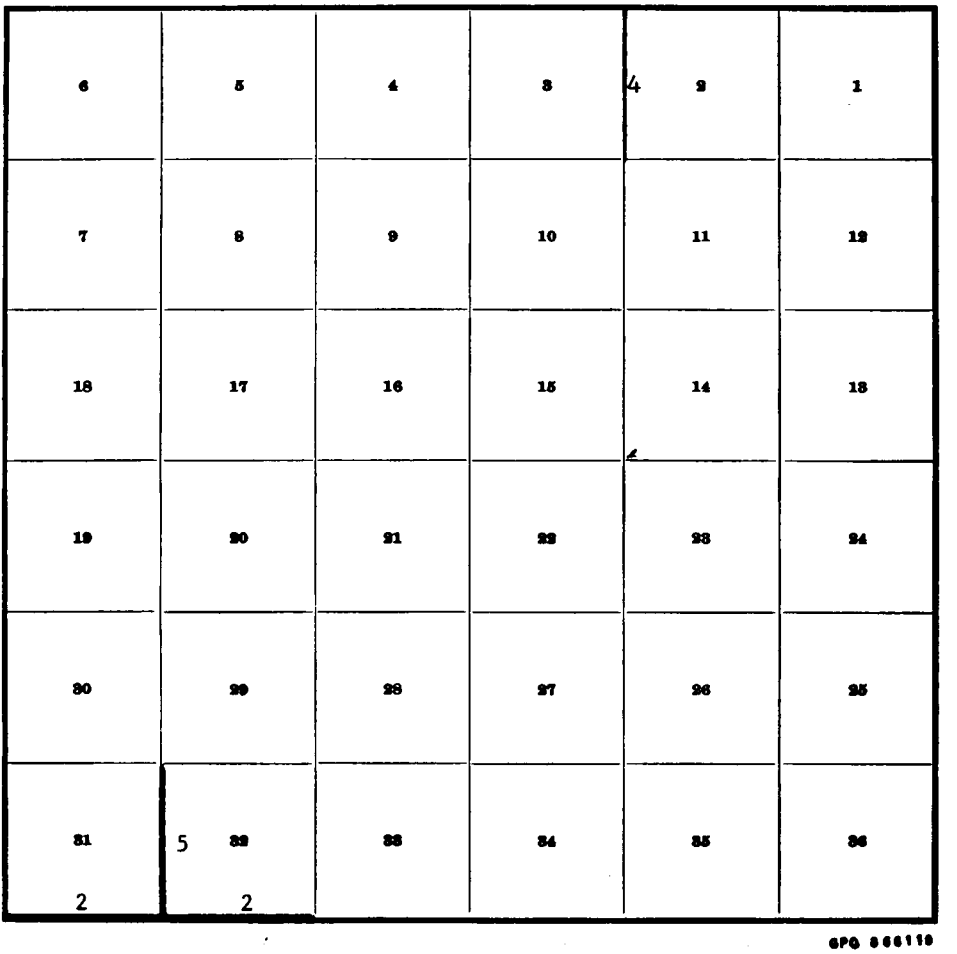
nd assignment instructions dated April 25, *19*61

Survey commenced July 17, *19* 61

Survey completed July 19, *19* 61

INDEX DIAGRAM

Township 23 SOUTH, *Range* 13 EAST



GPO 866110

Lines surveyed by Fred R. Chappell ———

Lines surveyed by Glen B. Hatch ———

Township 23 South, Range 13 East

Chains

The east 4 miles of the south boundary and the east boundary were surveyed by A. D. Ferron in 1881. In 1912, Miller and Clark resurveyed these lines, and surveyed the north and west boundaries, and a portion of the subdivisional lines. In 1955 Andrew Nelson and Phil D. Smith resurveyed the west boundary.

The following field notes are those of a portion of the south boundary and a portion of the subdivisional lines of Township 23 South, Range 13 East, deemed sufficient in extent to facilitate development of the natural resources and mark the boundaries of those sections that normally are considered state school sections.

The survey was executed with W. & L. E. Gurley Solar Transits Nos. 580158 and 541327 constructed in accordance with the standard instrumental specifications of the Bureau of Land Management. The instrument was in good condition prior to the beginning of the survey and was maintained in proper adjustment throughout the progress of this survey.

Corners on east-west lines were set on the true latitudinal curve. Lines connecting previously established corners were run by random and true method, but for simplification of the record the random lines are omitted from the field notes. In accordance with the intent of the special instructions, all subdivisional corners established are calculated to be at the position they would occupy if the entire township were subdivided.

Measurements herein contained were made with a narrow steel tape, 8 chains in length, graduated every link for the first 100 links and thereafter at intervals of 10 links. The tape was tested by comparison with a one chain standard steel tape and found to be correct. Measurements were made on the slope with the vertical angle of each interval ascertained by a clinometer in good adjustment; horizontal equivalents alone are entered in the field notes. All lines of this survey were run by direct method where the lines were accessible; lines inaccessible were run by traverse or triangulation methods. Distances to topography on lines run by traverse or triangulation are approximately as scaled from U. S. G. S. topographic sheets. The details of such traverses or triangulations have been thoroughly checked and verified, and in order to simplify the record the diagrams and reductions are omitted from these field notes.

The direction of the lines of this survey were determined by reference to true meridians established on line by altitude observations on the sun. The lines were carried forward by sustained angulation being supplemented by other numerous altitude observations on the sun taken throughout the progress of the survey.

The geographic position for the southeast corner of section 32 is at latitude 38° 45' 44.31" N. and longitude 110° 30' 22.63" W. as adjusted from traverses to U. S. G. S. triangulation station "Ernie", located in section 36, T. 23 S., R. 12 E.

The magnetic declination was read at a number of stations throughout the township and the average of these readings was found to be 16° East.

Survey of a Portion of the South Boundary of Township 23 South, Range 13 East

Beginning at the true point for cor. of secs. 32 & 33, T. 23 S., R. 13 E., from which its witness cor. bears E. 0.10 chs. dist. monumented with a 3 in. iron post, set, mkd. and witnessed as described in the official record.

West, along the S. bdy. of sec. 32.

ion of the S. . of T. 23 S. R. 13 E.

Chains	
	Over broken sandstone of the San Rafael Reef.
	By triangulation, asc. about 40 ft. over E. slope of sandstone kn Topography scaled from U. S. G. S. topographic sheets.
1.50	Top of sandstone knob; desc. 80 ft. over abrupt W. slope.
2.00	Wash, drains S.; asc. about 240 ft. over broken sandstone E. slop
4.45	The closing cor. of secs. 4 and 5, T. 24 S., R. 13 E., monumented an iron post, 2 ins. diam., marked and witnessed as described in official field notes.
14.00	Spur, slopes SE.; desc. about 120 ft. over SW. slope.
17.50	Small draw, drains SE.; asc. about 200 ft. over NE. slope.
21.20	Slope changes to E. End triangulation; thence asc. 160 ft. over sandstone E. slope.
40.00	Point for the ¼ sec. cor. of sec. 32.
	Set an iron post, 30 ins. long, 2½ ins. diam., over cross (x) cut solid sandstone, and in a mound of stone, 4 ft. base to top, with brass cap mkd.
	T23S R13E ¼ S 32 T 24S 1961
	Thence by triangulation, desc. about 200 ft. over broken W. to SW slopes. Topography scaled from U. S. G. S. topographic sheets.
47.00	Draw, drains S.; asc. about 480 ft. over broken E. to NE. slopes.
60.00	Narrow, knobby, sandstone spur, slopes SE.; desc. about 120 ft. o broken SW. slope.
63.50	Wash, drains SE.; asc. about 200 ft. over broken NE. slope.
70.00	Sandstone spur, slopes SE.; desc. about 80 ft. over broken SW. slope.
73.50	Wash, drains SE.; asc. about 40 ft. over NE. slope.
75.50	Small sandstone spur, slopes SE.; desc. about 40 ft. over SW. slo
79.00	Base of ledges, bears NW. and SE.; asc. about 80 ft. over abrupt slope.
80.00	Point for the cor. of secs. 31 and 32 falls on ledges facing NE., and cannot be monumented.
	Land, broken. Soil, sandstone. Timber, none.
	West, along the S. bdy. of sec. 31.
	Over broken sandstone reef through widely scattered scrub timber.
	Continuing same triangulation, asc. about 200 ft. over abrupt, ledgy NE. slope.
	Top of ledge, bears NW. and curves SW. End triangulation.

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Survey of a Portion of the S. Bdy. of T. 23 S., R. 13 E.

Chains	
3.93	Point selected for the witness cor. of secs. 31 and 32.
	Set an iron post, 30 ins. long, 2½ ins. diam., on solid sandstone, and in a mound of stone, 4 ft. base to top, with brass cap mkd.
	T23S R13E S31 | S32 W C T24S 1961
	Asc. 30 ft. along broken S. slope.
8.20	Ledge, 20 ft. high, bears SE. and curves NE.; desc. abruptly 140 ft. over SW. slope.
12.00	Base of ledges, bears SE. and NW.; asc. 25 ft. along S. slope.
20.00	Wash, drains SE.; asc. 190 ft. over broken SE. to S. slopes.
36.30	Top of ascent, slopes S.; desc. 20 ft. over SW. slope.
40.00	Point for the ¼ sec. cor. of sec. 31.
	Set an iron post, 30 ins. long, 2½ ins. diam., on solid sandstone, and in a mound of stone, 4 ft. base to top, with brass cap mkd.
	T23S R13E ¼ S 31 T24S 1961
	Cor. set on W. edge of small wash, drains SE.
	Asc. 45 ft. over NE. slope.
41.70	Small sandstone spur, slopes SE.; desc. 25 ft. over SW. slope.
45.50	Wash, drains SE.; asc. 250 ft. over broken NE. slope.
53.50	Spur, projects SE.; thence by triangulation, desc. about 150 ft. over broken SW. slope. Topography scaled from U. S. G. S. topographic sheets.
60.50	Wash, drains SE.; asc. about 520 ft. over steep, broken E. slope.
75.50	Top of steep ascent. End triangulation; continue ascent over gentle E. slope.
83.57	Intersect the east boundary of sec. 1, T. 24 S., R. 12 W.
	Point for the closing cor. of Tps. 23 and 24 S., R. 13 E.
	Set an iron post, 30 ins. long, 2½ ins. diam., on solid sandstone, and in a mound of stone, 4 ft. base to top, with brass cap mkd.
	T23S R12E R13E S31 S 6 CC T24S 1961
	From this closing cor. the cor. of Tps. 23 and 24 S., R. 12 E. bears north 13.41 chs. dist. monumented by an iron post 2½ ins. diam., set, mkd. and witnessed as described in the official record.

Chains

From this same closing cor., the original cor. of Tps. 23 and 24 R. 13 E., bears south, 0.65 chs., and is monumented with a 3 in. iron post, set, mkd. and witnessed as described in the field the 1955 survey of the S. bdy. of T. 23 S., R. 12 E. Remark this cor. as follows:

T24S T23S
R12E R13E
S1 | S6

R12E | R13E
T24S
1955
1912

Land, broken.
Soil, sandstone.
Timber, widely scattered scrub pinon and juniper.

The ¼ sec. cor. on the W. bdy. of Sec. 31 which is situated 39.35 N. of above closing Tp. cor. now serves as a witness ¼ cor. from which the true point for ¼ sec. cor. Sec. 31 bears North 0.65 chs.

Survey of a Portion of the Subdivision of T. 23 S., R. 13 E.

The true point for the cor. of secs. 2, 3, 10 and 11 falls on inaccessible point and is witnessed S. 89° 55' E., 1.00 ch. dist. by an iron post, set, mkd. and witnessed as described in the official record.

From the true point for the cor. of secs. 2, 3, 10 and 11.

N. 0° 01' W., bet. secs. 2 and 3.

Over sandstone spires and ribs on San Rafael Reef.

By traverse, asc. about 460 ft. over a series of sandstone spurs and draws, along broken E. slope. Topography scaled from U. S. G. topographic sheets.

23.50 Sandstone spur, slopes NE.; desc. abruptly about 160 ft. over tous NW. slope.

26.50 Sandstone draw, drains NE.; desc. about 280 ft. over broken NE. s

37.50 Wash, drains E.; asc. 80 ft. over steep S. slope.

40.00 Point for the ¼ sec. cor. of secs. 2 and 3 falls on boulder where cor. cannot be monumented.

40.05 Point selected for the witness ¼ sec. cor. of secs. 2 and 3.

Set an iron post, 30 ins. long, 2½ ins. diam., 6 ins. in the gr to bedrock, and in a mound of stone, 4 ft. base to top, with brass cap mkd.

T23S R13E
¼
S3 | S2
W C
1961

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Survey of a Portion of the Subdivision of T. 23 S., R. 13 E.

Chains	
	By traverse, asc. about 520 ft. over abrupt, broken S. to SE. slopes. Topography scaled from U. S. G. S. topographic sheets.
53.00	Slope changes to E.; thence along steep, E. slope of sandstone rib.
79.94	Intersect the N. bdy. of the Tp.
	Point for the closing cor. of secs. 2 and 3 falls on inaccessible steep, E. slope of rib where cor. cannot be monumented.
	From point of intersection the true point for the cor. of secs. 34 and 35, T. 22 S., R. 13 E., not monumented, bears S. 89° 59' W. 0.58 chs. dist.
	From point of intersection, the witness cor. of secs. 34 and 35, T. 22 S., R. 13 E., bears S. 89° 59' W. 2.28 chs. dist. monumented with a 3 ins. iron post, set, mkd. and witnessed as described in the official record.
	Land, extremely rough and broken. Soil, sandstone. Timber, none.
	Point for the N. ¼ sec. cor. of sec. 2 at midpoint and on the N. bdy. of the Tp., falls on precipitous NW. slope where cor. cannot be monumented.
	From this point, the ¼ sec. cor. of sec. 35, T. 22 S., R. 13 E., bears S. 89° 59' W. 0.60 chs. dist., monumented with a 1 in. iron post, set, mkd. and witnessed as described in the official record.
	From the true point for the cor. of secs. 31 & 32 on the S. bdy. of the Tp.
	N. 0° 06' W., bet. secs. 31 and 32.
	Over broken sandstone reef.
	By triangulation, asc. about 40 ft. over NE. slope. Topography scaled from U. S. G. S. topographic sheets.
9.30	Wash, drains SE. from W.; asc. about 120 ft. over SE. slope.
19.00	Spur, slopes E.; desc. about 40 ft. over N. slope.
20.50	Wash, drains E.; asc. about 260 ft. over broken SE. slope.
36.46	End triangulation; continue over SE. slope.
40.00	Point for the ¼ sec. cor. of secs. 31 and 32.
	Set an iron post, 30 ins. long, 2½ ins. diam., on solid sandstone, and in a mound of stone, 3½ ft. base, 4 ins. from top, with brass cap mkd. T23S R13E ¼ S31 | S32 1961
	Asc. 65 ft. over rocky, gentle SE. slope.

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Chains	
49.00	Sandstone ridge, bears E. and W.; desc. 20 ft. over gentle N. s
52.50	S. rim of canyon, ledge, about 400 ft. high, bears E. and W.; by triangulation, desc. abruptly, about 520 ft. over broken, ledgy N. slope. Topography scaled from U.S.G.S. topographic sheets.
58.50	Canyon, drains E.; asc. about 720 ft. over abrupt, broken S. slope
69.00	N. rim of canyon, ledge, about 300 ft. high, bears E. and W. End triangulation. Asc. 30 ft. over gentle SE. slope.
74.10	Top of ascent, slopes E., desc. 140 ft. over abrupt, broken sandstone N. slope.
79.75	The cor. of secs. 29, 30, 31 and 32, monumented with a 3 in. iron post, set, mkd. and witnessed as described in the official record.

Land, rough, broken.
Soil, sandstone, except in canyon, which is rocky sand.
Timber, widely scattered scrub pinon and juniper.

General Description

Section 2, Township 23 South, Range 13 East, is rolling desert l covered with shadscale in the east portion; and solid sandstone and spires in the west portion. The elevation is 4,400 ft. above sea level in the east portion; and 5,200 ft. above sea level in west portion. No permanent sources of water or roads were noted the section.

Sections 31 and 32 are rough, broken mountainous land on the San Rafael Reef, and are mostly solid sandstone soil, with widely scattered scrub pinon and juniper timber. No roads or water were found in these sections. The elevation varies from 5,000 ft. in the east portion, to 6,400 ft. above sea level in the west portion Both portions of the township mentioned above drain in a southeast direction by numerous small sandstone washes and canyons.

4-680
Feb., 1950)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FIELD ASSISTANTS

NAMES	CAPACITY
Gary W. Rutledge	Transitman
Wallace R. Ott	Chainman
Gary T. Oviatt	Chainman
Jeddie J. Judd	Cornerman
Jerald Brindley	Flagman
Rex J. Edwards	Transitman
Ferrel D. Reynolds	Chainman
Morris E. Blackburn	Chainman
Max Asay	Flagman
Parley Pratt	Cornerman

16—53565-2

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CERTIFICATE OF CADASTRAL ENGINEER

I, Craig P. Sylvester, HEREBY CERTIFY upon honor that in pursuance of special instructions bearing date of the 29th day of June, 19[illegible], I have ~~surveyed~~ supervised the survey of a portion of the south boundary and a portion of the subdivisional lines of T. 23 S., R. 13 E.,

of the Salt Lake Meridian, in the State of Utah, which is represented in the foregoing field notes as having been executed by me and under my direction; and that said 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.

Salt Lake City, Utah

February 21, 1962

Craig P. Sylvester

Craig P. Sylvester, Cadastral Engineer

CERTIFICATE OF APPROVAL

BUREAU OF LAND MANAGEMENT,

Washington, D. C., DEC 4 1962, *19*

The foregoing field notes of the survey of a portion of the south boundary and a portion of the subdivisional lines of T. 23 S., R. 13 E., Salt Lake Meridian, Utah

executed by Fred R. [illegible]ell and Glen B. Hatch - Cadastral Surveyors under the supervision of Craig P. Sylvester - Cadastral Surveyor having been critically examined and found correct, are hereby approved.

Chief, Division of Engineer

CERTIFICATE OF TRANSCRIPT

[illegible], is a true copy of the original [illegible]

U. S. GOVERNMENT PRINTING OFFICE 16—53505-P

4—679
tember 1945)

319

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

ORIGINAL

FIELD NOTES

OF THE

RESURVEY OF A PORTION

OF THE SUBDIVISIONAL LINES

AND THE

SURVEY OF THE SUBDIVISIONAL LINES

AND

SMALL TRACT LOTS OF SECTION 27

IN

TOWNSHIP 16 SOUTH, RANGE 7 EAST

Of the SALT LAKE *Meridian,*

the State of UTAH

EXECUTED BY

Boyd S. Owens - Cadastral Surveyor

DEPT. OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APR 1 1963

RECEIVED
STATE LAND OFFICE
SALT LAKE CITY, UTAH

der special instructions dated September 11, *19* 61, *which provided*

the surveys included under Group No. 452, *approved* September 11, 1961

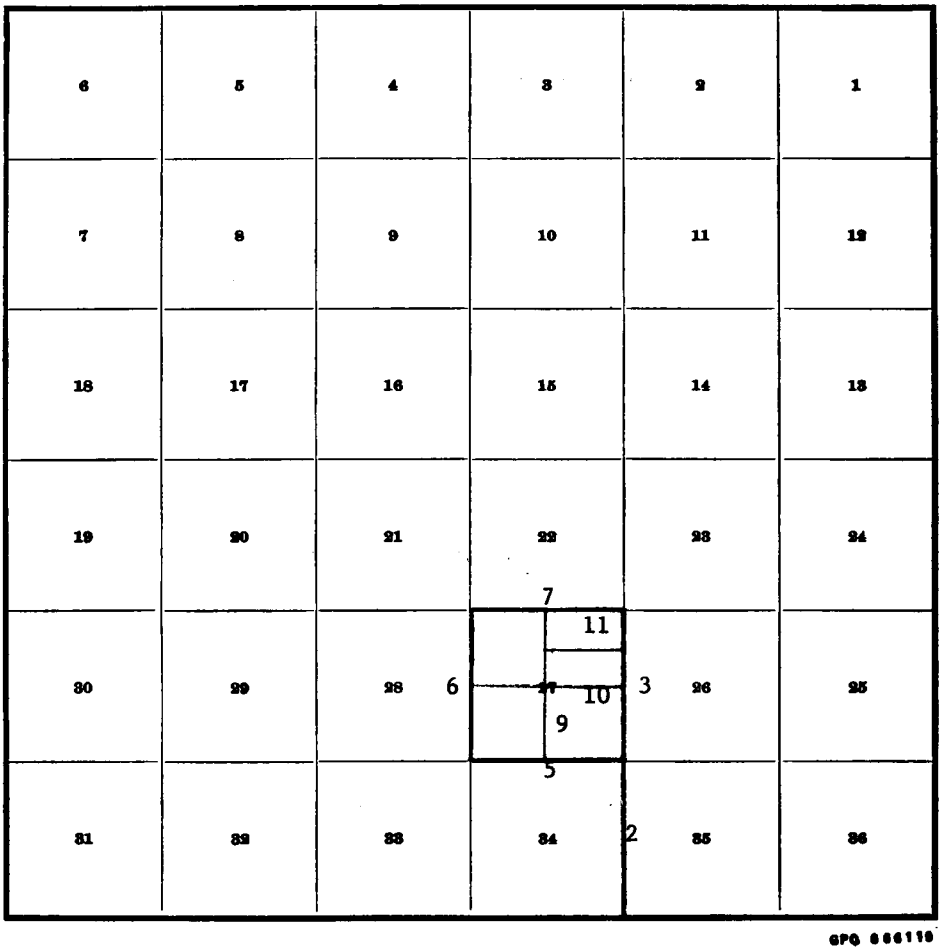
d assignment instructions dated September 12, *19* 61

Survey commenced September 21, *19* 61

Survey completed October 20, *19* 61

INDEX DIAGRAM

Township 16 SOUTH, *Range* 7 EAST



GPO 866116

Original survey ———

Dependent resurvey ———

Township 16 South, Range 7 East

Chains

The Third Standard Parallel South, or the north boundary of the township, was surveyed in 1873 by A. D. Ferron. The east, west, and south boundaries and the subdivision of Township 16 South, Range 7 East, were surveyed by J. C. Dick in 1900. The Third Standard Parallel South, or the north boundary of the township, was also independently resurveyed by J. C. Dick in 1900. A portion of the south boundary of the township was resurveyed in 1946 by Elliot Bird.

