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UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

ORIGINAL

FIELD NOTES

OF THE

SURVEY OF A PORTION OF THE SUBDIVISION

OF

TOWNSHIP 12 SOUTH, RANGE 12 WEST

Of the Salt Lake *Meridian,*

In the State of Utah

EXECUTED BY

Virgil E. Spratt, Cadastral Surveyor

Under the supervision of Craig P. Sylvester, Cadastral Surveyor

Under special instructions dated August 15, *19*36, *which provided*
Supplemental special instructions dated May 11, 1959
or the surveys included under Group No. 277, *approved* May 12, 1959

and assignment instructions dated April 28, *19*60

Survey commenced May 4, *19*60

Survey completed June 23, *19*60

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

INDEX DIAGRAM

Township 12 South, *Range* 12 West

6	5	4 7	3 7	2 9	1
7	8	9 6	10	8 11	12
18	17 10	11 16 5	15	14	13
19	20	9 21 4	22	23	24
30	29	28 4	27	26	25
31 12	12 32 11	33 3	34	35 1	2 36

16—56770-1

Township 12 South, Range 12 West

Chains

The south boundary was surveyed by Wilson McConkie and Ralph Gentry in 1937. The east boundary was surveyed by Elliot Bird in 1938-1948. The north boundary was surveyed by Elliot Bird in 1948. The west boundary was surveyed by Ferdinand Dickert in 1882 and independently resurveyed by Elliot Bird in 1948.

The following field notes are those of a survey of a portion of the subdivision of T. 12 S., R. 12 W., 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 W. and L. E. Gurley transit No. 461265, 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 the 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 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° 43' 35.154" N. and longitude 113° 08' 08.482" W., as adjusted from traverses to U. S. G. S. triangulation station "Detroit."

The magnetic declination was read at a number of stations throughout the township and the average of these readings was found to be 16° 30' East.

Survey of Portion of the Subdivision of T. 12 S., R. 12 W.

Beginning at the cor. of secs. 1, 2, 35 and 36, on the S. bdy. of the Tp., mkd. by an iron post, 2 ins. diam., conforming to the record.

N. 0° 01' W., bet. secs. 35 and 36.

Over mountainous desert land covered with scattered juniper and shadscale.

Survey of a Portion of the Subdivision of T. 12 S., R. 12 W.

Chains	
2.60	Small wash, drains SW.; asc. 20 ft. over gentle SW. slope.
8.90	Unimproved road, bears N. 70° W. and S. 70° E.
10.10	Wash, 3 ft. deep, 20 lks. wide, drains SW.; asc. 60 ft. over SW. slope.
20.90	Spur, slopes SW. from top of knoll 8 chs. dist.; desc. 20 ft. over NW. slope.
39.70	Wash, 3 ft. deep, 25 lks. wide, drains S. 70° W.; asc. 10 ft. over SW. slope.
40.00	Point for the ¼ sec. cor. of secs. 35 and 36.
	Set an iron post, 30 ins. long, 2½ ins. in diam., 24 ins. in the ground, with brass cap mkd.
	T12S R12W ¼ S35 | S36 1960
	Raise a mound of stone, 3 ft. base, 3 ft. high, W. of iron post.
	Cont. over SW. slope.
44.30	Small wash, drains W.; asc. 90 ft. over S. slope of knoll.
54.00	Top of knoll, about 10 chs. diam., desc. 80 ft. over N. slope.
68.20	Wash, 4 ft. deep, 20 lks. wide, drains SW.; asc. 20 ft. over waste from open pit mine.
79.30	Wash, 3 ft. deep, 20 lks. wide, drains S. 80° W.; asc. 10 ft. over S. slope.
80.00	Point for the cor. of secs. 25, 26, 35 and 36.
	Set an iron post, 30 ins. long, 2½ ins. diam., 20 ins. in the ground, in a collar of stone, with brass cap mkd.
	T12S R12W S26 | S25 S35 | S36 1960
	Raise a mound of stone, 3 ft. base, 4 ft. high, W. of iron post.
	Land, broken mountains. Soil, gravel and rocks. Timber, scattered juniper.

From the cor. of secs. 25, 30, 31 and 36, on the E. bdy. of the Tp., mkd. by an iron post, 2 ins. diam., conforming to the record.

S. 89° 57' W., bet. secs. 25 and 36.

Over mountainous desert land of Thomas Range, covered with scattered juniper; desc. 800 ft. over broken and ledgy NW. slope. By triangulation, with topography scaled from U. S. G. S. quadrangle sheets.

29.00	Spur, slopes NW.; desc. 280 ft. over SW. slope.
39.80	Wash, 3 ft. deep, 10 lks. wide, drains W. irregularly.
39.89	Point for the ¼ sec. cor. of secs. 25 and 36.