The following field notes are those of a dependent resurvey of a portion of the subdivision of Township 16 South, Range 7 East, and the subdivision of section 27, and survey of small tracts in the northeast ¼ of the northeast ¼ of section 27.

This survey was executed at the request of the Lands and Minerals Division of the Bureau of Land Management, Utah State Office.

Before restoring corners, the lines of the original survey were retraced and a diligent search made for any evidence of the original corners or other calls of the original field note record. The rules of proportionate measurement were applied to ascertain the position of lost corners after every reasonable possibility of finding direct evidence for the control of each particular corner had been exhausted.

The survey was executed with a W. & L. E. Gurley Solar Transit Serial No. 591189 and constructed in accordance with the standard instrumental specifications of the Bureau of Land Management. The instrument was in good condition prior to the beginning of the survey and was maintained in proper adjustment throughout the progress of this survey.

Lines connecting previously established corners were run by random and true method, but for simplification of the record the random lines are omitted from the field notes.

Measurements herein contained were made with a narrow steel tape, 8 chains in length, graduated every link for the first 100 links and thereafter at intervals of 10 links. The tape was tested by comparison with a one chain standard steel tape and found to be correct. Measurements were made on the slope with the vertical angle of each interval ascertained by a clinometer in good adjustment; horizontal equivalents alone are entered in the field notes. All lines of this survey were run by direct method where the lines were accessible; lines inaccessible were run by traverse or triangulation methods. Distances to topography on lines run by traverse or triangulation are approximately as scaled from U. S. G. S. topographic sheets. The details of such traverses or triangulations have been thoroughly checked and verified, and in order to simplify the record the diagrams and reductions are omitted from these field notes.

The direction of the lines of this survey were determined by reference to true meridians established on line by hour angle observations on Polaris or altitude observations on the sun. The lines were carried forward by sustained angulation being supplemented by other altitude observations on the sun taken throughout the progress of the survey.

The geographic position for the southeast corner of the township is at latitude 39° 23' north and longitude 111° 06' 39" west as adjusted from traverses to U. S. G. S. triangulation stations within the area.

The magnetic declination was read at a number of stations throughout the township and the average of these readings was found to be north 15° 15' east.

U. S. GOVERNMENT PRINTING OFFICE 16—28530-2 GPO 896618

Chains

Dependent Resurvey of a Portion of the Subdivision of Township 16 South, Range 7 East

Re-establishment of the survey executed by James C. Dick in 1900.

From the cor. of secs. 2, 3, 34 and 35, on the south boundary of the township, which is monumented by an iron post, 2 ins. in diam., projecting 8 ins. above the ground and in a mound of stone, mkd. as described in the official record.

N. 0° 08' W., between secs. 34 and 35.

Over mountainous land, through medium timber and scrub brush.

Asc. 30 ft. along an E. slope.

9.00 Spur, projects NE.; desc. 500 ft. over a N. slope by triangulation.

27.40 North Fork of Meetinghouse Canyon, drains E.; asc. 480 ft. over a S. slope.

38.61 True point for the ¼ sec. cor. of secs. 34 and 35, at proportionate dist. falls on a rock slide where the cor. cannot be perpetuated.

Asc. 50 ft. over a S. slope.

39.81 Point selected for the witness ¼ sec. cor. of secs. 34 and 35.

Set an iron post, 30 ins. long, 2½ ins. in diam., 12 ins. in the ground, to solid rock and in a mound of stone 3½ ft. base to top, with brass cap mkd.

T16S R7E
¼
S34 | S35
W C
1961

Asc. 250 ft. over a S. slope, by triangulation.

44.50 Spur, projects E.; desc. 560 ft. over a NE. slope.

65.00 Gulch, drains E.; asc. 350 ft. over a SE. slope.

73.00 Point selected for the witness cor. of secs. 26, 27, 34 and 35.

Set an iron post, 30 ins. long, 2½ ins. in diam., 10 ins. in the ground, to solid rock and in a mound of stone 3½ ft. base to top, with brass cap mkd.

T16S R7E
W C
S27 | S26
S34 | S35
1961

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

73.30 Spur, projects S. 70° E., thence along a NE. slope.

77.22 True point for the cor. of secs. 26, 27, 34 and 35, at proportionate dist. from the cor. of secs. 2, 3, 34 and 35 and the ¼ sec. cor. of secs. 26 and 27, the ¼ sec. cor. of secs. 26 and 35, and the cor. of secs. 27, 28, 33 and 34, falls at insecure position on a rock slide, where the cor. cannot be perpetuated.

Chains	
	Land, rough, mountainous. Soil, rocky clay, with ledges and slide rock. Timber, medium dense pine, scattered white cedar. Undergrowth, medium grass and black brush.
	N. 0° 05' W., bet. secs. 26 and 27.
	Over mountainous land, through dense timber; desc. 50 ft. along an E. slope.
16.60	Spur, projects NE.; desc. 700 ft. over a N. slope.
34.80	Draw, drains NE.; asc. 100 ft. over sandstone ledges.
38.30	Top of ledges, facing SE.
38.61	The ¼ sec. cor. of secs. 26 and 27, monumented by a rock in place 10x15x20 ins. above ground and mkd. with an X and a ¼ on the W. face, and with a mound of stone around.
	Over the X on the rock, set an iron post, 30 ins. long, 2½ ins. in diam., in a mound of stone, 4½ ft. base to top, with brass cap mkd. T16S R7E ¼ S27|S26 1961
	The above cor. is located on the NE. slope of a sandstone ledge.
	from which
	A pine, 14 ins. in diam., bears S. 25° 45' E., 40 lks. dist., mkd. ¼ S27 BT.
	N. 0° 22' E., beginning new measurement.
	Desc. 100 ft. over a NE. slope.
11.10	Huntington River, 60 lks. wide, 2 ft. deep flows S. 25° E.
13.47	Center line State Highway No. 31, bears N. 76° 38' W. and S. 76° 38' E.
14.48	Telephone line, bears N. 45° W. and S. 45° E.; asc. 105 ft. over a SW. slope.
19.55	Point for the N. 1/16 sec. cor. of secs. 26 and 27, and identical with the SE. cor. of lot 1.
	Set an iron post, 30 ins. long, 2½ ins. in diam., 24 ins. in the ground, with brass cap mkd. T16S R7E N1/16 S27|S26 1961
	from which

Chains

A pinon pine, 7 ins. in diam., bears N. 46° 15' E., 32 lks. dist., mkd. T16S R7E N1/16 S26 BT.

A pinon pine, 14 ins. in diam., bears S. 64° 45' W., 66 lks. dist., mkd. T16S R7E N1/16 S27 BT.

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

Asc. 100 ft. over a S. slope.

24.20 Spur, projects W.; desc. 50 ft. over a NW. slope.

30.10 Ravine, drains S. 80° W.; asc. 190 ft. over a ledgy SE. slope.

36.80 Spur, projects SW.; desc. 80 ft. over a NW. slope.

39.10 The cor. of secs. 22, 23, 26 and 27 and identical with the NE. cor. of lot 1, Sec. 27, which is monumented by a very old wooden post in a mound of stone. This position is in alignment with a fence line west, and is harmoniously related to existing original cors. and has long been recognized by the Forest Service, adjacent land owners and is accepted as the best existing evidence of the position of the original cor.

Set an iron post, 30 ins. long, 2½ ins. diam., 24 ins. in the ground, with brass cap mkd.

T16S R7E
S22 | S23
S27 | S26
1961

from which

A rock, 10x5x4 ins. above ground, bears N. 86° 26' E., 41 lks. dist., mkd. T16S R7E.

A pine, 14 ins. in diam., bears N. 58° 45' E., 45 lks. dist., mkd. T16S R7E S23 BT.

A pine, 12 ins. in diam., bears N. 52° 30' W., 84 lks. dist., mkd. T16S R7E S22 BT.

Raise a mound of stone, 4 ft. base, 2 ft. high, W. of cor.

Land, mountainous.
Soil, rocky clay.
Timber, dense to scattered pinon and white cedar.
Undergrowth, medium-buck brush and grass.

The ¼ sec. cor. of secs. 26 and 35, monumented by a sandstone rock, 16x10x8 ins. firmly set in the ground, and mkd. ¼ on the N. face.

from which an original bearing tree

A pine, 8 ins. in diam., bears N. 24° W., 39 lks. dist., mkd. T16S R7E ¼S26 BT.

Set an iron post, 30 ins. long, 2½ ins. in diam., 24 ins. in the ground, with brass cap mkd.

325

Dependent Resurvey of a Portion of the Subdivision of T. 16 S., R. 7 E.

Chains	
	T16S R7E ¼ S26/S35 1961
	from which
	A pine, 12 ins. in diam., bears S. 66° 30' E., 46 lks. dist., mkd. T16S R7E ¼S35 BT.
	Deposit the original cor. alongside the iron post.
	Raise a mound of stone, 4 ft. base, 3 ft. high, N. of cor.
	S. 89° 24' W., bet. secs. 26 and 35.
	Over mountainous land, through dense timber and sparse undergrowth.
	Desc. 30 ft. along a S. slope.
12.00	Utah State Highway No. 31, bears NW. and SE.; desc. 50 ft. over a SW. slope.
15.00	Leave cedar and pine, enter cottonwood.
27.00	Huntington Creek, 50 lks. wide, 18 ins. deep, flows S. 65° E.
28.00	Leave cottonwood; asc. 850 ft. abruptly over ledges, through scattered pinon and cedar.
39.91	The true point for the cor. of secs. 26, 27, 34 and 35. The witness cor. to same bears S. 0° 08' E., 4.22 chs. dist., previously set and described.
	Land, mountainous. Soil, rocky clay. Timber, dense to scattered pinon, white cedar and cottonwood. Undergrowth, sparse brush and grass.
	From the true point for the cor. of secs. 26, 27, 34 and 35.
	S. 89° 09' W., bet. secs. 27 and 34.
	Over mountainous land, through dense timber and sparse undergrowth.
	Asc. 575 ft. over an E. slope.
17.20	Spur, projects N. 80° E.; desc. 200 ft. over a NW. slope.
36.10	Ravine, drains N. circling to the NE.; asc. 75 ft. over an E. slope.
39.78	Point for the ¼ sec. cor. of secs. 27 and 34, at proportionate dist., there is no remaining evidence of the original cor.
	Set an iron post, 30 ins. long, 2½ ins. in diam., 24 ins. in the ground, with brass cap mkd.
	T16S R7E ¼ S27/S34 1961
	from which

326

Chains

A spruce, 14 ins. in diam., bears N. 3° E., 30 lks. dist., mkd. T16S R7E ¼S27 BT.

A fir, 12 ins. in diam., bears south, 9 lks. dist., mkd. T16S R7E ¼S34 BT.

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

Asc. 1200 ft. over an E. slope.

69.10 Spur, projects N. 50° E.; desc. 250 ft. over a W. slope.

79.56 The cor. of secs. 27, 28, 33 and 34, monumented by a sandstone rock, 16x8x3 ins. firmly set in the ground, and mkd. with 3 notches on the E. and 1 notch on the N. edge.

from which an original bearing tree

A spruce, 14 ins. in diam., bears N. 86° W., 82 lks. dist., mkd. X BT.

At the cor. point

Set an iron post, 30 ins. long, 2½ ins. in diam., 24 ins. in the ground, with brass cap mkd.

T16S R7E
S28 | S27
S33 | S34
1961

from which

A spruce, 5 ins. in diam., bears S. 7° 15' E., 46 lks. dist., mkd. S34 BT.

Deposit the original cor. alongside the iron post.

Raise a mound of stone, 3½ ft. base, 2 ft. high, W. of cor.

Land, mountainous.
Soil, rocky clay.
Timber, dense pine and white cedar.
Undergrowth, sparse scrub brush and grass.

N. 0° 06' W., bet. secs. 27 and 28.

Over badly broken mountain land, through scattered timber and sparse undergrowth.

Desc. 350 ft. over a ledgy NW. slope.

13.90 Spur, projects N. 30° W.; desc. 650 ft. over a NW. slope.

30.40 Enter dense timber, desc. 250 ft. over a NW. slope.

39.69 Point for the ¼ sec. cor. of secs. 27 and 28, at proportionate dist., there is no remaining evidence of the original cor.

Set an iron post, 30 ins. long, 2½ ins. in diam., 24 ins. in the ground, with brass cap mkd.

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Chains	
	T16S R7E ¼ S28 | S27 1961
	from which
	A spruce, 12 ins. in diam., bears N. 35° 15' E., 48 lks. dist., mkd. T16S R7E ¼S27 BT.
	A spruce, 14 ins. in diam., bears N. 64° 15' W., 97 lks. dist., mkd. T16S R7E ¼S28 BT.
	Desc. 400 ft. over a NW. slope.
61.00	Bottom of Rilda Canyon, stream 8 ins. wide, 1 ft. deep, flows N. 60° E.
61.80	Graded road, bears N. 61° E., and S. 61° W.; asc. 300 ft. over a SE. slope.
79.38	The cor. of secs. 21, 22, 27 and 28, monumented by a rock 3x2x1 ft. mkd. with a cross (X).
	No trace could be found of the original bearing object.
	At the cor. point
	Set an iron post, 30 ins. long, 2½ ins. in diam., 24 ins. in the ground, with brass cap mkd.
	T16S R7E S21 | S22 S28 | S27 1961
	from which
	A pine, 14 ins. in diam., bears N. 52° 45' E., 21 lks. dist., mkd. T16S R7E S22 BT.
	Land, mountainous. Soil, rocky clay. Timber, scattered pine, cedar. Undergrowth, sparse brush and grass.
	From the cor. of secs. 22, 23, 26 and 27, previously set and described.
	N. 89° 43' W., bet. secs. 22 and 27.
	Over mountainous land, through dense timber and sparse undergrowth.
	Desc. 170 ft. over a W. slope.
3.80	Telephone line, bears N. and S.
3.909	Center of oiled highway, number 31, at cattle guard, bears N. 26° 13' E. and S. 26° 13' W.
5.602	Intersect the west boundary of the highway right-of-way, and the north side of the right-of-way of an access road, 33 ft. wide. At the point of intersection, set a 1 in. T-iron post, 24 ins. long, 18 ins. in the ground, with cadmium plated cap mkd.

328

S

Chains

AR

Set a wood guard stake 2x2x36 ins. 12 ins. in the ground, in each lot and mkd. with the lot number in which it stands.

6.96 Center of the Huntington River, and true point for the cor. of lots 1 and 2, river at this point is 55 lks. wide, 2 ft. deep, and flows S. 23° 12' W.

7.36 Point selected for the witness cor. of lots 1 and 2.

Set a 1 in. T-iron post, 24 ins. long, 20 ins. in the ground, with cadmium plated cap mkd.

A | R WC
L2 | L1

Set a wood guard stake, 2x2x36 ins., 12 ins. in the ground, in each lot, and mkd. with the lot number in which it stands.

from which

The cor. of a fence, bears N. 15° E., 8 lks. dist.

Asc. 100 ft. over an E. slope.

14.69 The cor. of lots 2 and 3.

Set a 1 in. T-iron post, 24 ins. long, 20 ins. in the ground, with cadmium plated cap mkd.

L/AR
3 L2

Set a wood guard stake, 2x2x36 ins., 12 ins. in the ground, in each lot, and mkd. with the lot number in which it stands.

Asc. 150 ft. over an E. slope.

20.00 Point for the E. 1/16 cor. of secs. 22 and 27, and identical with the cor. of lot 3.

Set an iron post, 30 ins. long, 2½ ins. in diam., 24 ins. in the ground, with brass cap mkd.

T16S R7E
E1/16 S22/S27
1961

Asc. 200 ft. over an E. slope.

28.50 Spur, projects N. 41° 30' E.; desc. 220 ft. over a NW. slope.

40.00 Point for the ¼ sec. cor. of secs. 22 and 27, at proportionate distance, there is no remaining evidence of the original cor.

Set an iron post, 30 ins. long, 2½ ins. in diam., 24 ins. in the ground, with brass cap mkd.

T16S R7E
¼ S22/S27
1961

U. S. GOVERNMENT PRINTING OFFICE 16—88880-2 GPO 8966

Chains	
	from which
	A pine, 5 ins. in diam., bears N. 67° 45' E., 16 lks. dist., mkd. ¼ S22 BT.
	A white cedar, 8 ins. in diam., bears S. 31° 45' W., 50 lks. dist., mkd. ¼ S27 BT.
	Raise a mound of stone, 3½ ft. base, 2 ft. high, N. of cor.
	Desc. 30 ft. over a NW. slope.
49.00	Bottom of Rilda Canyon, stream 10 lks. wide, 1 ft. deep, flows N. 61° E.
52.10	Graded road, bears N. 61° E., and S. 61° W.; asc. 450 ft. along a ledgy SE. slope.
80.00	The cor. of secs. 21, 22, 27 and 28.
	Land, mountainous. Soil, rocky clay. Timber, scattered pine and aspen. Undergrowth, sparse buck brush and grass.
	Survey of the Subdivision of Section 27 of Township 16 South, Range 7 East
	From the ¼ sec. cor. of secs. 27 and 34.
	N. 0° 01' E., on the N. and S. center line of sec. 27.
	Over mountainous land through dense timber and sparse undergrowth.
	Desc. 25 ft. over a N. slope.
1.20	Ravine, drains N. 30° E.; asc. 150 ft. along a broken E. slope.
26.10	Spur, projects E.; desc. 75 ft. over a NE. slope.
29.50	Ravine, drains E.; asc. 100 ft. along a SE. slope.
32.50	Spur, projects N. 30° E.; desc. 150 ft. over a NE. slope.
39.19	Point for the center ¼ sec. cor. of sec. 27.
	Set an iron post, 30 ins. long, 2½ ins. in diam., 24 ins. in the ground, with brass cap mkd. T16S R7E C¼ S27 1961
	Set a wood post, 4x4 ins. 5 ft. long, 1 lk. west of the iron post.
	Desc. 200 ft. over a N. slope.
44.00	Ravine, drains N. 65° E. thence along an E. slope.
58.86	Point for the center north 1/16 sec. cor. of sec. 27.

Chains

Set an iron post, 30 ins. long, 2½ ins. in diam., 14 ins. in the ground, to solid rock and in a mound of stone, 2½ ft. base to top, with brass cap mkd.

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T16S R7E
 N1/16
    C
    |S27
    C
  1961
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Raise a mound of stone, 3½ ft. base, 2 ft. high, W. of the cor.

Desc. 40 ft. along an E. slope.

67.10 Spur, projects N. 41° 30' E.; desc. 500 ft. over a N. slope.

78.53 The ¼ sec. cor. of secs. 22 and 27.

Land, mountainous.
Soil, rocky clay, with sandstone.
Timber, scattered pine, spruce and cedar.
Undergrowth, sparse buck brush and grass.

From the ¼ sec. cor. of secs. 26 and 27.

S. 89° 57' W., on the E. and W. center line of sec. 27.

Asc. 600 ft. over an E., changing to NE. slope.

19.90 Point for the center east 1/16 sec. cor. of sec. 27.

Set an iron post, 30 ins. long, 2½ ins. in diam., 24 ins. in the ground, with brass cap mkd.

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T16S R7E
 E1/16
C____C
  S27
 1961
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from which

A fir, 16 ins. in diam., bears S. 53° 15' E., 23 lks. dist., mkd. T16S R7E CE1/16 S27 BT.

A fir, 14 ins. in diam., bears N. 66° 30' W., 1.38 chs. dist., mkd. T16S R7E CE1/16 S27 BT.

Asc. 600 ft. over a NE. slope.

39.80 The center ¼ sec. cor. of sec. 27, previously set and described.

Desc. 100 ft. over a NW. slope.

42.40 Ravine, drains N. 65° E.; asc. 400 ft. over an E. slope.

52.00 Spur, projects N. 15° E.; desc. 500 ft. over a badly broken NW. slope.

79.69 The ¼ sec. cor. of secs. 27 and 28, previously set and described.

Land, mountainous.
Soil, rocky clay.
Timber, medium fir, and spruce.
Undergrowth, sparse buck brush and grass.

U. S. GOVERNMENT PRINTING OFFICE 16—[illegible]-2 GPO 886

Survey of the Subdivision of Sec. 27, T. 16 S., R. 7 E.

Chains	
	From the center east 1/16 sec. cor. of sec. 27.
	N. 0° 12' E., on the N. and S. center line of the NE. ¼ of sec. 27.
	Over mountainous land, through scattered timber and sparse undergrowth.
	Desc. 525 ft. along a broken NE. slope.
19.64	Point for the NE. 1/16 sec. cor. of secs. 27.
	Set an iron post, 30 ins. long, 2½ ins. in diam., 18 ins. in the ground, to solid rock and in a mound of stone, 3 ft. base to top, with brass cap mkd.
	T16S R7E NE 1/16 S27 1961
	from which
	A pine, 8 ins. in diam., bears S. 60° 30' E., 55 lks. dist., mkd. NE1/16 S27 BT.
22.14	Point for the cor. of lots 3, 10 and 11.
	Set a 1 in T-iron post, 24 ins. long, 18 ins. in the ground, with cadmium plated cap mkd.
	L 3/ L /R 10 A L11
	Set a wood guard stake, 2x2x36 ins., 12 ins. in the ground, in each lot and mkd. with the lot number in which it stands.
	Desc. 50 ft. along an E. slope.
29.20	Ravine, drains E.; asc. 170 ft. over a SE. slope.
39.25	The E. 1/16 cor. of secs. 22 and 27.
	Land, mountainous. Soil, rocky clay. Timber, scattered fir, spruce and cottonwood. Undergrowth, sparse willows, buck brush and grass.
	From the N. 1/16 sec. cor. of secs. 26 and 27.
	N. 89° 55' W., along the east-west center line of the NE. ¼ of sec. 27.
	Over mountainous land, through patches of dense timber and medium undergrowth.
	Desc. 40 ft. over a W. slope.
3.50	Telephone line, bears N. 45° W., and S. 45° E.
4.10	Power line, bears N. 45° W. and S. 45° E.

U. S. GOVERNMENT PRINTING OFFICE 16—85830-2 GPO 896619

332

Chains

4.96 Point for the cor. of lots 1 and 12.

Set a 1 in. T-iron post, 24 ins. long, 18 ins. in the ground and in a collar of stone, with cadmium plated cap mkd.

L12|L1

Set a wood guard stake, 2x2x36 ins. 12 ins. in the ground, in each lot, and mkd. with the lot number in which it stands.

8.405 State Road right-of-way station, a 2 in. iron post mkd. 538+80, elev. 6822.78 bears N. 0.15 chs. dist.

9.04 State Road right-of-way station, a 2 in. iron post, mkd. 538+80, elev. 6821.19 bears N. 14 lks. dist.

9.98 Center of state highway No. 31, on curve bears northwest and southeast.

11.02 State Road right-of-way station, a 2 in. iron post mkd. 538+80, elev. 6809.52 bears north 11 lks. dist.

11.646 State Road right-of-way station, a 2 in. iron post mkd. 538+80, elev. 6806.20 bears north 0.105 chs. dist.

13.27 Left bank of Huntington River.

13.51 True point for the cor. of lots 11 and 12, in the center of the Huntington River, stream of clear water 50 lks. wide, 18 ins. deep, flows S.

14.60 Point selected for the witness cor. of lots 11 and 12.

Set a 1 in. T-iron stake, 24 ins. long, 8 ins. in the ground to solid rock and in a mound of stone, 3 ft. base to top, with cadmium plated cap mkd.

L11|L12 W
C

sc. 120 ft. over an east slope.

19.96 The northeast 1/16 sec. cor. of sec. 27 previously set and described.

Asc. 600 ft. over a broken E. slope.

39.90 The center north 1/16 sec. cor. of sec. 27 previously set and described.

Land, mountainous.
Soil, rocky clay.
Timber, scattered patches of fir, spruce and cottonwood.
Undergrowth, sparse willows, buck brush and grass.

Note: At each lot corner supplementary to the T-iron stake, there are 2x2x36 ins. wood stakes set 12 ins. in the ground, in each lot and mkd. with the lot number in which it stands. No further reference is made to these wood stakes in the following notes.

From the cor. of lots 1 and 12 on the east-west center line of the NE. ¼ of sec. 27.

Chains

North, bet. lots 1 and 12.

Over canyon bottom land, through scattered timber and medium undergrowth.

Asc. 35 ft. along a West slope.

2.523 Point for the cor. of lots 1 and 12.

Set a 1 in. T-iron post, 24 ins. long, 18 ins. in the ground, and in a collar of stone, with cadmium plated cap mkd.

L1
L12 |

West, bet. lots 1 and 12.

4.14 Point for the cor. of lots 1 and 9, on the East right-of-way line of Utah State Highway No. 31.

Set a 1 in. T-iron post, 24 ins. long, 20 ins. in the ground, with cadmium plated cap mkd.

L9 | L1
L12

Thence N. 1° 08' E., on the cord of a simple curve radius 7.18 chs., on east right-of-way line of Utah State Highway No. 31, which curve constitutes the line between lots 1 and 9, (arc distance = 2.042 chs.)

2.042 The beginning of a spiral curve.

Thence N. 21° 13' E. on the cord of a 10 cord spiral curve. S 15° 00', which curve constitutes the line between lots 1 and 9, (arc dist. = 4.149 chs.).

4.149 Point of tangency - Highway right-of-way station, a 2" iron post mkd. 545+046.

Thence N. 26° 13' E., along tangent on east highway right-of-way between lots 1 and 9.

.612 Point for cor. of lots 1 and 5 and 9.

Set a 1 in. T-iron post, 24 ins. long, 20 ins. in the ground, with a cadmium plated cap mkd.

L5 | L1
L9 |

Thence N. 26° 13' E., beginning new measurement, along tangent on east highway right-of-way between lots 1 and 5.

2.489 Highway right-of-way station, a 2 in. iron post mkd. 547+00.

6.63 Point for the cor. of lots 1 and 5. Set a 1 in. T-iron post, 24 ins. long, 20 ins. in the ground, with a cadmium plated cap mkd.

Chains

L5 | L1

N. 63° 55' W., between lots 1 and 5.

1.515 Center of highway right-of-way, and center of oiled road.

3.03 West side of highway right-of-way.

3.80 Point selected for the witness cor. of lots 1 and 5.

Set a 1 in. T-iron post, 24 ins. long, 20 ins. in the ground, with cadmium plated cap mkd.

WL | L1
C4 | L5

4.40 Center of the Huntington River, and true point for the cor. of lots 1 and 5.

From the cor. of lots 3, 10 and 11.

N. 33° E., between lots 3 and 10, and along the W. bdy. of a proposed road right-of-way, to be 33 ft. wide.

3.58 Point for the cor. of lots 3, 8, and 10.

Set a 1 in. T-iron post, 24 ins. long, 18 ins. in the ground, with cadmium plated cap mkd.

L 3 / L8 / L10

N. 33° E., bet. lots 3 and 8, beginning new measurement.

1.42 Angle point, on line, bet. lots 3 and 8.

Set a 1 in. T-iron post, 24 ins. long, 20 ins. in the ground, with cadmium plated cap mkd.

PI >

Thence

N. 15° W.

1.87 Point for the cor. of lots 3, 7 and 8.

Set a 1 in. T-iron post, 24 ins. long, 20 ins. in the ground, with cadmium plated cap mkd.

L 3 \ L7 / L8

N. 15° W., bet. lots 3 and 7. Beginning new measurement.

3.10 Point for the cor. of lots 3, 6 and 7.

Set a 1 in. T-iron post, 24 ins. long, 20 ins. in the ground, with cadmium plated cap mkd.

L 3 < L6 / L7

N. 26° E., bet. lots 3 and 6.

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GPO 89

Chains	
.40	Small spring of clear water, drains E.
2.92	Point for the cor. of lots 3, 4 and 6.
	Set a 1 in. T-iron post, 24 ins. long, 20 ins. in the ground, with cadmium plated cap mkd.
	L 3 / L4 L6
	N. 26° E., bet. lots 3 and 4.
3.34	Point for the cor. of lots 2, 3 and 4.
	Set a 1 in. T-iron post, 24 ins. long, 20 ins. in the ground, with cadmium plated cap mkd.
	L 3 / L2 L4
	N. 26° E., bet. lots 2 and 3.
2.743	Point for the cor. of lots 2 and 3, on the N. bdy. of the sec., and the intersection of north and west sides of a proposed access road, 33 ft. wide.
	Set a 1 in. T-iron post, 24 ins. long, 20 ins. in the ground, with cadmium plated cap mkd.
	L 3 / AR L2
	from which
	The E. 1/16 sec. cor. of secs. 22 and 27 bears N. 89° 43' W., 5.31 chs. dist.
	From the true point for the cor. of lots 11 and 12, which point is in the center of the Huntington River.
	N. 34° 35' E., bet. lots 11 and 12, along the center of the river.
1.142	To turn in course of river and angle point in the line between lots 11 and 12, not monument.
	Thence
	N. 42° 15' W.
2.12	True point for the cor. of lots 9, 10, 11 and 12 in the center of the river, where the cor. cannot be perpetuated.
	Therefore at a point 1.09 chs. W. of the true point set a 1 in. T-iron post, 24 ins. long, 20 ins. in the ground, for the witness cor. of lots 9, 10, 11 and 12, with cadmium plated cap mkd.
	L10 | L9 W L11 | L12C
	From the true point for the cor. of lots 9, 10 and 11 and 12 the cor. of lots 3, 10 and 11, bears W. 5.663 chs. dist., and the cor. of lots 1, 9 & 12 bears E. 5.185 chs. dist.

U. S. GOVERNMENT PRINTING OFFICE 16—62320-2 GPO 896619

336

Chains

From the true point for the cor. of lots 9, 10, 11 and 12.

N. 18° 11' E., bet. lots 9 and 10 along the center of the river.

3.162 True point for the cor. of lots 8, 9, and 10 in the center of the river, where the cor. cannot be perpetuated.

Therefore at a point 30 lks. W. of the true point, set a 1 in. T-iron post, 24 ins. long, 20 ins. in the ground, for the witness cor. of lots 8, 9, 10, with cadmium plated cap mkd.

L8	L9
L10	WC

From the true point for the cor. of lots 8, 9 and 10, the cor. of lots 3, 8 and 10 bears W. 4.70 chs. dist.

From the true point for the cor. of lots 8, 9, and 10.

N. 43° 57' E., bet. lots 8 and 9, along the center of the river.

4.163 True point for the cor. of lots 7, 8 and 9, in the center of the river where the cor. cannot be perpetuated.

Therefore at a point 1.20 chs. W. of the true point, set a 1 in. T-iron post, 24 ins. long, 20 ins. in the ground, for the witness cor. of lots 7, 8 and 9, with cadmium plated cap mkd.

L7	L9
L8	WC

From the true point for the cor. of lots 7, 8 and 9 the cor. of lots 3, 7 and 8, bears W. 7.30 chs. dist.

From the true point for the cor. 7, 8 and 9.

N. 36° 39' E., bet. lots 7 and 9, along the center of the river.

1.777 True point for the cor. of lots 5, 7 and 9, in the center of the river, where the cor. cannot be perpetuated.

Therefore at a point .90 lks. W. of the true point, set a 1 in. T-iron post, 24 ins. long, 20 ins, in the ground, for the witness cor. of lots 5, 7 and 9, with cadmium plated cap mkd.

L	L5W
7	L9C

From the true point for the cor. of lots 5, 7 and 9, the cor. of lots 1, 5 and 9, bears S. 64° 08' E., 2.29 chs. dist.

From the true point for the cor. of lots 5, 7 and 9.

N. 36° 39' E., bet. lots 5 and 7, along the center of the river.

.923 To turn in course of river and angle point in the line bet. lots 5 and 7, not monumented.

Thence

Chains	
	N. 06° 42' W.
.54	To turn in course of river and angle point in the line bet. lots 5 and 7, not monumented.
	Thence
	N. 88° 31' W.
3.30	To turn in course of river and angle point in the line bet. lots 5 and 7, not monumented.
	Thence
	N. 26° 00' W.
.23	True point for the cor. of lots 5, 6 and 7, in the center of the river, where the cor. cannot be perpetuated.
	Therefore at a point 23 lks. W., set a 1 in. T-iron post, 24 ins. long, 20 ins. in the ground, for the witness cor. of lots 5, 6 and 7 with cadmium plated cap mkd.
	L6 | L5 L7 | WC
	From the true point for the cor. of lots 5, 6 and 7, the cor. of lots, 3 6 and 7, bears W. 6.25 chs. dist.
	From the true point for the cor. of lots 5, 6 and 7.
	N. 01° 36' W., bet. lots 5 and 6, along the center of the river.
.926	To turn in course of river, and angle point in the line between lots 5 and 6, not monumented.
	Thence
	N. 41° 34' E.
2.27	True point for the cor. of lots 4, 5 and 6, in the center of the river, where the cor. cannot be perpetuated.
	Therefore at a point 45 lks. W., set a 1 in. T-iron post, 24 ins. long, 20 ins. in the ground, for the witness cor. of lots 4, 5 and 6 with cadmium plated cap mkd.
	L4 / L5 L6 / WC
	From the true point for the cor. of lots 4, 5 and 6, the cor. of lots 3, 4 and 6, bears W. 6.45 chs. dist.
	From the true point for the cor. of lots 4, 5 and 6.
	N. 42° 07' E., bet. lots 4 and 5, along the center of the river.
3.64	True point for the cor. of lots 1 and 5, whose witness cor. bears S. 63° 55' E., 60 lks. dist., previously set and described.
4.05	True point for the cor. of lots 1, 2 and 4 in the center of the river, where the cor. cannot be perpetuated.

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S f

Chains

Therefore at a point 60 lks. W. set a 1 in. T-iron post, 24 ins. long, 18 ins. in the ground, for the witness cor. of lots 1, 2 and 4 with cadmium plated cap mkd.

$$\frac{L2}{L4} \Big/ \frac{L1}{WC}$$

From the true point for the cor. of lots 1, 2 and 4, the cor. of lots 2, 3 and 4, bears W. 7.70 chs. dist.

From the true point for the cor. of lots 1, 2 and 4.

N. 33° 38' E., bet. lots 1 and 2, along the center of the river.

.97 To turn in course of river, and angle point in the line between lots 1 and 2, not monumented.

Thence

N. 23° 12' E.

1.217 South side of proposed access road, 33 ft. wide.

1.76 True point for the cor. of lots 1 and 2, on the N. bdy. of the sec. and the N. side of proposed access road; from the true point the witness cor. bears N. 89° 43' W., .40 lks. dist., previously set and described.

General Description

A considerable variety of land and soil is found in section 27, Township 16 South, Range 7 East. The elevation varies from about 9,000 ft. above sea level in the southwest corner of the section to about 6,700 ft. above sea level, along the Huntington River in the northeast corner of section 27. Most of the section is rough and stony, with rolling and nearly level land, in the canyon bottom adjacent the river. The soil of the bottom land along the Huntington River is an alluvial silt and loam; while much of the soil in the other portion of the section is a rocky clay. There is a scattered to dense growth of white cedar, pinon, pine, fir and spruce over most of the section, with a growth of cottonwood along the canyon bottoms.

The Huntington River crosses the northeastern portion of the section and the section is accessible by Utah State Highway No. 31.

There are no permanent habitations in the section and no mining activity was noted in the area.

4-680
(Feb., 1950)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FIELD ASSISTANTS

NAMES	CAPACITY
Leonard W. Murphy	Transitman
Ashley D. Allen	Chainman
Carl D. Banks	Flagman
William H. Lee	Cornerman

16—63565-2

340

CERTIFICATE OF CADASTRAL ENGINEER

I, Boyd S. Owens, HEREBY CERTIFY upon honor that, i pursuance of special instructions bearing date of the 11th day of September, 1 I have ~~surveyed~~ resurveyed a portion of the subdivisional lines in Township 16 S Range 7 East, and have surveyed the subdivisional lines and small tract lots in section 27, Township 16 South, Range 7 East.

of the Salt Lake Meridian, in the State of Utah, which represented in the foregoing field notes as having been executed by me and under my direction; and said survey has been made in strict conformity with said instructions, the Manual of Instructions for Survey of the Public Lands of the United States, and in the specific manner described in the foregoin field notes.

Salt Lake City, Utah

December 3, 1962

Boyd S. Owens - Cadastral Survey

CERTIFICATE OF APPROVAL

BUREAU OF LAND MANAGEMENT,

Washington, D. C., MAR 12 1963, *19*

The foregoing field notes of ~~the survey of~~ a resurveyed portion of the subdivisional lines in Township 16 South, Range 7 East, and the survey of the subdivisional li and small tracts in section 27, Township 16 South, Range 7 East.

executed by Boyd S. Owens - Cadastral Surveyor

having been critically examined and found correct, are hereby approved.

~~Cadastral Engineering Staff Officer.~~
Chief, Division of Engineerin

I CERTIFY that the foregoing transcript of the field notes ove-described surveys in _____, is py of the original field notes.

Cadastral Engineering Staff Officer.

U. S. GOVERNMENT PRINTING OFFICE 16—53565-8

4—879
ptember 1948)

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UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

ORIGINAL

FIELD NOTES

OF THE

DEPENDENT RESURVEY

OF A PORTION

OF THE SUBDIVISION

OF TOWNSHIP 17 SOUTH, RANGE 7 EAST

Of the SALT LAKE *Meridian,*

the State of UTAH

EXECUTED BY

Allen L. Tuft - Cadastral Surveyor

nder special instructions dated April 6, *19* 62, *which provided*

r the surveys included under Group No. 455, *approved* April 16, 1962

nd assignment instructions dated June 28, *19* 62

Survey commenced July 23, *19* 62

Survey completed July 25, *19* 62

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INDEX DIAGRAM

Township 17 South, *Range* 7 East

6	5	4	3	2	1
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31	32	33	34	35	36

GPO 866119

Township 17 South, Range 7 East

Chains

Sections 3 through 25, inclusive, of Township 17 South, Range 7 East, of the Salt Lake Meridian, Utah, are located within the Manti-LaSal National Forest. The east boundary of the township was surveyed by A. D. Ferron in 1882, and was retraced by J. C. Dick in 1890; the west boundary was surveyed by A. D. Ferron and A. P. Jessen in 1885 and 1892, and was resurveyed by J. C. Dick in 1900; the north boundary, the south boundary and the subdivisional lines were surveyed by J. C. Dick in 1900; sections 31 through 34 were resurveyed by Miller and Bolinger in 1916 and section 2 was resurveyed by Elliot Bird in 1946. The following field notes are those of a dependent resurvey of a portion of the subdivisional lines of the township.

The resurvey was initiated on the official request of the Forest Service, to determine the location of the lines between sections 22 and 27, Township 17 South, Range 7 East, and its relation to certain improvements presumably situated in the northern part of said section 27.

Before restoring the corners, the lines of the original survey were retraced, and a diligent search made for any evidence of the original corners, bearing trees and other calls of the original field note record. When duly identified, the corner positions were remonumented and new bearing trees marked.

The rules of proportionate measurement were applied in order to ascertain the position of lost corners after completing the necessary retracements to connect with the identified corner locations, but not until exhausting every reasonable possibility of finding direct evidence for the control of each particular corner. The true lines, thus adjusted to the identified original evidence, were then duly run and marked through the timber.

The survey was executed with a W. & L. E. Gurley Transit No. 600539. It is equipped with a full vertical circle and improved Smith-type telescope solar attachment, and conforms to the standard instrumental specifications of the Bureau of Land Management. The instrument was maintained in precise adjustment throughout the progress of this survey.

The direction of the lines of the survey were determined by the solar transit method.

Measurements were made with a narrow steel tape, 8 chains in length, graduated every link for the first 100 links and the remainder at intervals of 10 links. The tape was tested by comparison with a one chain standard steel tape and found to be correct. All measurements were made on the slope and the vertical angle of each interval ascertained by a clinometer in good adjustment; the horizontal equivalents alone are entered in the field note record. The lengths of all lines were determined by chaining where possible; otherwise by traverses and triangulation. The details of such traverses or triangulations have been thoroughly verified and in order to simplify the record the diagrams and reductions are ommited from these field notes.

The geographic position for the southeast corner of section 27 is at latitude 39° 18' 30" N. and longitude 111° 06' 51" W. as scaled from a reliable Geological survey map.

The magnetic declination was read at a number of stations and the average of the several readings was found to be 17° 15' E.

U. S. GOVERNMENT PRINTING OFFICE 16—85880-2 GPO 896619

o ubdi is on of T. 17 S. R.

Chains

Dependent Resurvey of a Portion of the Subdivision of
Township 17 South, Range 7 East

Re-establishment of the survey executed by J. C. Dick in 1900.

Beginning at the cor. of secs. 26, 27, 34 and 35, monumented by an iron post 2 ins. in diam., with brass cap mkd.

T17S
S27 | S26
S34 | S35
R7E

The above-described cor. was set by Carl Nyman, Registered Civil Engineer and Land Surveyor, in connection with a survey he made for the Forest Service in 1959.

from which the original bearing trees

A pine, 10 ins. in diam., bears S. 59° E., 71 lks. dist., mkd. T17S R7E S35 BT.

A pine, 14 ins. in diam., bears N. 51° 30' W., 22 lks. dist., mkd. T17S R7E S27 BT.

At the cor. point, remove the iron post already in position.

Set an iron post, 30 ins. long, 2½ ins. in diam., 18 ins. in the ground with brass cap mkd.

T17S R7E
S27 | S26
S34 | S35
1962

from which

A pinon, 6 ins. diam., bears N. 43° E., 38 lks. dist., mkd. T17S R7E S26 BT.

A pinon, 5 ins. diam., bears S. 11° 30' E., 22 lks. dist., mkd. T17S R7E S35 BT.

A pinon, 5 ins. diam., bears S. 89° 30' W., 69 lks. dist., mkd. T17S R7E S34 BT.

A sandstone boulder, 4x5x6 ft. bears N. 27° 40' E., 11 lks. dist., mkd. BO
X

N. 0° 11' W. bet. secs. 26 and 27.

Asc. 100 ft. over a rocky SW. slope through medium timber.

10.00 Slope changes to S.; asc. 800 ft. over a broken ledgy S. slope through scattered timber.

39.93 Point for the ¼ sec. cor. of secs. 26 and 27, at proportionate distance, between the cor. of secs. 26, 27, 34 & 35, and the ¼ sec. cor. of secs. 22 and 23. There is no remaining evidence of the original cor.

U. S. GOVERNMENT PRINTING OFFICE 16—26850-2 GPO 8

Chains	
	Over a cross (x) cut on a sandstone boulder 6x5x1 ft. above ground set an iron post, 30 ins. long, 2½ ins. in diam., in a mound of stone with a 6 ft. base to top, with brass cap mkd. T17S R7E ¼ S27 | S26 1962 from which A pinon, 7 ins. in diam., bears N. 04° W., 126 lks. dist., mkd. ¼ S27 BT. No other accessories available. Asc. 700 ft. over a very rough and broken S. slope, through scattered timber.
65.00	Asc. 150 ft. along a broken SW. slope.
79.86	Point for the cor. of secs. 22, 23, 26 and 27, at proportionate distance between the cor. of secs. 26, 27, 34 and 35, and the ¼ sec. cor. of secs. 22, 23 and the ¼ sec. cor. of secs. 23, 26, and the ¼ sec. cor. of secs. 22, 27. Set an iron post, 30 ins. long, 2½ ins. in diam., 22 ins. in the ground, and in a collar of stone, with brass cap mkd. T17S R7E S22 | S23 S27 | S26 1962 from which' The chimney on the Wilberg mine tool house, bears S. 77° 41' W., 35.61 chs. dist. The scale house at the Wilberg mine, bears S. 70° 29' W., 37.16 chs. dist. Land, steep mountainous. Soil, rocky clay, with a considerable amount of exposed sandstone. Timber, scattered pinon and pine. Undergrowth, scattered bunch grass.
	N. 0° 12' W., between secs. 22 and 23.
	Asc. 50 ft, over a SW. slope.
2.30	Spur, projects W.; desc. 50 ft. over a NW. slope.
5.00	Enter pine timber, desc. 75 ft. over a NW. slope.
13.70	Draw, drains N. 75° W.; asc. 75 ft. along a SW. slope.
20.00	Leave timber, continue along a SW. slope.
23.30	Top of small knoll, thence along a W. slope.
33.10	Wash, 10 lks. wide, 14 ft. deep, drains S. 60° W.
35.20	Dim old dirt road, bears S. 75° E., and N. 70° W.

i o t 1 S. R.

Chains

39.93 The ¼ sec. cor. of secs. 22 and 23 which is monumented by a sandst rock 14x8x6 ins. mkd. ¼ on the W. face and witnessed by a mound of stone, W.

At the cor. point

Set an iron post, 30 ins. long, 2½ ins. diam., 18 ins. in the grou and in a mound of stone, 3 ft. base to top, with brass cap mkd.

T17S R7E
¼
S22 | S23
1962

Deposit the original cor. alongside the iron post.

No bearing trees available.

Land, steep, mountainous.
Soil, rocky clay.
Timber, scattered patches of pinon and pine.
Undergrowth, medium bunch grass.

From the ¼ sec. cor. of secs. 23 and 26 which is monumented by a sandstone rock, 15x10x3 ins., firmly set in the ground, and mkd. ¼ on the N. face.

from which the original bearing trees

A pine, 18 ins. diam., bears S. 44° W., 6 lks. dist., mkd. ¼ S26 BT.

A pine, 18 ins. diam., bears N. 72° W., 12 lks. dist., mkd. ¼ S23 BT.

At the cor. point

Set an iron post, 30 ins. long, 2½ ins. diam., 12 ins. in the groun and in a mound of stone, 3 ft. base to top, with brass cap mkd.

T17S R7E
¼ S23 / S26
1962

from which

A pine, 6 ins. diam., bears S. 43° 30' W., 49 lks. dist., mkd. ¼ S26 BT.

A pine, 8 ins. diam., bears N. 34° W., 85 lks. dist., mkd. ¼ S23 BT.

West, bet. secs. 23 and 26.

Over a gentle NW. slope, through scattered timber.

10.80 Leave timber.

U. S. GOVERNMENT PRINTING OFFICE 16—88690-2 GPO 8

Chains	
16.01	Pipe line, bears S. 60° E., and N. 70° W.
17.40	Dirt road, bears S. 60° E., and N. 70° W.
34.40	Ridge, bears N. 60° W., and S. 65° E.; desc. 110 ft. over a steep W. slope.
39.83	The cor. of secs. 22, 23, 26 and 27, hereinbefore described.
	Land, steep, mountainous. Soil, rocky clay. Timber, scattered patches of pinon. Undergrowth, bunch grass and weeds.
	S. 89° 26' W., bet. secs. 22 and 27.
	Over broken mountainous land, through scattered patches of timber and medium undergrowth.
	Desc. 1400 ft. over a steep ledgy W. slope.
25.50	Bottom of wash in canyon, drains S. 10° W.; asc. 150 ft. along a SE. slope.
31.00	Spur, projects S.; desc. 60 ft. along a SW. slope.
39.93	True point for the ¼ sec. cor. of secs. 22 and 27.
	Set an iron post, 30 ins. long, 2½ ins. diam., 5 ins. in the ground, to solid rock, and in a mound of stone, 5 ft. base to top, with brass cap mkd. T17S R7E ¼ S22/S27 1962
	from which A Juniper, 5 ins. diam., bears S. 11° 30' W., 4.00 chs. dist., mkd. ¼ S27 BT. A Juniper, 12 ins. diam., bears N. 2° 45' W., 72 lks. dist., mkd. ¼ S22 BT.
	From the above cor. the original witness ¼ sec. cor. of secs. 22 and 27, a sandstone rock 16x6x6 ins. firmly set in the ground, and mkd. WC ¼ on the N. face, remarked AM on N. face, bears N. 0° 02' W., 16.40 chs., (record course and dist.)
	from which the original bearing tree A pine, 12 ins. diam., bears N. 39° E., 1.12 lks. dist., mkd. WC ¼ S22 BT. Mound of stone 2 ft. base, 1½ ft. high, N. of the cor.
	N. 89° 49' W., beginning new measurement.
	Desc. 100 ft. over a SW. slope.

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n

Chains

4.80 Bottom of canyon, Grimes Wash, drains S. 70° E.; asc. 1300 ft. over an E. changing to NE. slope.

39.94 The original cor., of secs. 21, 22, 27 and 28, which is monumented b a sandstone rock, 14x6x6 ins. firmly set in the ground, mkd. with 2 notches on the south and 3 notches on the E. edges, and witnessed by a mound of stone, 2 ft. base 1½ ft. high, W. of the cor.

At the cor. point

Set an iron post, 30 ins. long, 2½ ins. diam., 18 ins. in the ground and in a mound of stone, 4 ft. base to top, with brass cap mkd.

T17S R7E

S21	S22
S28	S27

1962

No bearing trees available.

Land, badly broken, mountainous.
Soil, rocky clay, with a considerable amound of exposed sandstone.
Timber, scattered patches of juniper and pinon.
Undergrowth, medium sagebrush and bunch grass.

General Description

The land in the portion of Township 17 South, Range 7 East, in this resurvey is principally badly broken, mountainous terrain with a general southerly exposure. The drainage is all in a general southerly direction. The elevation ranges from about 7100 ft. above sea level to about 9000 ft. above sea level. The soil is principally rocky clay with numerous sandstone outcrops and ledges. There is a scattered growth of sagebrush and bunch grass, pinon, juniper and pine timber over most of the area.

There is a coal mine in the northwest ¼ of the northeast ¼ of sectio 27, as shown by the ties from section corner 22, 23, 26 and 27 to mine improvements.

4-680
(Feb., 1950)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FIELD ASSISTANTS

NAMES	CAPACITY
Jeddie J. Judd	Principal assistant
Arnold G. Mann	Notekeeper
Eugene H. Newman	Chainman
Woodrow W. Campbell	Flagman
Therald L. Leonard	Cornerman

CERTIFICATE OF CADASTRAL ENGINEER

Allen L. Tuft, HEREBY CERTIFY upon honor

of special instructions bearing date of the 6th day of April,

dependently resurveyed a portion of the subdivision of

South, Range 7 East.

of the Salt Lake Meridian, in the State of Utah, which

is represented in the foregoing field notes as having been executed by me and under my direction; and

said survey has been made in strict conformity with said instructions, the Manual of Instructions for

Surveys of the Public Lands of the United States, and in the specific manner described in the fo

field notes.

Salt Lake City, Utah

November 28, 1962

Allen L. Tuft

Allen L. Tuft - Cadastral Survey

CERTIFICATE OF APPROVAL

BUREAU OF LAND MANAGEMENT,

Washington, D. C., APR 8 1963 *, 19.*

The foregoing field notes of the dependent resurvey of a portion of the subdivision of Township 17 South, Range 7 East, Salt Lake Meridian, Utah.

executed by Allen L. Tuft - Cadastral Surveyor

having been critically examined and found correct, are hereby approved.

Chief, Divi on o - - eori

I HEREBY CERTIFY that the foregoing transcript of the field notes of the above-described surveys in

, is a true copy of the original field notes.

serving Staff Off

4—679
(September 1948)

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UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

DEPT. OF THE INTERIOR
BUR. OF LAND MGMT.

ORIGINAL

FIELD NOTES

OF THE

DEPENDENT RESURVEY OF THE NORTH BOUNDARY

AND THE

SURVEY OF THE SOUTH BOUNDARY

AND A

PORTION OF THE SUBDIVISIONAL LINES

OF

TOWNSHIP 17 SOUTH, RANGE 15 EAST

Of the SALT LAKE *Meridian,*

the State of UTAH

EXECUTED BY

Fred R. Chappell, Cadastral Surveyor

Glen B. Hatch, Cadastral Surveyor

Under the Supervision of Craig P. Sylvester, Cadastral Surveyor

nder special instructions dated May 31, *19* 32, *which provided*
upplemental Special Instructions dated May 12, 1954 and September 2, 1960

r the surveys included under Group No. 246, *approved* July 22, 1932
June 28, 1954
Sept. 6, 1960

nd assignment instructions dated April 25, *19* 61

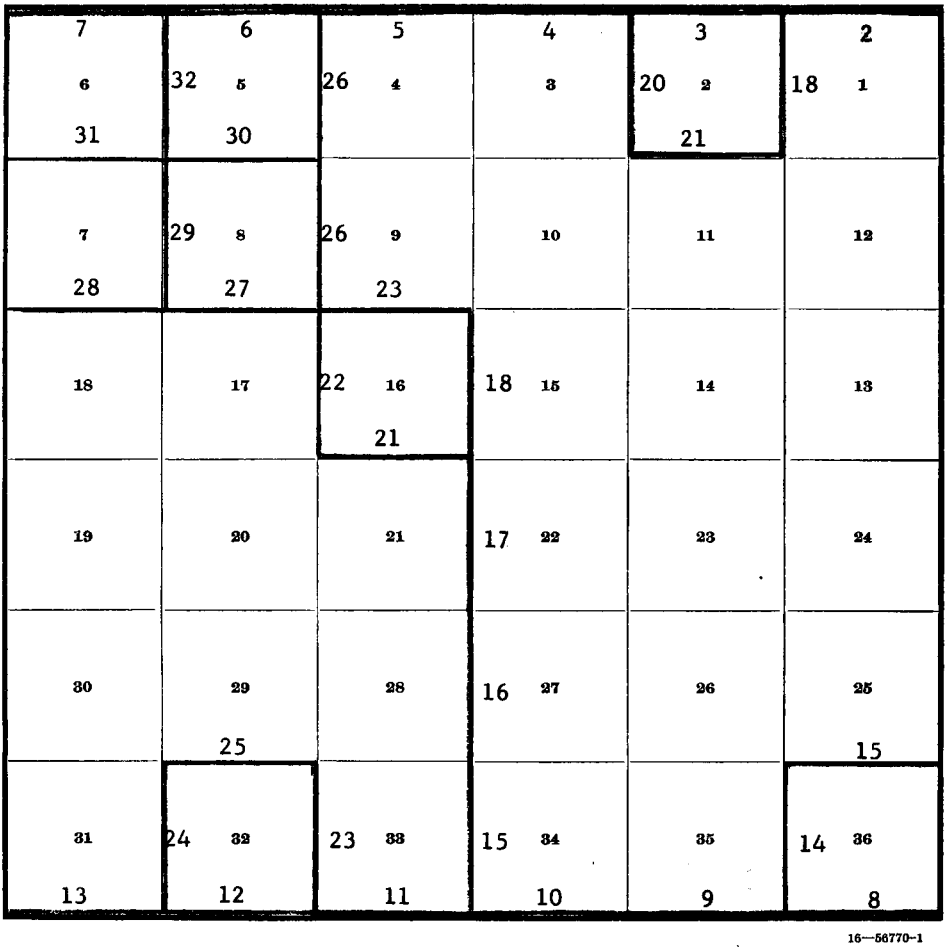
Survey commenced May 29, *19* 61

Survey completed August 4, *19* 61

U. S. GOVERNMENT PRINTING OFFICE 16—56770-1

INDEX DIAGRAM

Township 17 SOUTH, *Range* 15 EAST



16—56770-1

Fred R. Chappell _____

Glen B. Hatch _____

Township 17 South, Range 15 East

Chains

The west boundary was surveyed by J. G. Clark in 1941-42; the east boundary was surveyed by Ralph Gentry in 1914; and the north boundary was surveyed by Harvey D. Heist in 1903.

The following field notes are those of the dependent resurvey of the north boundary and the survey of the south boundary and a portion of the subdivisional lines of T. 17 S., R. 15 E., deemed sufficient in extent to facilitate development of the natural resources and mark the boundaries of those sections that normally are considered state school sections.

Before restoring corners the lines of the original survey were retraced and a diligent search made for any evidence of the original corners or other calls of the original field note record. The rules of proportionate measurement were applied to ascertain the position of lost corners after every reasonable possibility of finding direct evidence for the control of each particular corner had been exhausted.

The survey was executed with W. & L. E. Gurley solar transits Nos. 580158 and 431327 constructed in accordance with the standard instrumental specifications of the Bureau of Land Management. The instrument was in good condition prior to the beginning of the survey and was maintained in proper adjustment throughout the progress of this survey.

Corners on east-west lines were set on the true latitudinal curve. Lines connecting previously established corners were run by random and true method, but for simplification of the record the random lines are omitted from the field notes. In accordance with the intent of the special instructions, all subdivisional corners established are calculated to be at the position they would occupy if the entire township were subdivided.

Measurements herein contained were made with a narrow steel tape, 8 chains in length, graduated every link for the first 100 links and thereafter at intervals of 10 links. The tape was tested by comparison with a one chain standard steel tape and found to be correct. Measurements were made on the slope with the vertical angle of each interval ascertained by a clinometer in good adjustment; horizontal equivalents alone are entered in the field notes. All lines of this survey were run by direct method where the lines were accessible; lines inaccessible were run by traverse or triangulation methods. Distances to topography on lines run by traverse or triangulation are approximately as scaled from U. S. G. S. topographic sheets. The details of such traverses or triangulations have been thoroughly checked and verified, and in order to simplify the record the diagrams and reductions are omitted from these field notes.

The directions of the lines of this survey were determined by reference to true meridians established on line by altitude observations on the sun. The lines were carried forward by sustained angulation being supplemented by other numerous altitude observations on the sun taken throughout the progress of the survey.

The geographic position for the southeast corner of the township is at latitude 39° 17' 45.021" N. and longitude 110° 11' 14.558" W. as adjusted from traverses to U. S. G. S. triangulation station "Smith."

The magnetic declination was read at a number of stations throughout the township and the average of these readings was found to be 16° East.

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Dependent Resurvey, S. Bdy., T. 16 S., R. 15 E.

Chains	
	Dependent Resurvey of the South Boundary of T. 16 S., R. 15 E.
	Reestablishment of the survey Executed by Harvey D. Heist in 1903
	Beginning at the cor. of Tps. 16 and 17 S., Rs. 15 and 16 E., monumented with a sandstone 10x18x24 ins., firmly set, mkd. and witnessed as described in the official record.
	At the cor. point
	Set an iron post, 30 ins. long, 2½ ins. diam., on solid sandstone in a mound of stone, 4 ft. base to top, with brass cap mkd.
	T16S R15E R16E S36 | S31 S 1 | S 6 T17S 1961
	Bury stone cor. alongside iron post.
	N. 89° 41' W., bet. secs. 1 and 36.
	Over broken, mountainous land, through dense timber.
	By triangulation, asc. about 640 ft. over steep NE. slope.
11.00	Approximate dist. to small draw, drains NE.; continue ascent.
39.93	Point for the ¼ sec. cor. of secs. 1 and 36 at proportionate dist.; there is no remaining evidence of the original cor.
	Set an iron post, 30 ins. long, 2½ ins. diam., 6 ins. in the ground and in a mound of stone, 3 ft. base to top, with brass cap mkd.
	T16S R15E ¼ S36 S 1 T17S 1961
	Cor. is set on steep NE. slope on N. side of large boulder.
	Continue ascent.
44.10	End triangulation on ledgy spur, about 50 lks. wide, 50 ft. high, bears S. 60° E., thence by triangulation; asc. about 80 ft. along broken, ledgy S. slope.
55.80	End triangulation on point of ledgy spur about 60 lks. wide, 125 ft. high, projects S., thence by triangulation; desc. abruptly about 480 ft. over broken, ledgy W. slope.
68.00	Approximate dist. to draw, drains SW.; asc. about 80 ft. over ledgy SE. slope.
79.37	End triangulation.
79.86	Point for the cor. of secs. 1, 2, 35 and 36, at proportionate dist.; there is no remaining evidence of the original cor.

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Chains	
	Set an iron post, 30 ins. long, 2½ ins. diam. on solid sandstone and in a mound of stone, 4 ft. base to top, with brass cap mkd. T16S R15E S35 | S36 S 2 | S 1 T17S 1961 Land, broken, mountainous. Soil, rocky sandy loam. Timber, medium dense pine, pinon and juniper.
	N. 89° 41' W., bet. secs. 2 and 35. Over broken, mountainous land, through medium timber. By triangulation, along rocky S. slope.
2.00	Approximate dist. to spur, projects S.; desc. about 480 ft. over broken, ledgy SW. slope.
15.00	Approximate dist. to draw, drains SW.; asc. about 880 ft. over broken, steep, ledgy SE. slope.
33.30	End triangulation on spur, projects S. about 4.00 chs., thence SE. by triangulation; desc. about 560 ft. over steep, ledgy SW. slope.
39.42	End triangulation.
39.93	Point for the ¼ sec. cor. of secs. 2 and 35 at proportionate dist.; there is no remaining evidence of the original cor. Set an iron post, 30 ins. long, 2½ ins. diam., 6 ins. in the ground and in a mound of stone, 3 ft. base to top, with brass cap mkd. T16S R15E ¼ S35 S 2 T17S 1961 Cor. set on broken SW. slope about 320 ft. below spur. By triangulation, continue descent.
48.00	Approximate dist. to draw, drains S.; asc. about 480 ft. over steep, ledgy SE. slope.
59.36	End triangulation on spur projects S., thence by triangulation, desc. about 720 ft. over steep, ledgy W. slope.
77.00	Approximate dist. to draw, drains S.; asc. about 100 ft. over abrupt, ledgy E. slope.
79.43	End triangulation.
79.86	Point for the cor. of secs. 2, 3, 34 and 35, at proportionate dist.; there is no remaining evidence of the original cor. On a steep, ledgy E. slope

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Dependent Resurvey, S. Bdy., T. 16 S., R. 15 E.

Chains	
	Set an iron post, 30 ins. long, 2½ ins. diam., 4 ins. in the ground and in a mound of stone, 4 ft. base to top, with brass cap mkd. T16S R15E S34 | S35 S 3 | S 2 T17S 1961 Land, broken, steep, mountainous. Soil, rocky, sandy loam, with exposed sandstone. Timber, medium dense pinon, juniper and pine.
	N. 89° 41' W., along the S. bdy. of sec. 34; cors. now pertain to T. 16 S., R. 15 E., only. Over broken land, through dense timber. By triangulation, asc. abruptly about 720 ft. over ledgy E. slope.
14.30	End triangulation on spur, projects SE., thence by triangulation, along broken, rocky S. slope.
30.50	Approximate dist. to small spur, projects S.; desc. about 100 ft. over rocky SW. slope.
37.00	Approximate dist. to draw, drains S.; asc. about 140 ft. over rocky SE. slope.
39.93	Point for the original ¼ sec. cor. of secs. 3 and 34, at proportionate dist.; no remaining evidence of the original cor.; this cor. now functions as the ¼ sec. cor. of sec. 34, T. 16 S., R. 15 E., only. On a SE. slope Set an iron post, 30 ins. long, 2½ ins. diam., 8 ins. in the ground and in a mound of stone, 4 ft. base to top, with brass cap mkd. T16S R15E ¼ S34 T17S 1961 Asc. abruptly.
43.70	End triangulation on top of ledge about 50 ft. high, bears N. and S., by triangulation; desc. about 240 ft. over steep, SW. slope.
51.00	Approximate dist. to small draw, drains SW.; desc. about 80 ft. along S. slope.
55.00	Approximate dist. to spur, projects SW.; desc. abruptly about 400 ft. over broken, ledgy W. slope.
64.00	Approximate dist. to Mitchs Canyon, small seep of water, course S.; asc. abruptly about 400 ft. over abrupt ledges on E. slope.
69.00	Approximate dist. to narrow, ledgy spur, projects SE.; desc. about 160 ft. over ledgy SW. slope.
77.50	Approximate dist. to draw, drains SE.; asc. about 80 ft. over steep NE. slope.

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Chains	
78.82	End triangulation.
79.86	Point for the original cor. of secs. 3, 4, 33 and 34, at proportionate dist.; no remaining evidence of the original cor. found; this cor. now functions as the cor. of secs. 33 and 34, T. 16 S., R. 15 E., only. On a steep NE. slope. Set an iron post, 30 ins. long, 2½ ins. diam., 10 ins. in the ground and in a mound of stone, 3 ft. base to top, with brass cap mkd. T16S R15E S33 | S34 T17S 1961 Land, broken, steep and mountainous. Soil, rocky loam and shale. Timber, dense pinon, pine and juniper.
	N. 89° 41' W., along the S. bdy. of sec. 33. Over steep mountainous land, through dense timber and undergrowth. By triangulation, asc. about 1,040 ft. over steep NE. slope.
30.30	End triangulation on divide bet. Mitchs Canyon and Williams Draw, bears irregularly N. and S.; desc. 120 ft. over NW. slope.
38.70	Small draw, drains N.; asc. 30 ft. over NE. slope.
39.93	The ¼ sec. cor. of secs. 4 and 33, monumented with a sandstone 6x30x30 ins., firmly set, mkd. and witnessed as described in the official record; this cor. now functions as the ¼ sec. cor. of sec. 33, T. 16 S., R. 15 E., only. At the cor. point Set an iron post, 30 ins. long, 2½ ins. diam., 18 ins. in the ground and in a collar of stone, brass cap mkd. T16S R15E ¼ S33 T17S 1961 Bury stone cor. alongside iron post.
	S. 89° 45' W., beginning new measurement. Asc. 20 ft. over NE. slope.
2.30	Top of ascent, slopes NW.; desc. 150 ft. over W. slope.
8.40	By triangulation, desc. about 640 ft. over steep, broken NW. slope.
38.94	The cor. of secs. 4, 5, 32 and 33, monumented with a stone 6x15x20 ins.; this cor. now functions as the cor. of secs. 32 and 33, T. 16 S., R. 15 E., only.

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S. ., T. 16 S., R. 15 E.

Chains

from which the original bearing trees,

A pinon, 6 ins. diam., bears N. 64° E., 37 lks. dist.

A pinon, 8 ins. diam., bears S. 48° E., 35 lks. dist.

A pinon, 8 ins. diam., bears S. 34° W., 9 lks. dist.

A pinon, 6 ins. diam., bears N. 79° W., 20 lks. dist.

At the cor. point

Set an iron post, 30 ins. long, 2½ ins. diam., 15 ins. in the ground and in a mound of stone, 3½ ft. base to top, with brass cap mkd.

T16S R15 E
S32|S33
S 4
T17S
1961

Bury stone cor. alongside iron post.

Land, mountainous, steep.
Soil, rocky loam.
Timber, dense pinon, juniper and pine.

S. 89° 46' W., along the S bdy. of sec. 32.

Over gently rolling land, through dense timber.

Desc. 290 ft. over gentle NW. slope.

9.50 Wash, 30 lks. wide, 8 ft. deep, drains N. 80° W.

15.90 Same wash, 40 lks. wide, 10 ft. deep, drains N. 70° W.

23.30 Wash, 20 lks. wide, 3 ft. deep, drains NW.

24.80 Wash, 10 lks. wide, 2 ft. deep, drains NW.

38.00 Small wash, 8 lks. wide, 2 ft. deep, drains NW.

38.34 The ¼ sec. cor. of secs. 5 and 32, monumented with a limestone 4x12x15 ins., firmly set, mkd. and witnessed as described in the official record

from which the original bearing trees,

A pinon, 8 ins. diam., bears N. 38° E., 32 lks. dist.

A pinon, 4 ins. diam., bears S. 25° W., 12 lks. dist.

This cor. now functions as the ¼ sec. cor. of sec. 32, T. 16 S., R. 15 E., only.

At the cor. point

Set an iron post, 30 ins. long, 2½ ins. diam., 10 ins. in the ground and in a mound of stone, 3 ft. base to top, with brass cap mkd.

T16S R15E
¼ S32

T17S
1961

Chains	
	Bury stone cor. alongside iron post.
	S. 89° 55' W., beginning new measurement.
	Over rolling land, through dense timber.
	Asc. 10 ft. over gentle NE. slope.
6.20	Wash, 10 lks. wide, 1 ft. deep, drains N.
8.60	Point of small spur, projects NE.; desc. 100 ft. over gentle NW. slope.
17.30	Wash, 40 lks. wide, 5 ft. deep, drains SW. about 2.00 chs.; thence W.
25.70	Same wash, 50 lks. wide, 3 ft. deep, drains NW.; asc. 30 ft. over NE. slope.
37.50	Top of ascent, slopes N.; desc. 20 ft. over NW. slope.
40.14	The cor. of secs. 5, 6, 31 and 32, monumented with a sandstone 7x12x18 ins., firmly set, mkd. and witnessed as described in the official record; this cor. now functions as the cor. of secs. 31 and 32, T. 16 S., R. 15 E., only,
	from which the original bearing trees,
	A juniper, 4 ins. diam., bears N. 39° E., 13 lks. dist.
	A pinon, 4 ins. diam., bears S. 45° E., 12 lks. dist.
	A juniper, 4 ins. diam., bears S. 68° W., 29 lks. dist.
	A juniper, 6 ins. diam., bears N. 34° W., 111 lks. dist.
	At the cor. point
	Set an iron post, 30 ins. long, 2½ ins. diam., 12 ins. in the ground and in a mound of stone, 3 ft. base to top, with brass cap mkd.
	T16S R15E S31 | S32 S 5 T17S 1961
	Bury stone cor. alongside iron post.
	Land, rolling. Soil, sandy loam. Timber, dense pinon and juniper.
	S. 89° 23' W., along the S. bdy. of sec. 31.
	Over rolling land through dense timber.
	Desc. gentle NW. slope, 130 ft.
14.30	Leave timber, bears N. and SW., enter dense sagebrush.
21.20	Wash, 10 lks. wide, 2 ft. deep, drains NW.
21.80	Small spur, projects NW.
24.70	Wash, 10 lks. wide, 2 ft. deep, drains NW.

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Dependent Resurvey, S. [illegible], T. 16 S., R. 15 E.

31.80 Wash, drains NW.

39.80 Point for the ¼ sec. cor. of secs. 6 and 31 at proportionate dist.; no remaining evidence of the original cor. This cor. now functions as the ¼ sec. cor. of sec. 31, T. 16 S., R. 15 E., only.

Set an iron post, 30 ins. long, 2½ ins. diam., 20 ins. in the ground and in a mound of stone to top, with brass cap mkd.

T16S R15E
¼ S31

T17S
1961

Desc. 30 ft. over gentle NW. slope.

41.50 Road, unimproved, bears NE. and SW.

50.50 Wash, 5 lks. wide, 2 ft. deep, drains W.

61.30 Williams Draw, 100 lks. wide, 5 ft. deep, drains SW.; asc. 100 ft. over rocky SE. slope.

64.30 Enter timber, bears NE. and SW.

77.25 The cor. of Tps. 16 and 17 S., R. 15 E., monumented with a sandstone, 8x12x14 ins., with 6 notches on N., E. and S. faces; notches removed from W. face.

At the cor. point

Set an iron post, 30 ins. long, 2½ ins. diam. on solid sandstone and in a mound of stone, 4 ft. base to top, with brass cap mkd.

T16S
R14E R15E
S36 | S31
S 6
T17S
1961

Bury stone cor. alongside iron post

from which,

The true point for the cor. of Tps. 16 and 17 S., R. 14 E. bears S. 9° 00' W., 16.55 chs. dist.

from which,

Its witness cor. bears N. 89° 41' W., 1.51 chs. dist. and is monumented with a) in. iron post, set, mkd. and witnessed as described in the official record.

Land, rolling.
Soil, sandy.
Timber, dense patches of pinon and juniper.

Survey of the South Boundary of T. 17 S., R. 15 E.

From the cor. of Tps. 17 and 18 S., Rs. 15 and 16 E., monumented with a) in. iron post, set, mkd. and witnessed as described in the official record.

West, bet. secs. 1 and 36.

Chains	
	Over mountainous land, through medium timber.
	Desc. 20 ft. over gentle W. slope.
7.10	Ledge, 10 ft. high, bears N. and S.; desc. 510 ft. over steep, rocky W. slope.
24.40	Wash, 60 lks. wide, 8 ft. deep, drains N.; asc. 180 ft. over steep, rocky E. slope.
35.00	Spur, projects N.; asc. 40 ft. along N. slope.
39.50	Spur, projects N.; desc. 10 ft. over rocky NW. slope.
40.00	Point for the ¼ sec. cor. of secs. 1 and 36.
	Set an iron post, 30 ins. long, 2½ ins. diam., 5 ins. in the ground and in a mound of stone, 4 ft. base, 4 ins. from top, with brass cap mkd.
	T17S R15E ¼ S36 S 1 T18S 1961
	Continue descent.
48.80	Wash, 30 lks. wide, 3 ft. deep in bottom of draw, drains NE.; asc. 260 ft. over rocky NE. slope.
64.80	Ridge, bears N. and S.; desc. 390 ft. over broken, rocky SW. slope.
79.70	Wash, 20 lks. wide, 6 ft. deep, drains N. 85° W.; asc. 10 ft. over NE. slope.
80.00	Point for the cor. of secs. 1, 2, 35 and 36.
	Set an iron post, 30 ins. long, 2½ ins. diam., 15 ins. in the ground and in a mound of stone, 3½ ft. base to top, with brass cap mkd.
	T17S R15E S35 | S36 S 2 | S 1 T18S 1961
	Land, mountainous. Soil, rocky, clay loam. Timber, medium dense pinon and juniper.
	West, bet. secs. 2 and 35.
	Over mountainous land, through scattered timber.
	Desc. 130 ft. over W. slope.
10.10	Wash, 50 lks. wide, 4 ft. deep, used as trail in bottom of Trail Canyon, drains S. 20° W.; asc. 40 ft. over rocky SE. slope.
13.50	Spur, projects S.; desc. 20 ft. over rocky SW. slope.
15.50	Small wash, drains S.; asc. 220 ft. over rocky, ledgy SE. slope.
36.60	Top of ascent, slopes S. 20° W.; desc. 40 ft. over rocky SW. slope.

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S. Bdy., T. 17 S., R. 15 E.

Chains	
40.00	Point for the ¼ sec. cor. of secs. 2 and 35.
	Set an iron post, 30 ins. long, 2½ ins. diam., on solid sandstone and in a mound of stone, 4 ft. base to top, with brass cap mkd.
	T17S R15E ¼ S35 S 2 T18S 1961
	By triangulation, desc. about 400 ft. over broken, ledgy SW. slope.
41.00	Approximate dist. to point of white sandstone ledge, 30 ft. high, bears NW. and E.
54.00	Approximate dist. to wash, drains SW.
69.00	Approximate dist. to main wash, 30 lks. wide, 2 ft. deep, drains S.; asc. about 240 ft. over ledgy NE. slope.
75.00	Approximate dist. to point of small spur, projects SE.; desc. about 20 ft. over SW. slope.
77.00	Approximate dist. to small draw, drains SE.; asc. about 30 ft. over NE. slope.
80.00	Point for the cor. of secs. 2, 3, 34 and 35.
	At base of ledge about 20 ft. high, bears NW. and SE.
	Set an iron post, 30 ins. long, 2½ ins. diam., 15 ins. in the ground and in a mound of stone, 3½ ft. base, 4 ins. from top, with brass cap mkd.
	T17S R15E S34 | S35 S 3 | S 2 T18S 1961
	Land, mountainous. Soil, rocky, loamy clay. Timber, scattered pinon and juniper.
	West, bet. secs. 3 and 34.
	Over mountainous land, through scattered timber.
	Asc. abruptly about 20 ft. over ledge.
.90	Top of ledge, bears NW. and SE.; asc. 80 ft. over rocky NE. slope.
10.70	Spur, projects SE.; thence over rolling land.
14.80	Wash, 10 lks. wide, 1 ft. deep, drains S.
17.40	Wash, 10 lks. wide, 2 ft. deep, drains S.; asc. 90 ft. over rocky SE. slope.
28.50	Ledgy spur, projects SE.; desc. 20 ft. over rocky SW. slope.
37.60	Head of rocky draw, drains S.; asc. 10 ft. over SE. slope.
40.00	Point for the ¼ sec. cor. of secs. 3 and 34.
	On a SE. slope, 30 lks. S. of ledge, 10 ft. high,

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. Survey, S. Bdy., T. 17 S., R. 15 E.

Chains	
	Set an iron post, 30 ins. long, 2½ ins. diam., on solid stone and in a mound of stone, 3½ ft. base to top, with brass cap mkd. T17S R15E ¼ S34/S 3 T18S 1961
	By triangulation, asc. about 240 ft. over broken ledges, sloping SE.
60.00	Approximate dist. to draw, drains SE.; asc. about 560 ft. over steep and broken E. slope.
78.60	Top of white sandstone ledge, 30 ft. high, bears N. and S.; end triangulation.
80.00	Point for the cor. of secs. 3, 4, 33 and 34.
	On a steep, broken E. slope, about 50 ft. below top,
	Set an iron post, 30 ins. long, 2½ ins. diam., 6 ins. in the ground and in a mound of stone, 4 ft. base to top, with brass cap mkd. T17S R15E S33 | S34 S 4 | S 3 T18S 1961
	Land, mountainous. Soil, rocky loamy clay. Timber, scattered pinon and juniper.
	West, bet. secs. 4 and 33.
	Over mountainous land, through scattered timber.
	Asc. abruptly 60 ft. over sandstone ledges.
.70	Top of ledge, 30 ft. high, bears N. and S.
1.80	Point of ledgy mesa projects irregularly N.; thence desc. gentle W. slope.
3.40	Top of ledge, 40 ft. high, bears SE. about 2.00 chs. and NW.; desc. abruptly 410 ft. over steep, rocky SW. slope.
24.80	Rocky draw, 30 lks. wide, drains S.; asc. 150 ft. over rocky, broken SE. slope.
40.00	Point for the ¼ sec. cor. of secs. 4 and 33.
	Set an iron post, 30 ins. long, 2½ ins. diam., 4 ins. in the ground and in a mound of stone, 4 ft. base to top, with brass cap mkd. T17S R15E ¼ S33/S 4 T18S 1961
	Continue ascent.
43.00	Spur, projects S.; desc. 170 ft. over rocky SW. slope.

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, S. Bdy., T. 17 S., R. 15 E.

Chains	
51.40	Top of white sandstone ledge, 30 ft. high, bears SE. and W.
64.10	Draw, drains NW.; asc. 90 ft. over rocky, ledgy NE. slope.
80.00	Point for the cor. of secs. 4, 5, 32 and 33.
	At base of ledge, 15 ft. high, bears NW. and SE.
	Set an iron post, 30 ins. long, 2½ ins. diam., 15 ins. in the ground and in a mound of stone, 3½ ft. base to top, with brass cap mkd.
	T17S R15E S32 | S33 S 5 | S 4 T18S 1961
	Land, mountainous. Soil, rocky sandy loam. Timber, scattered pinon and juniper.
	West, bet. secs. 5 and 32.
	Over mountainous land, through scattered timber.
	Asc. 30 ft. over rocks and ledges on NE. slope.
7.60	Ridge, bears NW. and SE.; desc. 320 ft. over ledgy W. slope.
15.30	Ledge, 30 ft. high, bears NW. and SE.; continue descent over broken SW. slope.
35.00	Draw, drains SW.; asc. 30 ft. over gentle SE. slope.
40.00	Point for the ¼ sec. cor. of secs. 5 and 32.
	Set an iron post, 30 ins. long, 2½ ins. diam., 12 ins. in the ground and in a mound of stone, 3 ft. base to top, with brass cap mkd.
	T17S R15E ¼ S32 S 5 T18S 1961
	Continue ascent.
44.20	Wash, 20 lks. wide, 2 ft. deep, drains S.
47.50	Top of ascent, bears N. and S.; desc. abruptly over ledge 5 ft. high; thence desc. 350 ft. over series of small ledges on W. slope.
68.30	Wash, 30 lks. wide, 3 ft. deep, drains S.; asc. 80 ft. over gentle SE. slope.
70.20	Wash, 5 lks. wide, 3 ft. deep, drains SE.
76.40	Head of draw, drains SE.; asc. 10 ft. over gentle SE. slope.
80.00	Point for the cor. of secs. 5, 6, 31 and 32.
	On a spur, projects S.
	Set an iron post, 30 ins. long, 2½ ins. diam., 18 ins. in the ground and in a mound of stone, 3 ft. base to top, with brass cap mkd.

Survey, S. Bdy., T. 17 S., R. 15 E.

Chains	
	T17S R15E S31 | S32 S 6 | S 5 T18S 1961 Land, mountainous. Soil, rocky loamy clay. Timber, scattered pinon and juniper.
	West, bet. secs. 6 and 31. Over mountainous land, through scattered timber. Desc. 10 ft. over SW. slope.
2.40	Small draw, drains SE.; asc. 20 ft. over gentle SE. slope.
8.70	East rim of Little Park Wash, ledge, 20 ft. high, bears NW. and SE.; desc. abruptly 100 ft. over ledgy SW. slope.
12.50	Little Park Wash, 200 lks. wide, 3 ft. deep, with jeep trail in bottom, drains SE.; asc. abruptly 150 ft. over ledgy E. slope.
16.70	West rim of Little Park Wash, bears irregularly N. and S.; asc. 30 ft. over gentle, rocky NE. slope.
20.80	Point of spur, projects SE.; desc. 110 ft. over rocky NW. slope.
31.00	Draw, drains N.; asc. 380 ft. over steep, rocky NE. slope.
40.00	Point for the ¼ sec. cor. of secs. 6 and 31. On a steep, rocky NE. slope, 90 ft. above draw, Set an iron post, 30 ins. long, 2½ ins. diam., 16 ins. in the ground and in a mound of stone, 3½ ft. base to top of post, with brass cap mkd. T17S R15E ¼ S31 S 6 T18S 1961 Continue ascent.
49.00	Top of ledge, 30 ft. high, bears NW. and SE.; asc. 30 ft. along N. slope.
57.30	Spur, projects NE.; desc. 50 ft. over rocky NW. slope.
58.70	Ledge, 20 ft. high, bears NE. and SW.; continue descent.
61.50	Draw, drains NE.; asc. 200 ft. over NE. slope.
77.77	Intersect the W. bdy. of the Tp. Point for the closing cor. of Tps. 17 and 18 S., R. 15 E. Set an iron post, 30 ins. long, 2½ ins. diam. on solid sandstone and in a mound of stone, 5 ft. base to top, with brass cap mkd.

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Surv · S. Bd . T. 17 S. · R. 15 E.

Chains

T17S
R14E R15E
S36 | S31 / S 6 CC
T18S
1961

From this cor., the cor. of Tps. 17 and 18 S., R. 14 E., bears S. 21.42 chs., and is monumented with a 3 in. iron post, set, mkd. and witnessed as described in the official record.

Land, mountainous.
Soil, rocky loamy clay.
Timber, scattered pinon and juniper.

Survey of the Subdivision of T. 17 S., R. 15 E.

From the cor. of secs. 1, 2, 35 and 36 on the S. bdy. of the Tp., hereinbefore described.

N. 0° 01' W., bet. secs. 35 and 36.

Over mountainous land, through scattered timber.

Desc. 10 ft. over NE. slope.

.30 Wash, 20 lks. wide, 3 ft. deep, drains NW.; asc. 400 ft. over series of small spurs on broken SW. slope.

27.30 Top of ascent, slopes W.; desc. 40 ft. over NW. slope.
34.00 Trail, bears NE. and SW.
34.20 Wash, 10 lks. wide, 1 ft. deep, drains NW.; asc. 50 ft. over gentle SW. slope.

40.00 Point for the ¼ sec. cor. of secs. 35 and 36.

Set an iron post, 30 ins. long, 2½ ins. diam., 8 ins. in the ground and in a mound of stone, 3 ft. base to top, with brass cap mkd.

T17S R15E
¼
S35 | S36
1961

Thence over rolling mesa top.

42.00 Desc. 20 ft. over gentle NE. slope.

45.30 Draw, drains E.; asc. 10 ft. over gentle S. slope.

53.30 Small spur, projects E.; desc. 20 ft. over gentle N. slope.

57.70 Draw, drains E.; asc. 40 ft. over gentle S. slope.

61.80 Top of ascent, bears E. and W.; desc. 10 ft. over gentle N. slope.

67.30 Ledge, 10 ft. high, bears E. and W.; desc. 380 ft. over steep, rocky N. slope.

80.00 Point for the cor. of secs. 25, 26, 35 and 36.

Set an iron post, 30 ins. long, 2½ ins. diam., 6 ins. in the ground and in a mound of stone, 4 ft. base, 4 ins. from top, with brass cap mkd.

U. S. GOVERNMENT PRINTING OFFICE 16—85020-2

Chains	
	T17S R15E S26 | S25 S35 | S36 1961
	Land, mountainous. Soil, rocky loam and shale. Timber, scattered pinon and juniper.
	From the cor. of secs. 25, 30, 31 and 36, monumented with a 3 in. iron post, set, mkd. and witnessed as described in the official record.
	N. 89° 57' W., bet. secs. 25 and 36.
	Over mountainous land, through scattered timber.
	Asc. 320 ft. over ledgy SE. slope.
5.00	Top of ledge, 40 ft. high, bears NE. and SW.
10.20	Top of ledge, 30 ft. high, bears NE. and SW.
19.04	Trail, bears NE. and SW.
21.20	Spur, projects NE.; desc. 170 ft. over rocky NW. slope.
38.70	Wash, 20 lks. wide, 4 ft. deep, drains N.; asc. 250 ft. over rocky NE. slope.
40.07	Point for the ¼ sec. cor. of secs. 25 and 36.
	Set an iron post, 30 ins. long, 2½ ins. diam., 8 ins. in the ground and in a mound of stone, 4 ft. base, to top, with brass cap mkd.
	T17S R15E ¼ S25 S36 1961
	Continue ascent.
47.30	Wash, 40 lks. wide, 5 ft. deep, drains N.
61.00	Wash, 20 lks. wide, 2 ft. deep, drains N.
75.30	Wash, 10 lks. wide, 6 ft. deep, drains N.
78.70	Wash, 10 lks. wide, 4 ft. deep, drains NE.
80.14	The cor. of secs. 25, 26, 35 and 36.
	Land, mountainous. Soil, rocky loam. Timber, scattered pinon and juniper.
	From the cor. of secs. 3, 4, 33 and 34 on the S. bdy. of the Tp., hereinbefore described.
	N. 0° 02' W., bet. secs. 33 and 34.
	Over mountainous land, through medium dense timber.
	Asc. 30 ft. along broken E. slope.

of Subdi ision T. 17 S. R. E.

Chains	
8.90	Rim of mesa, bears SW. and NE.; desc. 10 ft. over gentle NW. slope.
13.60	Rim of mesa, bears NE. and SW.; desc. 130 ft. over rocky NW. slope.
27.20	Draw, drains NW.; asc. 70 ft. over rocky SW. slope.
36.90	Rim of mesa, bears NW. and SE.; thence along mesa top.
40.00	Point for the ¼ sec. cor. of secs. 33 and 34.
	Set an iron post, 30 ins. long, 2½ ins. diam., 20 ins. in the ground and in a collar of stone, with brass cap mkd.

T17S R15E
¼
S33 | S34
1961

	Continue over mesa top.
48.60	Desc. 50 ft. over NW. slope.
54.00	Draw, drains SW.; asc. 50 ft. over SW. slope.
57.80	Rim of mesa, bears NW. and SE.; asc. 70 ft. over gentle SW. slope.
74.20	Top of ascent, bears E. and W.; desc. gentle N. slope.
77.30	Rim of mesa, bears NE. and W.; desc. 80 ft. over steep, rocky N. slope.
80.00	Point for the cor. of secs. 27, 28, 33 and 34.
	Set an iron post, 30 ins. long, 2½ ins. diam., 2 ins. in the ground and in a mound of stone, 4 ft. base to top, with brass cap mkd.

T17S R15E
S28 | S27
S33 | S34
1961

Land, mountainous.
Soil, rocky loam.
Timber, medium dense pinon and juniper.

N. 0° 02' W., bet. secs. 27 and 28.

Over mountainous land, through medium dense timber.

	Desc. 20 ft. over N. slope.
1.70	Desc. 70 ft. along rocky W. slope.
12.80	Draw, drains W.; asc. 70 ft. over rocky SW. slope.
21.90	Rim of mesa, bears NW. and SE.
25.00	Top of ascent, bears E. and W.; desc. 10 ft. over gentle N. slope.
35.30	Rim of mesa, bears E. and W.; desc. 190 ft. over steep, rocky N. slope.
40.00	Point for the ¼ sec. cor. of secs. 27 and 28.
	Set an iron post, 30 ins. long, 2½ ins. diam., 4 ins. in the ground and in a mound of stone, 4 ft. base to top, with brass cap mkd.

U. S. GOVERNMENT PRINTING OFFICE 16—26250-2

Chains	
	T17S R15E ¼ S28 | S27 1961
	Continue descent.
43.00	Draw, drains W.; asc. 160 ft. over rocky SW. slope.
53.80	Spur, projects W.; desc. 370 ft. over broken, rocky NW. slope.
76.20	Draw, drains SW.; asc. 50 ft. over rocky SW. slope.
80.00	Point for the cor. of secs. 21, 22, 27 and 28.
	Set an iron post, 30 ins. long, 2½ ins. diam., 6 ins. in the ground and in a mound of stone, 3½ ft. base to top, with brass cap mkd.
	T17S R15E S21 | S22 S28 | S27 1961
	Land, mountainous. Soil, rocky loam. Timber, medium dense pinon and juniper.
	N. 0° 02' W., bet. secs. 21 and 22.
	Over mountainous land, through medium dense timber.
	Asc. abruptly 230 ft. over broken SE. slope.
8.00	Spur, projects SW.; desc. 80 ft. along W. slope.
20.70	Wash, drains SW.; asc. 170 ft. over steep, rocky SW. slope.
26.80	SW. point of mesa, bears NW. and E.; asc. 20 ft. over mesa top.
40.00	Point for the ¼ sec. cor. of secs. 21 and 22.
	Set an iron post, 30 ins. long, 2½ ins. diam., 20 ins. in the ground and in a collar of stone, with brass cap mkd.
	T17S R15E ¼ S21 | S22 1961
	Continue ascent.
80.00	Point for the cor. of secs. 15, 16, 21 and 22.
	Set an iron post, 30 ins. long, 2½ ins. diam., 6 ins. in the ground and in a mound of stone, 3½ ft. base to top, with brass cap mkd.
	T17S R15E S16 | S15 S21 | S22 1961
	Land, mountainous. Soil, rocky loam. Timber, medium dense pinon and juniper.

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Surve of Subdivision T. 17 S. R

Chains

N. 0° 02' W., bet. secs. 15 and 16.

Over mountainous land, through medium dense timber.

By triangulation, asc. about 80 ft. along W. slope.

4.00 Approximate dist. to slope change; asc. about 80 ft. over rocky SW. slope.

8.00 Approximate dist. to spur, projects SE.; asc. about 40 ft. along E. slope.

12.00 Approximate dist. to slope change; asc. about 100 ft. over steep SE. slope.

18.70 Spur, projects E., end triangulation; asc. 170 ft. over steep SE. slope.

31.70 Ridge, bears irregularly N. and S.; desc. 210 ft. along W. slope.

40.00 Point for the ¼ sec. cor. of secs. 15 and 16 falls on boulder where cor. cannot be perpetuated.

40.10 Point selected for the witness ¼ sec. cor. of secs. 15 and 16.

Set an iron post, 30 ins. long, 2½ ins. diam., 6 ins. in the ground and in a mound of stone, 3½ ft. base to top, with brass cap mkd.

T17S R15E
¼
S16 | S15
W C
1961

Continue descent.

50.60 Draw, drains W.; asc. 210 ft. over SW. slope.

65.80 Top of ascent, slopes W.; desc. 50 ft. along W. slope.

70.50 Draw, drains SW.; asc. 70 ft. over SW. slope.

80.00 Point for the cor. of secs. 9, 10, 15 and 16.

Set an iron post, 30 ins. long, 2½ ins. diam., 1 in. in the ground to bedrock and in a mound of stone, 4 ft. base to top, with brass cap mkd.

T17S R15E
S 9 | S10
S16 | S15
1961

Cor. set at base of ledge, 100 ft. high, on SW. slope.

Land, mountainous.
Soil, rocky loam.
Timber, medium dense pinon and juniper.

From the cor. of secs. 1, 2, 35 and 36 on the N. bdy. of the Tp., monumented with an iron post, set, mkd. and witnessed as described in the 1961 field notes of the dependent resurvey of the S. bdy. of T. 16 S., R. 15 E.

S. 0° 05' W., bet. secs. 1 and 2, on a calculated bearing.

U. S. GOVERNMENT PRINTING OFFICE 16—26680-2

Survey of Subdivision, T. 17 S., R. 15 E.

Chains	
	Over steep, broken land, through scattered timber.
	By triangulation, desc. about 650 ft. over broken, ledgy S. slope.
14.00	Approximate dist. to draw, drains SW.; asc. about 150 ft. over ledgy NW. slope.
18.00	Approximate dist. to spur, projects W.; desc. about 650 ft. over steep, broken SW. slope.
40.72	Point for the ¼ sec. cor. of secs. 1 and 2 at a calculated dist.
	Set an iron post, 30 ins. long, 2½ ins. diam., 8 ins. in the ground and in a mound of stone, 3½ ft. base to top, with brass cap mkd.
	T17S R15E ¼ S 2 | S 1 1961
	Continue descent.
43.10	End one triangulation, beginning of another.
48.00	Approximate dist. to wash, drains SE.; asc. about 50 ft. over N. slope.
53.00	Approximate dist. to spur, projects SE.; desc. 80 ft. over steep S. slope.
56.00	Approximate dist. to wash, in bottom of Mitchs Canyon, 50 lks. wide, 3 ft. deep, with stream of water 3 lks. wide, 3 ins. deep, course SE.; asc. about 160 ft. over steep N. slope.
60.10	End triangulation on spur, projects E.; desc. 20 ft. over S. slope.
60.80	Draw, drains NE.; asc. 20 ft. over NE. slope.
61.70	Spur, projects NE.; desc. 70 ft. over rocky SE. slope.
64.80	Wash, 100 lks. wide, 3 ft. deep, drains NE.; asc. 90 ft. over NW. slope.
69.30	Spur, projects NW.; desc. 20 ft. over SW. slope.
71.70	Wash, drains NE.; asc. 170 ft. over NE. slope.
77.40	Wash, drains NE.; asc. 50 ft. over steep N. slope.
80.68	Point selected for the witness cor. of secs. 1, 2, 11 and 12.
	Set an iron post, 30 ins. long, 2½ ins. diam., 15 ins. in the ground and in a mound of stone, 2 ft. base to top, with brass cap mkd.
	T17S R15E W C S 2 | S 1 S11 | S12 1961
80.72	Point for the cor. of secs. 1, 2, 11 and 12 at a calculated dist. falls on steep, loose bank of spur, where cor. cannot be perpetuated.
	Land, broken, mountainous. Soil, rocky loam. Timber, scattered pinon, juniper and pine.

Survey of Subdivision, T. 17 S., R. 15 E.

Chains	
	From the cor. of secs. 2, 3, 34 and 35 on the N. bdy. of the Tp., monumented with an iron post, set, mkd. and witnessed as described in the 1961 field notes of the dependent resurvey of the S. bdy. of T. 16 S., R. 15 E.
	S. 0° 05' W., on a calculated bearing, bet. secs. 2 and 3.
	Over broken, mountainous land, through dense timber.
	By triangulation, desc. about 80 ft. over broken SE. slope.
4.00	Approximate dist. to draw, drains SE.; asc. about 240 ft. over steep, broken, NE. slope.
12.00	Approximate dist. to rocky spur, projects E.; desc. about 20 ft. over SE. slope.
13.50	Approximate dist. to draw, drains NE.; asc. about 80 ft. over ledgy NE. slope.
20.00	Spur, projects irregularly E. End one triangulation, beginning of another; desc. abruptly about 520 ft. over steep, broken ledges on SE. slope.
35.88	Point selected for the witness ¼ sec. cor. of secs. 2 and 3.
	At base of ledge, 15 ft. high, bears irregularly E. and W. and about 50 ft. above canyon.
	Set an iron post, 30 ins. long, 2½ ins. diam., 6 ins. in the ground and in a mound of stone, 4 ft. base to top, with brass cap mkd.
	T17S R15E ¼ S 3 | S 2 W C 1961
	End triangulation; thence by triangulation, continue descent.
37.00	Approximate dist. to Mitchs Canyon, drains irregularly E.; asc. about 960 ft. over steep, ledgy NW. slope.
41.44	Point for the ¼ sec. cor. of secs. 2 and 3 at a calculated dist. falls on inaccessible ledges and cannot be perpetuated.
62.30	End triangulation on narrow spur, projects NE.; thence by triangulat desc. about 300 ft. over steep, rocky SE. slope.
72.00	Approximate dist. to draw, drains NE.; asc. about 320 ft. over steep, rocky N. slope.
80.35	End triangulation.
81.44	Point for the cor. of secs. 2, 3, 10 and 11 at a calculated dist.
	Set an iron post, 30 ins. long, 2½ ins. diam., 5 ins. in the ground and in a mound of stone, 3½ ft. base to top, with brass cap mkd.
	T17S R15E S 3 | S 2 S10 | S11 1961
	Land, mountainous, broken. Soil, rocky sandy loam. Timber, dense pine, pinon and juniper.

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Survey of Subdivision, T. 17 S., R. 15 E.

Chains	
	From the cor. of secs. 1, 2, 11 and 12.
	S. 89° 53' W., bet. secs. 2 and 11.
	Over broken mountainous land, through medium timber.
	By triangulation, along N. slope.
2.00	Slope changes to NW.; desc. about 150 ft. over steep NW. slope.
5.00	Approximate dist. to draw, drains NE.; asc. about 1,280 ft. over steep, broken, ledgy SE. slope.
35.00	Top of narrow ledge, 50 ft. high, 50 lks. wide, projects N. 20° E. End triangulation; desc. about 880 ft. over steep, ledgy NW. slope.
38.51	Point selected for the witness ¼ sec. cor. of secs. 2 and 11.
	On a broken NW. slope 320 ft. below spur.
	Set an iron post, 30 ins. long, 2½ ins. diam., 6 ins. in the ground and in a mound of stone, 3 ft. base to top, with brass cap mkd.
	T17S R15E ¼ W S 2 C S11 1961
	By triangulation, continue descent.
39.93	Point for the ¼ sec. cor. of secs. 2 and 11 falls on inaccessible ledge and cannot be perpetuated.
55.90	Approximate dist. to draw, drains irregularly NE.; asc. about 240 ft. over steep, rocky NE. slope.
61.90	Approximate dist. to spur, projects NE.; desc. about 80 ft. over steep NW. slope.
70.40	Approximate dist. to draw, drains N.; asc. about 180 ft. over NE. slope.
77.50	Approximate dist. to spur, projects NE.; desc. about 50 ft. over NW. slope.
79.86	The cor. of secs. 2, 3, 10 and 11.
	Land, broken, mountainous. Soil, rocky loam. Timber, medium dense pinon, pine and juniper.
	From the cor. of secs. 15, 16, 21 and 22,
	West, bet. secs. 16 and 21.
	Over mountainous land, through dense timber.
	Desc. 240 ft. over broken W. slope.
21.80	Draw, drains SW.; asc. 80 ft. over SE. slope.
40.00	Point for the ¼ sec. cor. of secs. 16 and 21.
	Set an iron post, 30 ins. long, 2½ ins. diam., 4 ins. in the ground and in a mound of stone, 4 ft. base to top, with brass cap mkd.

Surve of Subdivision, T. 17 S., R. 15 E.

Chains	
	T17S R15E ¼ S16 S21 1961
	By triangulation, asc. about 100 ft. over broken SE. slope.
60.40	Rim of mesa, bears N. and S. 85° W.; end triangulation.
63.70	Rim of mesa, bears NW. and SE.; desc. 50 ft. over SW. slope.
71.50	Spur, projects S.; desc. 50 ft. over W. slope.
77.30	Draw, drains S. 10° W.; asc. 100 ft. over steep E. slope.
80.00	Point for the cor. of secs. 16, 17, 20 and 21.
	Set an iron post, 30 ins. long, 2½ ins. diam., 6 ins. in the ground and in a mound of stone, 3½ ft. base to top, with brass cap mkd.
	T17S R15E S17 | S16 S20 | S21 1961
	Land, broken, mountainous. Soil, rocky loam. Timber, medium dense pinon, pine and juniper.
	N. 0° 03' W., bet. secs. 16 and 17.
	Over mountainous land, through dense timber.
	Asc. 80 ft. along E. slope.
3.40	Top of ascent, bears NE. and SW.; thence over gently rolling land.
37.60	Desc. 210 ft. over N. slope.
40.00	Point for the ¼ sec. cor. of secs. 16 and 17.
	Set an iron post, 30 ins. long, 2½ ins. diam., 10 ins. in the ground and in a mound of stone, 3½ ft. base to top, with brass cap mkd.
	T17S R15E ¼ S17 | S16 1961
	Continue descent.
48.00	Canyon, drains W.; asc. 260 ft. over S. slope.
67.40	Top of ascent, bears NE. and SW.; desc. 130 ft. over NW. slope.
77.80	Wash, drains SW.; asc. 20 ft. over SE. slope.
80.00	Point for the cor. of secs. 8, 9, 16 and 17.
	Set an iron post, 30 ins. long, 2½ ins. diam., 4 ins. in the ground and in a mound of stone, 3½ ft. base to top, with brass cap mkd.
	T17S R15E S 8 | S 9 S17 | S16 1961

U. S. GOVERNMENT PRINTING OFFICE 16—55830-2

Chains	
	Land, mountainous. Soil, rocky, sandy loam. Timber, dense pinon and juniper.
	From the cor. of secs. 9, 10, 15 and 16.
	N. 89° 59' W., bet. secs. 9 and 16,
	Over mountainous land, through medium dense timber.
	By triangulation; desc. about 400 ft. over broken SW. slope.
22.60	Small spur, projects S.; end triangulation; desc. 50 ft. over SW. slope.
28.90	Draw, drains S.; asc. 270 ft. over rocky E. slope.
40.00	Spur, projects S.
40.05	Point for the ¼ sec. cor. of secs. 9 and 16.
	Set an iron post, 30 ins. long, 2½ ins. diam. on solid stone and in a mound of stone, 4 ft. base to top, with brass cap mkd. T17S R15E ¼ S 9 / S16 1961
	By triangulation, desc. about 300 ft. over SW. slope.
51.00	Approximate dist. to small draw, drains SW.; thence along S. slope.
59.00	Approximate dist. to spur, projects SW.; desc. about 200 ft. over SW. slope.
78.00	Approximate dist. to draw, drains SW.; asc. about 20 ft. over SE. slope.
80.10	The cor. of secs. 8, 9, 16 and 17.
	Land, mountainous. Soil, rocky, sandy loam. Timber, medium dense pinon and juniper.
	From the cor. of secs. 4, 5, 32 and 33 on the S. bdy. of the Tp.
	N. 0° 03' W., bet. secs. 32 and 33.
	Over mountainous land, through scattered timber.
	By triangulation, desc. about 250 ft. over ledgy N. slope.
12.00	Approximate dist. to draw, drains W.; asc. about 250 ft. over series of ledges on S. slope.
33.80	End triangulation.
34.20	Spur, projects W.; desc. 150 ft. over ledgy N. slope.
34.70	Ledge, 10 ft. high, bears E. and W.
37.60	Ledge, 40 ft. high, bears E. and W.
40.00	Point for the ¼ sec. cor. of secs. 32 and 33.

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Surve of Subdivision, T. 17 S. R. 15 E.

Chains	
	Set an iron post, 30 ins. long, 2½ ins. diam., 10 ins. in the ground and in a mound of stone, 3½ ft. base to top, with brass cap mkd.
	T17S R15E ¼ S32 | S33 1961
	By triangulation, desc. about 150 ft. over rocky N. slope.
55.00	Approximate dist. to canyon, drains W.; asc. about 300 ft. over rocky SW. slope.
69.60	Ridge, bears irregularly E. and W.; end triangulation; desc. 160 ft. over NW. slope.
80.00	Point for the cor. of secs. 28, 29, 32 and 33.
	On a gentle NW. slope.
	Set an iron post, 30 ins. long, 2½ ins. diam., 6 ins. in the ground and in a mound of stone, 4 ft. base to top, with brass cap mkd.
	T17S R15E S29 | S28 S32 | S33 1961
	Land, mountainous. Soil, rocky, sandy loam. Timber, scattered pinon and juniper.
	From the cor. of secs. 5, 6, 31 and 32 on the S. bdy. of the Tp.
	N. 0° 03' W., bet. secs. 31 and 32.
	Over mountainous land, through scattered timber.
	Asc. 240 ft. over rocky SW. slope.
23.00	Asc. 70 ft. along rocky W. slope.
31.40	Ridge, bears NW. and SE.; desc. 100 ft. over rocky N. slope.
40.00	Point for the ¼ sec. cor. of secs. 31 and 32.
	Set an iron post, 30 ins. long, 2½ ins. diam., 15 ins. in the ground and in a mound of stone, 3 ft. base to top, with brass cap mkd.
	T17S R15E ¼ S31 | S32 1961
	Continue descent.
41.00	Wash, 10 lks. wide, 2 ft. deep, drains W.; asc. 160 ft. over rocky, ledgy S. slope.
46.90	Wash, drains SW.
56.30	Top of ascent, bears irregularly E. and W.; thence over rolling land; timber becomes dense.
71.00	Rocky wash, drains E.

U. S. GOVERNMENT PRINTING OFFICE 16—26830-2

Chains	
80.00	Point for the cor. of secs. 29, 30, 31 and 32.
	On a gentle S. slope.
	Set an iron post, 30 ins. long, 2½ ins. diam., 5 ins. in the ground and in a mound of stone, 4½ ft. base to top, with brass cap mkd. T17S R15E S30 | S29 S31 | S32 1961
	Land, mountainous and rolling. Soil, rocky, sandy loam. Timber, scattered to dense pinon and juniper.
	From the cor. of secs. 28, 29, 32 and 33.
	West, bet. secs. 29 and 32.
	Over rolling land, through scattered timber.
	By triangulation, desc. about 10 ft. over NW. slope.
1.00	Small wash, drains NW.; asc. about 20 ft. over NE. slope.
6.00	Approximate dist. to spur, projects NE.; desc. about 100 ft. over NW. slope.
20.00	Approximate dist. to wash, drains SW.; asc. about 100 ft. over SE. slope.
33.00	Approximate dist. to spur, projects SE.; desc. about 40 ft. over SW. slope.
38.00	Approximate dist. to wash, 40 lks. wide, 2 ft. deep, drains SE.; asc. about 30 ft. over NE. slope.
39.99	Point for the ¼ sec. cor. of secs. 29 and 32.
	Set an iron post, 30 ins. long, 2½ ins. diam., 10 ins. in the ground and in a mound of stone, 3 ft. base to top, with brass cap mkd. T17S R15E ¼ S29 S32 1961
	Continue ascent.
40.90	Spur, projects SE.; end triangulation; desc. 30 ft. over SW. slope.
47.00	Wash, 20 lks. wide, 3 ft. deep, drains SE.; asc. 150 ft. over rocky NE. slope.
57.20	Spur, projects SE.; asc. 10 ft. along S. slope.
70.00	Spur, projects S.; desc. 30 ft. over W. slope.
74.70	Ledgy wash, 40 lks. wide, 3 ft. deep, drains SE.; asc. 40 ft. over gentle E. slope.
79.98	The cor. of secs. 29, 30, 31 and 32.

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of Subdivision T. 17 S. R. 15 E.

Land, rolling.
Soil, sandy loam.
Timber, scattered , E. portion; dense, W. portion.

From the cor. of secs. 8, 9, 16 and 17.

N. 0° 03' W., bet. secs. 8 and 9.

Over mountainous land, through dense timber.

Asc. 30 ft. over SW. slope.

2.50 Spur, projects SW.; desc. 70 ft. over NW. slope.

7.30 Wash, drains SW. from NW.; asc. 80 ft. over SW. slope.

23.50 Small spur, projects NW.; desc. 5 ft. over NW. slope.

26.70 Same wash, drains SW.; asc. 530 ft. over broken SW. slope.

40.00 Point for the ¼ sec. cor. of secs. 8 and 9.

On a broken SW. slope about 2.00 chs. below white rocks and 180 ft. above wash.

Set an iron post, 30 ins. long, 2½ ins. diam., 4 ins. in the ground and in a mound of stone, 4 ft. base to top, with brass cap mkd.

T17S R15E
¼
S 8 | S 9
1961

Continue ascent.

65.50 Top of rocky knob, on spur, projects SW.; thence by triangulation, desc. about 200 ft. over abrupt and broken NW. slope.

72.00 Approximate dist. to bottom of descent, slopes W.; thence along broken W. slope.

80.00 Point for the cor. of secs. 4, 5, 8 and 9.

Set an iron post, 30 ins. long, 2½ ins. diam., 3 ins. in the ground and in a mound of stone, 4 ft. base to top, with brass cap mkd.

T17S R15E
S 5 | S 4
S 8 | S 9
1961

Land, mountainous and broken.
Soil, rocky sandy loam.
Timber, dense pinon and juniper.

N. 0° 03' W., bet. secs. 4 and 5.

Over broken land, through dense timber.

Asc. abruptly 190 ft. over sandstone ledges on steep SW. slope.

4.70 Top of ascent, ledge, bears NW. and SE.; desc. 175 ft. over broken NE. slope.

Chains	
15.10	Draw, drains SE.; asc. 300 ft. over broken, ledgy SW. slope.
28.10	Spur, projects SW.; continue ascent.
36.34	Point selected for the witness ¼ sec. cor. of secs. 4 and 5.
	Set an iron post, 30 ins. long, 2½ ins. diam., 4 ins. in the ground and in a mound of stone, 4 ft. base to top, with brass cap mkd.
	T17S R15E ¼ S 5 | S 4 W C 1961
	By triangulation, asc. about 400 ft. over steep, ledgy S. slope.
40.00	Point for the ¼ sec. cor. of secs. 4 and 5 falls on inaccessible ledge and cannot be perpetuated.
47.00	Approximate dist. to spur, projects SE.; desc. about 300 ft. over broken, ledgy NW. slope.
58.00	Approximate dist. to bottom of descent, drains W.; asc. about 400 ft. over broken, ledgy SW. slope.
66.00	Spur, projects W.; end triangulation; thence by triangulation, desc. about 450 ft. over steep, ledgy NW. slope.
82.44	Intersect the N. bdy, of the Tp.
	Point for the closing cor. of secs. 4 and 5.
	Set an iron post, 30 ins. long, 2½ ins. diam., 6 ins. in the ground and in a mound of stone, 4 ft. base to top, with brass cap mkd.
	T16S S32 S 5 | S 4 C C T17S R15E 1961
	From this cor., the cor. of secs. 32 and 33, T. 16 S., R. 15 E. bears N. 89° 46' E., 0.82 chs., monumented with an iron post, set, mkd. and witnessed as described in the 1961 field notes of the dependent resurvey of the S. bdy. of T. 16 S., R. 15 E.
	Land, broken, steep. Soil, rocky sand, exposed sandstone. Timber, dense pinon, juniper and fir.
	From the cor. of secs. 8, 9, 16 and 17.
	West, bet. secs. 8 and 17.
	Over mountainous land, through dense timber.
	By triangulation, desc. about 100 ft. over SW. slope.
12.10	Approximate dist. to wash, drains S. 10° W.; asc. about 300 ft. over SE. slope.
19.27	End triangulation.
23.00	Spur, projects S.; desc. 430 ft. over W. slope.

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Survey of Subdivision, T. 17 S., R. 15 E.

Chains	
40.00	Point for the ¼ sec. cor. of secs. 8 and 17.
	On a W. slope, 330 ft. below spur,
	Set an iron post, 30 ins. long, 2½ ins. diam., 6 ins. in the ground and in a mound of stone, 3½ ft. base to top, with brass cap mkd.
	T17S R15E ¼ S 8 S17 1961
	Continue descent.
60.50	Wash, drains S.; asc. 60 ft. over SE. slope.
70.50	Spur, projects S.; desc. 80 ft. over W. slope.
80.00	Point for the cor. of secs. 7, 8, 17 and 18.
	Set an iron post, 30 ins. long, 2½ ins. diam., 4 ins. in the ground and in a mound of stone, 3½ ft. base to top, with brass cap mkd.
	T17S R15E S 7 | S 8 S18 | S17 1961
	Land, mountainous. Soil, sandy loam. Timber, dense pinon and juniper.

	West, bet. secs. 7 and 18.
	Over mountainous land, through dense timber.
	By triangulation, desc. about 80 ft. over W. slope.
9.50	Approximate dist. to draw, drains S.; asc. about 50 ft. over SE. slope.
13.00	Approximate dist. to spur, projects S.; desc. about 50 ft. over SW. slope.
18.00	Approximate dist. to draw, drains SE.; asc. about 100 ft. over gentle NE. slope.
33.10	End triangulation, thence asc. 160 ft. over gentle E. slope.
40.00	Point for the ¼ sec. cor. of secs. 7 and 18.
	Set an iron post, 30 ins. long, 2½ ins. diam., 6 ins. in the ground and in a mound of stone, 3½ ft. base to top, with brass cap mkd.
	T17S R15E ¼ S 7 S18 1961
	Continue ascent.
62.80	W. rim of canyon, bears N. and S.; desc. 380 ft. over broken, ledgy W. slope.
77.64	Intersect the W. bdy. of the Tp.

U. S. GOVERNMENT PRINTING OFFICE 16—28820-2

Survey of Subdivision, T. 17 S., R. 15 E.

Chains	
	Point for the closing cor. of secs. 7 and 8.
	Set an iron post 30 ins. long, 2½ ins. diam. 4 ins. in the ground and in a mound of stone 3½ ft. base to top with brass cap mkd.
	T17S R14E R15E S1 2 | S7 CC | S18 1961
	From this cor. the E. ¼ sec. cor. of sec. 12, T. 17 S., R. 14 E., bears North, 18.96 chs., and is monumented with an iron post, 1 in. in diam., set, mkd. and witnessed as described in the official record.
	Land, mountainous. Soil, rocky, sandy loam. Timber, dense pinon and juniper
	From the cor. of secs. 7, 8, 17 and 18.
	N. 0° 03' W. bet. secs. 7 and 8.
	Over mountainous land through dense timber.
	Asc. 260 ft. over broken ledges on SW. slope.
4.90	Top of ledge, bears NW. and SE.
17.50	Top of ledge, bears NW. and SE.
19.40	NW. point of ledge on spur, projects W., thence by triangulation. desc. about 100 ft. over ledgy NW. slope.
30.00	Approximate dist., leave timber, bears E. and W., enter sage brush.
34.50	Approximate dist. to wash, drains W., asc. about 450 ft. over broken S. slope.
37.82	End triangulation.
40.00	Point for the ¼ sec. cor. of secs. 7 and 8.
	Set an iron post 30 ins. long, 2½ ins. diam. 20 ins. in the ground and in a collar of stone, with brass cap mkd.
	T17S R15E ¼ S7 | S8 1961
	By triangulation, continue ascent.
42.00	Approximate dist., enter dense timber, bears NE. and SW.
60.80	End triangulation. Ascent becomes gentle.
80.00	Point for the cor. of secs. 5, 6, 7 and 8.

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u e of Subdiv sion T. 17 S. R. 15 E.

Chains

Set an iron post 30 ins. long, 2½ ins. diam., 6 ins. in the ground and in a mound of stone 3½ ft. base to top, with brass cap mkd.

T17S R15E

S6 | S5
S7 | S8

1961

Land, mountainous.
Soil, sandy loam.
Timber, dense pinon and juniper

From the cor. of secs. 4, 5, 8 and 9,

S. 89° 52' W., bet. secs. 5 and 8.

Over mountainous through dense timber.

By triangulation, desc. about 200 ft. over broken W. slope.

8.50 Approximate dist. to slope change; thence along S. slope.

18.00 Approximate dist. to spur, projects SW., desc. about 100 ft. over rocky W. slope.

22.00 Approximate dist. to draw, drains SW., asc. about 100 ft. over SE. slope.

28.50 Approximate dist. to spur, projects S., desc. about 120 ft. over rocky W. slope.

33.50 Approximate dist. to draw, drains SW., asc. about 200 ft. over SE. slope.

40.00 Point for the ½ sec. cor. of secs. 5 and 8.

Set an iron post 30 ins. long, 2½ ins. diam. 6 ins. in the ground and in a mound of stone 4 ft. base to top, with brass cap mkd.

T17S R15E

½ S5
S8

1961

40.10 Spur, projects S. 10° E. End of triangulation. Desc. 200 ft. over broken SW. slope.

48.70 Draw, drains SW., asc. 320 ft. over broken SE. slope.

70.90 Spur, projects SE., desc. 5 ft. along S. slope.

74.00 Spur, projects S., desc. 20 ft. along S. slope.

80.00 The cor. of secs. 5, 6, 7 and 8.

Land, Mountainous.
Soil, rocky, sandy loam.
Timber, dense pinon and juniper.

U. S. GOVERNMENT PRINTING OFFICE 16—25880-2

GPO 8966

Survey of Subdivision, T. 17 S., R. 15 E.

Chains	
	West, bet. secs. 6 and 7.
	Over broken land through dense timber.
	By triangulation, asc. about 30 ft. over SE. slope.
2.00	Approximate dist. to spur, projects S., desc. about 130 ft. over SW. slope.
9.00	Approximate dist. to draw, drains S., asc. about 30 ft. over SE. slope.
12.00	Approximate dist. to spur, projects S., desc. about 100 ft. over rocky SW. slope.
20.00	Approximate dist. to draw, drains S., asc. about 50 ft. along broken S. slope.
30.00	Approximate dist. to spur, projects SW., desc. about 50 ft. over broken W. slope.
32.00	Approximate dist. to draw, drains SW., thence along broken S. slope.
40.00	Point for the ¼ sec. cor. of secs. 6 and 7.
	Set an iron post 30 ins. long, 2½ ins. diam., 2 ins. in the ground and in a mound of stone 3½ ft. base to top, with brass cap mkd.
	T17S R15E ¼ S6 S7
	1961
40.50	End triangulation; S. slope of rocky knob, desc. 150 ft. over rocky NW. slope.
48.60	Draw, drains N., asc. 20 ft. along N. slope.
60.50	Asc. 100 ft. over broken NE. slope.
75.00	Top of ascent, bears N. and S., desc. abruptly 120 ft. over broken W. slope.
77.59	Intersect the W. bdy. of the Tp.
	Point for the closing cor. of secs. 6 and 7.
	Set an iron post 30 ins. long, 2½ ins. diam., 4 ins. in the ground and in a mound of stone 3½ ft. base to top, with brass cap mkd.
	T17S R14E R15E S1 S6 S7 CC
	1961
	From this cor., the E. ¼ sec. cor. of sec. 1, T. 17 S., R. 14 E., bears North, 19.18 chs. dist., and is monumented with a 1 in. iron post, set, mkd. and witnessed as described in the official record.

GOVERNMENT PRINTING OFFICE 16—28530-2

GPO 896619

Chains

Land, broken.
Soil, sandy loam.
Timber, dense pinon and juniper.

Point for the W. ¼ sec. cor. of sec. 7, midpoint bet. the closing cor. of secs. 7 and 18, and the closing cor. of secs. 6 and 7.

Set an iron post 36 ins. long, 1 in. diam., 24 ins. in the ground and in a collar of stone, brass cap mkd.

T17S
R14E R15E
¼
S7
1961

From this cor, the cor. of secs. 1 and 12, T. 17 S., R. 14 E., bear North, 19.09 chs. dist., and is monumented with a 2 in. iron post, set, mkd. and witnessed as described in the official record.

Point for the W. ¼ sec. cor. of sec. 6, 40.00 chs. northing from the closing cor. of secs. 6 and 7.

Set an iron post 30 ins. long, 2½ ins. diam., 4 ins. in the ground and in a mound of stone 3½ ft. base to top, with brass cap mkd.

T17S
R14E R15E
¼
S6
1961

From this cor., the E.¼ sec. cor. of sec. 1, T. 17 S., R. 14 E., bears South, 20.82 chs. dist., and is monumented with a 1 in. iron post, set, mkd. and witnessed as described in the official record.

From the cor. of secs. 5, 6, 7 and 8.

N. 0° 03' W. bet. secs. 5 and 6.

Over mountainous land through dense timber.

Asc. 50 ft. over steep S. slope.

3.20 Ridge, bears irregularly E. and W., thence by triangulation, desc. about 250 ft. over broken N. slope.

18.50 Approximate dist. to draw, drains NW., asc. about 50 ft. over broken SW. slope.

21.50 Approximate dist. to spur, projects NW., desc. about 150 ft. over N. slope.

37.50 Approximate dist. to wash, in bottom of canyon, drains W., asc. about 400 ft. over broken S. slope.

U. S. GOVERNMENT PRINTING OFFICE 16—26520-2 GPO 8966

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Survey of Subdivision, T. 17 S., R. 15 E.

Chains	
40.00	Point for the ¼ sec. cor. of secs. 5 and 6.
	Set an iron post 30 ins. long, 2½ ins. diam., 4 ins. in the ground and in a mound of stone 3½ ft. base to top, with brass cap mkd.

T17S R15E
¼
S6 | S5
1961

	End of triangulation, beginning of another; continue ascent.
58.00	S. edge of small mesa, bears irregular E. and W.; end triangulation.
61.50	Top of ascent, bears irregular E. and W., desc. 250 ft. over N. slope.
62.70	N. edge of mesa, bears E. and W., continue descent.
82.33	Intersect the N. bdy. of the Tp.
	Point for the closing cor. of secs. 5 and 6.
	Set an iron post 30 ins. long, 2½ ins. diam., 4 ins. in the ground and in a mound of stone 3½ ft. base to top, with brass cap mkd.

T16S R15E
S 31
S6 | S5
CC
1961

From this cor., the cor. of secs. 31 and 32, T. 16 S., R. 15 E., bears N. 89° 23' E., 2.44 chs. dist., monumented with a 2½ in. iron post, set, mkd. and witnessed as described in the 1961 field notes of the dependent resurvey of the S. bdy. of T. 16 S., R. 15 E.

Land, mountainous.
Soil, rocky, sandy loam.
Timber, dense pinon and juniper.

Point for the N. ¼ sec. cor. of sec. 5, midpoint bet. the closing cor. of secs. 4 and 5, and the closing cor. of secs. 5 and 6.

Set an iron post 30 ins. long, 2½ ins. diam., 6 ins. in the ground and in a mound of stone 3 ft. base to top, with brass cap mkd.

T16S

¼ S5

T17S R15E

1961

Chains

From this cor. the ¼ sec. cor. of sec. 32, T. 16 S., R. 15 E., bears N. 89° 55' E., 2.53 chs. dist., and is monumented with a 2½ in iron post set, mkd. and witnessed as described in the 1961 field notes of the dependent resurvey of the S. bdy. of T. 16 S., R. 15 E.

Point for the N. ¼ sec. cor. of sec. 6, at 40.00 chs. westing from the closing cor. of secs. 5 and 6.

Set an iron post 36 ins. long, 1 in. diam., 24 ins. in the ground and in a mound of stone 3 ft. base, 4 ins. from brass cap mkd.

T16S

¼ _____

S6

T17S R15E

1961

From this cor., the ¼ sec. cor. of sec. 31, T. 16 S., R. 15 E., bear N. 89° 23' E., 2.64 chs. dist., and is monumented with a 2½ in iron post set, mkd. and witnessed as described in the 1961 field notes of the dependent resurvey of the S. bdy. of T. 16 S., R. 15 E.

General Description

The land in Township 17 South, Range 15 East, is mountainous and broken, and in the north-east portion, extremely rough. The elevation varies from 6,000 ft. to 7,200 ft. with some points as high as 8,500 ft. above sea level. The southern portion of the area is covered with scattered pinon and juniper timber, becoming heavier toward the central portion, and dense pinon, juniper and fir in the northern portion. Soil consists of rocky, sandy loam, with considerable exposed sandstone. There is one jeep trail in the south-west corner through section 31 and again in section 36. No others were noted. The only source of water noted was in the east portion of Mitches Canyon, in the north-east portion of the township, which drains that area in a easterly direction. The south-east portion is drained by Turtle Canyon and its tributaries in a south-easterly direction. The west portion is drained by numerous draws, and small canyons in a westerly direction to Little Park Wash.

U. S. GOVERNMENT PRINTING OFFICE 16—28880-2

4-680
(Feb., 1960)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FIELD ASSISTANTS

NAMES	CAPACITY
Rex J. Edwards	Transitman
Morris E. Blackburn	Chainman
William R. Savage	Chainman
Max Asay	Flagman
Parley Pratt	Cornerman
Gary W. Rutledge	Transitman
Wallace R. Ott	Chainman
Gary T. Oviatt	Chainman
Jeddie J. Judd	Cornerman
Jerold Brindley	Flagman

16—83464-2

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CERTIFICATE OF CADASTRAL ENGINEER

I, Craig P. Sylvester, HEREBY CERTIFY upon honor that, in pursuance of special instructions bearing date of the 31st day of May, 1932, supplemental special instructions dated May 12, 1954 and September 2, 1960 I have ~~surveyed~~ supervised the dependent resurvey of the north boundary and surveyed the south boundary and a portion of the subdivisional lines of Township 17 South, Range 15 East.

of the Salt Lake Meridian, in the State of Utah, which are represented in the foregoing field notes as having been executed by me ~~or~~ under my direction; and that said 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.

Salt Lake City, Utah

February 6, 1962

Craig P. Sylvester

Craig P. Sylvester, Cadastral Surveyor

CERTIFICATE OF APPROVAL

BUREAU OF LAND MANAGEMENT,

Washington, D. C., MAY 6 1963, *19*

The foregoing field notes of the ~~survey of~~ dependent resurvey of the north boundary and the survey of the south boundary and a portion of the subdivisional lines of Township 17 South, Range 15 East, Salt Lake Meridian, Utah.

executed by Fred R. Chappell, Glen B. Hatch - Cadastral Surveyors, under the supervis of Craig P. Sylvester, Cadastral Surveyor

having been critically examined and found correct, are hereby approved.

~~Chief, Division of Cadastral Engineering.~~

Chief, Division of Engineering

~~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.

_____

Chie Division o Cadastral E ineeri .

U. S. GOVERNMENT PRINTING OFFICE 16—63865-2

4—679
(September 1948)

389

DEPT. OF THE INTERIOR
BUR. OF LAND MGMT

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

ORIGINAL

FIELD NOTES

OF THE

DEPENDENT RESURVEY OF A PORTION OF THE SOUTH BOUNDARY

AND A PORTION OF THE SUBDIVISIONAL LINES

AND THE SURVEY OF A PORTION

OF THE SOUTH BOUNDARY

AND A PORTION OF THE SUBDIVISIONAL LINES

OF

TOWNSHIP 18 SOUTH, RANGE 14 EAST

Of the SALT LAKE *Meridian,*

In the State of UTAH

EXECUTED BY

Fred R. Chappell, Cadastral Surveyor

Glen B. Hatch, Cadastral Surveyor

Under the supervision of Craig P. Sylvester, Cadastral Surveyor

Under special instructions dated May 31, *19*32, *which provided* Supplemental special instructions dated September 2, 1960 and May 12, 1954

for the surveys included under Group No. 246, *approved* July 22, 1932
June 28, 1954
Sept. 6, 1960

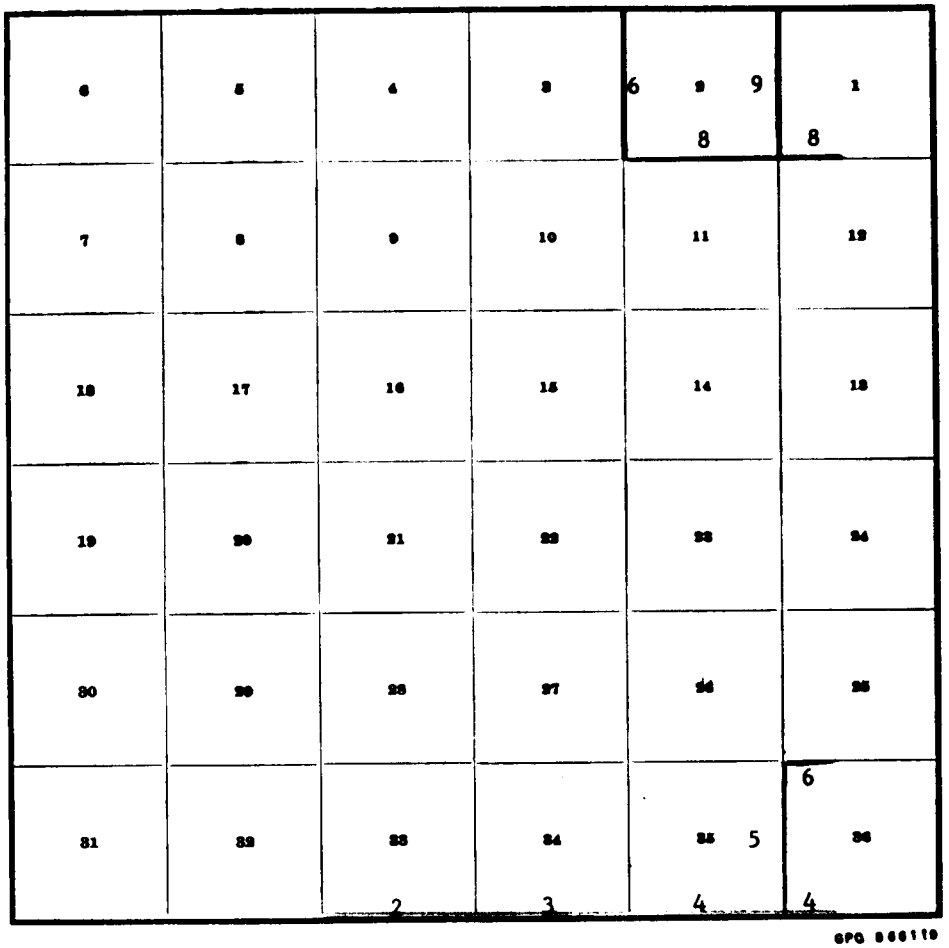
and assignment instructions dated April 25, *19*61

Survey commenced May 22, *19*61

Survey completed June 26, *19*61

INDEX DIAGRAM

Township 18 SOUTH , *Range* 14 EAST



GPO 866110

Lines surveyed by Fred R. Chappell ———

Lines surveyed by Glen B. Hatch ———

Township 18 South, Range 14 East

Chains

The west boundary was surveyed by S. M. Pancake in 1884. The south 2 miles of the west was resurveyed by J. C. Thoma in 1923, and the north 4 miles of the west boundary was resurveyed by Kenneth F. Hansen in 1954. The west 4 miles of the north boundary was surveyed by A. D. Ferron in 1884 and resurveyed by Frank E. Baxter in 1894. The east 2 miles of the north boundary was surveyed by J. C. Clark in 1941-42. The west 4½ miles of the south boundary was surveyed by A. D. Ferron in 1884 and the west 2 miles was resurveyed by J. C. Thoma in 1923. A portion of the subdivision was surveyed by S. M. Pancake in 1884.

The following field notes are those of the dependent resurvey of a portion of the south boundary and a portion of the subdivision and the survey of a portion of the south boundary and a portion of the subdivision of Township 18 South, Range 14 East, deemed sufficient in extent to facilitate development of the natural resources and mark the boundaries of those sections that normally are considered state school sections.

Before restoring the corners, the lines of the original survey were retraced and diligent search made for any evidence of the original corners or other calls of the original field note record. The rules of proportionate measurement were applied to ascertain the position of the lost corners after exhausting every reasonable possibility of finding direct evidence of the lost corners.

The survey was executed with W. & L. E. Gurley Solar Transits Nos. 580158 and 541327 constructed in accordance with the standard instrumental specifications of the Bureau of Land Management. The instruments were in good condition prior to the beginning of the survey and were maintained in proper adjustment throughout the progress of this survey.

Corners on east-west lines were set on the true latitudinal curve. Lines connecting previously established corners were run by random and true method, but for simplification of the record the random lines are omitted from the field notes. In accordance with the intent of the special instructions, all subdivisional corners established are calculated to be at the position they would occupy if the entire township were subdivided.

Measurements herein contained were made with a narrow steel tape, 8 chains in length, graduated every link for the first 100 links and thereafter at intervals of 10 links. The tape was tested by comparison with a one chain standard steel tape and found to be correct. Measurements were made on the slope with the vertical angle of each interval ascertained by a clinometer in good adjustment; horizontal equivalents alone are entered in the field notes. All lines of this survey were run by direct method where the lines were accessible; lines inaccessible were run by traverse or triangulation methods. Distances to topography on lines run by traverse or triangulation are approximately as scaled from U. S. G. S. topographic sheets. The details of such traverses or triangulations have been thoroughly checked and verified, and in order to simplify the record the diagrams and reductions are omitted from these field notes.

The direction of the lines of this survey were determined by reference to true meridians established on line by altitude observations on the sun. The lines were carried forward by sustained angulation being supplemented by other numerous altitude observations on the sun taken throughout the progress of the survey.

The geographic position for the southeast corner of the township is at latitude 39° 12' 16.010" N. and longitude 110° 17' 55.530" W. as adjusted from traverses to U. S. G. S. triangulation station "Smith", at latitude 39° 16' 46.298" N. and longitude 110° 17' 45.278" W., located in section 7, Township 18 South, Range 15 East.

U. S. GOVERNMENT PRINTING OFFICE 16—25520-2 GPO 896619

392

cons 18 South 14 E t

Chains

The magnetic declination was read at a number of stations throughout the township and the average of these readings was found to be 16° East.

Dependent Resurvey of a Portion of the South Boundary of Township 18 South, Range 14 East

Reestablishment of the survey executed by A. D. Ferron in 1884, with original cors. remonumented for T. 18 S., R. 14 E., only.

Beginning at the cor. of secs. 32 and 33, monumented with a 2 in. iron post, set, mkd. and witnessed as described in the official record.

N. 88° 32' E., along the S. bdy. of sec. 33.

Over nearly level desert land.

Desc. 50 ft. over gentle E. slope.

11.90 Road to Castle Dale, gravel, bears NW. and SE.

19.90 Wash, 20 lks. wide, 3 ft. deep, drains N.

27.40 Center of Denver and Rio Grande Western Railroad, bears N. 9° 15' W. and S. 19° 15' E.

27.75 Telephone line, parallel with railroad.

28.25 Road, unimproved, parallel to railroad.

40.89 Point for the original ¼ sec. cor. of secs. 4 and 33 at proportionate dist. There is no remaining evidence of the original cor. This cor. will now function as the ¼ sec. cor. of sec. 33, T. 18 S., R. 14 E., only.

Set an iron post, 30 ins. long, 2½ ins. diam., 20 ins. in the ground, and in a collar of stone to top, with brass cap mkd.

T18S R14E
¼ S33
1961

44.05 Center of U. S. Highway 50 and 6, bears N. 18° 48' E., S. 18° 48' W.

45.60 Telephone line, parallel to U. S. highway.

47.00 Road, unimproved, bears NW. and SE.

81.78 Point for the original cor. of secs. 3, 4, 33 and 34 at proportionate dist. There is no remaining evidence of the original cor. This cor. will now function as the cor. of secs. 33 and 34, T. 18 S., R. 14 E. only.

Set an iron post, 30 ins. long, 2½ ins. diam., 20 ins. in the ground, and in a collar of stone, to top, with brass cap mkd.

T18S R14E
S33 | S34
1961

U. S. GOVERNMENT PRINTING OFFICE 16—88880-2

GPO 88

Boundary Resurvey of a Portion of the S. Bdy. of T. 18 S., R. 14 E.

Chains	
	Land, nearly level desert. Soil, clay. Timber, none. Undergrowth, shadescale.
	N. 88° 32' E., along the S. bdy. of sec. 34.
	Over nearly level desert land.
2.00	Road, unimproved, bears NW. and SE.
23.40	Road, unimproved, bears N. and S.
23.45	Power line, with heavy cable, bears N. and S.
24.75	Telephone line, bears N. and S.
40.89	Point for the original ¼ sec. cor. of secs. 3 and 34 at proportionate dist. There is no remaining evidence of the original cor. This cor. will now function as the ¼ sec. cor. of sec. 34, T. 18 S., R. 14 E., only.
	Set an iron post, 30 ins. long, 2½ ins. diam., 20 ins. in the ground, and in a collar of stone to top, with brass cap mkd. T18S R14E ¼ S34 1961
	Asc. 110 ft. over a series of small blue clay spurs.
62.20	Spur, projects S.
68.50	Spur, projects NW.
70.60	Wash, 10 lks. wide, 2 ft. deep, drains NW.
73.90	Wash, 10 lks. wide, 2 ft. deep, drains NW.
74.90	Spur, projects NW.
80.00	Spur, projects NW.
81.78	The original cor. of secs. 2, 3, 34 and 35, monumented with a sandstone, 6x8x14 ins.; firmly set, mkd. and witnessed as described in the official record. This cor. will now function as the cor. of secs. 34 and 35, T. 18 S., R. 14 E. only.
	At the cor. point
	Set an iron post, 30 ins. long, 2½ ins. diam., 18 ins. in the ground, and in a collar of stone, to top, with brass cap mkd. T18S R14E S34|S35 1961
	Bury stone cor. alongside iron post.
	Land, nearly level W. portion; rolling E. portion. Soil, clay. Timber, none. Undergrowth, shadescale.

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...o a Portion of the S. Bd. of T. S. R. 14 E.

Chains	
	S. 89° 47' E., along the S. bdy. of sec. 35.
	Over rolling desert land.
	Asc. 75 ft. over rocky, rolling clay hills.
3.90	Wash, 20 lks. wide, 3 ft. deep, drains NW.
13.20	W. edge of small mesa, bears NW. and SE.
21.00	Wash, 50 lks. wide, 5 ft. deep, drains NW.
25.20	Wash, 40 lks. wide, 5 ft. deep, drains NW.
40.38	The original ¼ sec. cor. of secs. 2 and 35, monumented with a sandstone, 6x14x22 ins., firmly set, mkd. and witnessed as described in the official record. This cor. will now function as the ¼ sec. cor. of sec. 35, T. 18 S., R. 14 E., only.
	At the cor. point
	Set an iron post, 30 ins. long, 2½ ins. diam., 3 ins. in the ground, and in a mound of stone, 3½ ft. base to top, with brass cap mkd.
	T18S R14E ¼ S35 1961
	Thence, east along the S. bdy. of sec. 35, beginning new survey.
	Asc. 260 ft. over rocky, rolling land.
13.20	Road, unimproved, bears NE. and SW.
37.70	Begin steep ascent over W. slope.
40.00	Point for the cor. of secs. 35 and 36, T. 18 S., R. 14 E. only.
	Set an iron post, 30 ins. long, 2½ ins. diam., 4 ins. in the ground to bedrock, and in a mound of stone, 3½ ft. base to top, with brass cap mkd.
	T18S R14E S35 | S36 1961
	Land, rolling W. portion; broken, rocky E. portion. Soil, rocky clay. Timber, none. Undergrowth, shadscale.
	East, along the S. bdy. of sec. 36.
	Over steep, broken land.
	Asc. 470 ft. over broken W. slope.
13.62	Point selected for the witness SE. cor. of T. 18 S., R. 14 E.
	Set an iron post, 30 ins. long, 2½ ins. diam., 16 ins. in the ground and in a mound of stone, 2 ft. base to top, with brass cap mkd.
	T18S R15E R14E S36 | T19S | WC 1961

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Dependent Resurvey of a Portion of the S. Bdy. of T. 18 S., R. 14 E.

Chains	
	Cor. is located on broken W. slope 15 lks. west of near verticle inaccessible ledge, facing west.
26.03	Point for the SE. cor. of T. 18 S., R. 14 E., at intersection with a point south of the SE. cor. of Tps. 17 and 18 S., R. 14 E., falls on inaccessible W. face of the Book Cliffs and cannot be perpetuated.
	Land, broken, ledgy west face of Book Cliffs. Soil, rocky clay and exposed sandstone. Vegetation, none.

Survey of a Portion of the Subdivision of
Township 18 South, Range 14 East

	From the cor. of secs. 35 and 36 on the S. bdy. of the Tp.
	North, bet. secs. 35 and 36.
	Over rocky, rolling land through scattered shadscale.
40.00	Point for the ¼ sec. cor. of secs. 35 and 36, falls on steep clay slope, where cor. cannot be perpetuated.
40.10	Point selected for the witness ¼ sec. cor. of secs. 35 and 36, on top small clay spur, projects SW.
	Set an iron post, 30 ins. long, 2½ ins. diam., 16 ins. in the ground, and in a collar of stone, with brass cap mkd. T18S R14W ¼ S35 | S36 W C 1961
	Asc. 30 ft. over rocky SW. slope.
42.80	Top of ascent, slopes generally W., desc. 40 ft. over rocky N. slope.
49.50	Wash, 30 lks. wide, 4 ft. deep, drains NW.; asc. 20 ft. over SW. slope.
56.10	Small clay spur, projects NW.; desc. 70 ft. over general NW. slope.
59.70	Wash, 20 lks. wide, 5 ft. deep, drains NW.
80.00	Point for the cor. of secs. 25, 26, 35 and 36.
	Set an iron post, 30 ins. long, 2½ ins. diam., 14 ins. in the ground and in a mound of stone, 3½ ft. base to top, with brass cap mkd. T18S R14E S26 | S25 S35 | S36 1961
	Land, rocky rolling desert. Soil, rocky loam and clay. Timber, none. Undergrowth, scattered shadscale.

Chains	
	From the cor. of secs. 25 and 36 on the E. bdy. of the Tp., monumen with a 2½ in. iron post, set, mkd. and witnessed as described in the 1961 field notes of the W. bdy. of Tp. 18 S., R. 15 E.
	S. 89° 56' W., bet. secs. 25 and 36.
	Over rocky, rolling land through scattered shadscale brush.
	Desc. 40 ft. over gentle NW. slope.
1.10	Wash, 10 lks. wide, 2 ft. deep, drains NW., continue descent.
8.00	Wash, 20 lks. wide, 20 ft. deep, drains NW., continue descent.
15.15	Road, unimproved, bears N. and S.
26.04	The cor. of secs. 25, 26, 35 and 36.
	Land, gently sloping NW. slope. Soil, rocky clay. Timber, none. Undergrowth, scattered shadscale.

Dependent Resurvey of a Portion of the Subdivision of Township 18 South, Range 14 East

Reestablishment of the survey executed by S. M. Pancake in 1884.

	From the cor. of secs. 2, 3, 34 and 35 on the N. bdy. of the Tp., monumented with a 2 in. iron post, set, mkd. and witnessed as described in the official record.
	S. 0° 46' W., bet. secs. 2 and 3.
	Over gently rolling desert land.
	Asc. 10 ft. over NW. slope.
0.70	Small spur, projects SW., desc. 70 ft. over gentle SE. slope.
19.90	Wash, 15 lks. wide, 3 ft. deep, drains SW.
23.10	Same wash, drains SE.; asc. 15 ft. over NW. slope.
24.90	Small spur, projects SW.; desc. 20 ft. over SE. slope.
30.50	Same wash, 15 lks. wide, 3 ft. deep, drains SW.
32.40	Wash, 30 lks. wide, 4 ft. deep, drains NW.; asc. 40 ft. over NE. slope.
40.66	The original ¼ sec. cor. of secs. 2 and 3, monumented with sandstone 4x6x10 ins., dimly mkd., firmly set as described in the official record. This cor. will now function as the ¼ sec. cor. of sec. 3 only.
	At the cor. point
	Set an iron post, 30 ins. long, 2½ ins. diam., 18 ins. in the ground and in a mound of stone, 2 ft. base to top, with brass cap mkd.

Dependent Resurvey of a Portion of the Subdivision of T. 18 S., R. 14 E.

Chains

T18S R14E
¼
S3
1961

Bury stone cor. alongside iron post.

S. 0° 46' W., beginning new measurement.

Asc. 20 ft. over gentle NE. slope.

0.53 Point for the W ¼ sec. cor. of sec. 2, 40.00 chs. northing from the cor. of secs. 2, 3, 10 and 11.

Set an iron post, 30 ins. long, 2½ ins. diam., 18 ins. in the ground, and in a collar of stone, to top, with brass cap mkd.

T18S R14E
¼
S2
1961

6.00 Small ridge bears E. and W.; desc. 25 ft. over gentle S. slope.

7.40 Small wash, drains W.

15.00 Wash, 40 lks. wide, 4 ft. deep, drains W.; asc. 65 ft. over NW. slope.

25.30 Road, unimproved, bears E. and W.

28.10 Ridge, bears NE. and SW.; desc. 80 ft. over steep SE. slope.

32.50 Wash, drains SW.; asc. 35 ft. over NW. slope.

36.60 Ridge, bears NE. and SW.; desc. 55 ft. over SE. slope.

40.20 Wash, 10 lks. wide, 2 ft. deep, drains SW.

40.53 The original cor. of secs. 2, 3, 10 and 11, monumented with a sandstone 6x10x14 ins., set, mkd. and witnessed as described in the official record.

At the cor. point

Set an iron post, 30 ins. long, 2½ ins. diam., 20 ins. in the ground, and in a mound of stone, 2½ ft. base to top, with brass cap mkd.

T18S R14E
S 3 | S 2
S10 | S11
1961

Bury stone cor. alongside iron post.

Land, gently rolling desert.
Soil, clay.
Undergrowth, shadscale.

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39

Chains	
	East, bet. secs. 2 and 11.
	Over rolling desert land.
	Asc. 180 ft. over gentle W. slope.
20.60	Top of clay ledge, 25 ft. high, bears S. and NW.
22.80	Ridge, bears NW. and SW.; desc. 25 ft. over SE. slope.
35.10	Head of draw, drains N.; asc. 20 ft. over NW. slope.
40.00	Point for the ¼ sec. cor. of secs. 2 and 11 at record course and dist. There is no remaining evidence of the original cor.
	Set an iron post, 30 ins. long, 2½ ins. diam., 4 ins. in the ground, to bedrock, and in a mound of stone, 4 ft. base to top, with brass cap mkd.

T18S R14E
¼ S 2 / S11
1961

Survey of a Portion of the Subdivision of T. 18 S., R. 14 E.

	From the ¼ sec. cor. of secs. 2 and 11; E. bet. secs. 2 and 11.
	Asc. 130 ft. over rocky W. slope.
2.50	Wash, drains N.
5.90	Road, unimproved, bears N. and S.
22.90	Road, unimproved, bears NE. and S.
25.60	Wash, drains S.
34.10	Wash, 50 lks. wide, 6 ft. deep, drains irregularly S.
39.10	Spur, projects NW.; desc. 10 ft. over NE. slope.
39.85	Point selected for the witness cor. of secs. 1, 2, 11 and 12.
	Set an iron post, 30 ins. long, 2½ ins. diam., 15 ins. in the ground, and in a mound of stone, 3 ft. base to top, with brass cap mkd.

T18S R14E
S 2 | S 1 W
S11 | S12 C
1961

40.00	Point for the cor. of secs. 1, 2, 11 and 12, falls in wash, 10 lks. wide, 3 ft. deep, where cor. is unsafe to perpetuate.
	Land, rolling. Soil, rocky clay. Undergrowth, shadscale.

	East, bet. secs. 1 and 12.
	Over rocky, broken land.
	Asc. 300 ft. over steep, broken, rocky W. slope.

Chains	
7.50	Spur, projects NW., continue ascent.
12.90	Spur, projects N.; desc. 75 ft. over steep, rocky E. slope.
21.50	Wash, 40 lks. wide, 5 ft. deep, drains irregularly N.; asc. 125 ft. over steep, rocky W. slope.
25.08	Intersect the E. bdy. of the Tp.

Point for the closing cor. of secs. 1 and 12.

Set an iron post, 30 ins. long, 2½ ins. diam., 20 ins. in the ground, and in a mound of stone 2 ft. base, to top, with brass cap mkd.

T18S
R14E | R15E
C S 1 |
C S12 |
1961

From this cor., the ¼ sec. cor. of sec. 7, T. 18 S., R. 15 E. bears S., 16.15 chs. dist., monumented with a 2½" iron post, set, mkd. and witnessed as described in the 1961 field notes of the W. bdy. T. 18 S., R. 15 E.

Land, mountainous, broken.
Soil, rocky clay.
Undergrowth, shadscale.
Timber, none.

Point for the E. ¼ sec. cor. of sec. 1, 40.00 chs. north of the closing cor. of secs. 1 and 12.

Set an iron post, 30 ins. long, 2½ ins. diam., 20 ins. in the ground, and in a mound of stone 2 ft. base to top, with brass cap mkd.

T18S
R14E R15E
¼
S 1 |
1961

from which

The true point for cor. of secs. 6 and 7, T. 18 S., R. 15 E., bears south, 16.15 chs. dist., and is not monumented.

From the same cor., the ¼ sec. cor. of sec. 6, T. 18 S., R. 15 E., bears north, 23.85 chs. dist., monumented with a 2½ in. iron post, set, mkd. and witnessed as described in the 1961 field notes of the W. bdy. of T. 18 S., R. 15 E.

From the same cor., U. S. G. S. triangulation station "Smith", bears S. 24° 04' E. 29.956 chs. dist.

From the cor. of secs. 1, 2, 11 and 12.

N. 0° 01' W., bet. secs. 1 and 2.

Over rolling, broken clay spurs through scattered shadscale.

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GPO 896619

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Survey of a Portion of the Subdivision of T. 18 S., R. 14 E.

Chains	
	Asc. 30 ft. over SW. slope.
4.70	Small spur, projects W.; desc. 30 ft. over NW. slope.
5.70	Wash, 40 lks. wide, 5 ft. deep, drains irregularly SW.; asc. 90 ft. over rocky SE. slope.
12.80	Spur, projects SW.; desc. 20 ft. over NW. slope.
19.10	Wash, 20 lks. wide, 2 ft. deep, drains SW. and curves NW.; asc. 20 ft. over S. slope.
25.30	Spur, projects W.; desc. 30 ft. over N. slope.
31.80	Wash, 15 lks. wide, 2 ft. deep, drains W.; asc. 95 ft. over S. slope.
38.50	Spur, projects W.; desc. 20 ft. over NW. slope.
40.00	Point for the ¼ sec. cor. of secs. 1 and 2.
	Set an iron post, 30 ins. long, 2½ ins. diam., 6 ins. in the ground, and in a mound of stone, 4½ ft. base to top, with brass cap mkd.
	T18S R14E ¼ S 2 | S 1 1961
	Desc. 20 ft. over NW. slope.
41.50	Wash, 20 lks. wide, 4 ft. deep, drains SW.; asc. 45 ft. over SE. slope.
46.40	Spur, projects SW.; desc. 40 ft. over NW. slope.
50.00	Wash, 30 lks. wide, 4 ft. deep, drains SW.; asc. 45 ft. over SE. slope.
57.60	Spur, projects W.; desc. 55 ft. over NW. slope.
62.30	Wash, 30 lks. wide, 6 ft. deep, drains SW.; asc. 40 ft. over SE. slope.
64.90	Spur, projects SW.; desc. 60 ft. over NW. slope.
66.90	Wash, 80 lks. wide, 5 ft. deep, drains SW.; asc. 205 ft. over steep, clay S. slope.
75.40	Shale butte, 30 lks. wide, 3.00 chs. long, bears E. and W.; desc. abruptly 75 ft. over shale ledges on N. slope.
76.40	Wash, 30 lks. wide, 6 ft. deep, drains irregularly W.; asc. 110 ft. over steep, clay S. slope.
80.50	Narrow, steep, clay spur, projects W.; desc. 20 ft. over N. slope.
81.28	Intersect the N. bdy. of the Tp.
	Point for the closing cor. of secs. 1 and 2.
	Set an iron post, 30 ins. long, 2½ ins. diam., 18 ins. in the ground, with brass cap mkd.
	T17S R14E ¼ S 2 | S 1 C C T18S 1961

Chains

From this cor., the ¼ sec. cor. of 36, T. 17 S., R. 14 E., bears west 14.93 chs. dist., and is monumented with a 1 in. iron post, set, mkd. and witnessed as described in the official record.

Land, rolling, broken clay spurs, projecting W.
Soil, rocky clay.
Timber, none.
Undergrowth, scattered shadscale.

Point for the N. ¼ sec. cor. of sec. 2, on the N. bdy. of the Tp. and 40.00 chs. west of the closing cor. of secs. 1 and 2.

Set an iron post, 30 ins. long, 2½ ins. diam., 6 ins. in the ground, and in a mound of stone, 4 ft. base to top, with brass cap mkd.

T17S R14E

¼ S 2

T18S
1961

From this cor., the true point for cor. of secs. 35 and 36, T. 17 S., R. 14 E., bears west, 14.93 chs. dist. from which, its witness cor. bears west 1.03 chs. dist. and is monumented with a 2 in. iron post, set, mkd. and witnessed as described in the official record.

General Description

Sections 1 and 2, Township 18 South, Range 14 East, lies about 3 miles northeast of Woodside, at the base of the Book Cliffs, and is rolling clay spurs and small ridges. The elevation is 5,000 ft. above sea level.

The soil is rocky clay and the vegetation is scattered shadscale. The area is drained in a westerly direction by numerous washes. There is a bladed dirt road through the southeast portion of section 2, for oil exploration purposes.

The east portion along the south boundary is gently rolling desert land except for section 36, that lies along the face of the Book Cliffs. This portion of the township is drained in a northwesterly direction to the Price River, that enters the township in the northwest corner and runs southeasterly through the township. No permanent sources of water are found in these portions of the township.

U. S. GOVERNMENT PRINTING OFFICE 16—88520-2

GPO 896619

4-680
(Feb., 1950)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FIELD ASSISTANTS

NAMES	CAPACITY
Gary W. Rutledge	Transitman
Gary T. Oviatt	Chainman
Wallace R. Ott	Chainman
Jerald R. Brindley	Flagman
Jeddie J. Judd	Cornerman
Rex J. Edwards	Transitman
Morris E. Blackburn	Chainman
Ferrel D. Reynolds	Chainman
Max Asay	Flagman
Parley Pratt	Cornerman

16—53565-2

CERTIFICATE OF CADASTRAL ENGINEER

I, Craig P. Sylvester, HEREBY CERTIFY upon honor that, in pursuance of special instructions bearing date of the 31st day of May, 1932 Supplemental special instructions dated September 2, 1960 and May 12, 1954 I have ~~surveyed~~ dependently resurveyed a portion of the south boundary and a portion of the subdivisional lines and surveyed a portion of the south boundary and a portion of the subdivisional lines of Township 18 South, Range 14 East.

of the Salt Lake Meridian, in the State of Utah, which ar represented in the foregoing field notes as having been executed by me ~~and~~ or under my ~~direction~~ supervision; and tha said survey has been made in strict conformity with said instructions, the Manual of Instructions for th Survey of the Public Lands of the United States, and in the specific manner described in the foregoin field notes.

Salt Lake City, Utah

July 13, 1962

Craig P. Sylvester - Cadastral Survey

CERTIFICATE OF APPROVAL

BUREAU OF LAND MANAGEMENT,

Washington, D. C., MAY 6 1963, *19*

The foregoing field notes of the ~~survey of~~ dependent resurvey of a portion of the south boundary and a portion of the subdivisional lines and the survey of a portion of the south boundary and a portion of the subdivisional lines of Township 18 South Range 14 East, Salt Lake Meridian, Utah

executed by Fred R. Chappell and Glen B. Hatch - Cadastral Surveyors and under the supervision of Craig P. Sylvester - Cadastral Surveyor having been critically examined and found correct, are hereby approved.

~~Cadastral Engineering Staff Office~~

Chief, Division of Engineering

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.

~~Cadastral Engineering Staff Office~~

U. S. GOVERNMENT PRINTING OFFICE 16—53565-3