Chains	
	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, 18 ins. high, with brass cap mkd. T12S R12W ¼ S25/S36 1960
	Asc. 20 ft. along N. slope above wash.
42.80	Small spur, slopes N. 1 ch. to wash; desc. 120 ft. over N. slope.
50.60	Same wash, drains SW. from E. irregularly; desc. 20 ft. over W. slope.
58.40	E. edge of open pit uranium mine (Yellow Chief); thence across pit. (In operation at time of survey.)
66.30	W. edge of same pit; desc. 80 ft. along S. slope of small draw.
79.78	The cor. of secs. 25, 26, 35 and 36.
	Land, broken mountains. Soil, gravel and rocks. Timber, very scattered juniper.
	From the cor. of secs. 3, 4, 33 and 34, on the S. bdy. of the Tp., mkd. by an iron post, 2 ins. diam., conforming to the official record.
	N. 0° 02' W., bet. secs. 33 and 34.
	Over mountainous desert land of Spor Mountain; asc. 65 ft. over S. slope.
8.20	Spur, slopes W.; desc. 55 ft. over N. slope.
13.25	Wash, 3 ft. deep, 20 lks. wide, drains W.; asc. 310 ft. over broken S. slope.
26.90	Slope changes; asc. 130 ft. along W. slope.
36.10	Top of ascent on W. slope; desc. 30 ft. along W. slope.
40.00	Point for the ¼ sec. cor. of secs. 33 and 34.
	Set an iron post, 30 ins. long, 2½ ins. diam., on solid rock, over a cross (X), in a mound of stone, 4 ft. base to top, with brass cap mkd. T12S R12W ¼ S33|S34 1960
	Desc. 260 ft. along broken W. slope.
66.20	Wash, 6 ft. deep, 30 lks. wide, drains W.; asc. 115 ft. over S. slope.
69.20	Spur, slopes W.; desc. 110 ft. over N. slope.
77.00	Wash, 5 ft. deep, 2 chs. wide, drains S. 30° W.; asc. 55 ft. over steep S. 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, in a mound of stone, 3 ft. base to top, with brass cap mkd.

Survey of a Portion of the Subdivision of T. 12 S., R. 12 W.

Chains	
	T12S R12W S28 | S27 S33 | S34 1960 Land, broken mountains. Soil, gravel, rocks and ledges. Timber, very scattered juniper.
	N. 0° 02' W., bet. secs. 27 and 28. Over mountainous desert land of Spor Mountain; asc. 360 ft. over broken S. slope; by triangulation, with topography scaled from U. S. G. S. sheets.
16.00	Spur, slopes W.; desc. 220 ft. over N. slope.
23.50	Draw, drains W.; asc. 140 ft. over SW. slope.
32.00	Spur, slopes W.; desc. 100 ft. over N. slope.
36.50	Draw, drains W.; asc. 120 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., 6 ins. in the ground to bedrock, in a mound of stone, 4 ft. base to top, with brass cap mkd. T12S R12W ¼ S28 | S27 1960 Asc. 60 ft. over SW. slope; cont. by triangulation.
42.80	Spur, slopes W.; desc. about 200 ft. over N. slope.
54.80	Small wash, drains W.; asc. about 300 ft. over rough, broken land draining SW.
80.00	Point for the cor. of secs. 21, 22, 27 and 28. Set an iron post, 30 ins. long, 2½ ins. diam., 10 ins. in the ground to bedrock, in a mound of stone, 2½ ft. base to top, with brass cap mkd. T12S R12W S21 | S22 S28 | S27 1960 Land, rough broken slopes of Spor Mountain. Soil, shallow and rocky clay. Timber, thinly scattered scrub juniper.
	N. 0° 02' W., bet. secs. 21 and 22.
2.80	Top of knoll, on the divide of Spor Mountain, bears NW. and SE.; desc. 580 ft. along ledges facing W.

Chains	
34.40	Base of descent, bears N. 80° E. and S. 30° W.; desc. 20 ft. over N. slope.
37.20	Road, bears S. 60° W. and N. 60° E., 5 chs. to junction.
40.00	Point for the ¼ sec. cor. of secs. 21 and 22.
	Set an iron post, 30 ins. long, 2½ ins. diam., 15 ins. in the ground to bedrock, in a mound of stone, 2½ ft. base to top, with brass cap mkd.
	T12S R12W ¼ S21 | S22 1960
	From this cor. U. S. L. M. No. 279 bears S. 74° 58' W., 24.16 chs. dist., mkd. by a 2 ins. iron post, in large mound of stone, with brass cap mkd.
	USLM 279
	Desc. 10 ft. over slight N. slope.
43.80	Dirt road, bears N. 70° W. and S. 70° E.
44.80	Wash, 20 lks. wide, 3 ft. deep, drains N. 20° W.; desc. 50 ft. along rolling W. slope.
80.00	Point for the cor. of secs. 15, 16, 21 and 22.
	Set an iron post, 30 ins. long, 2½ ins. diam., 20 ins. in the ground, in a small mound of stone, with brass cap mkd.
	T12S R12W S16 | S15 S21 | S22 1960
	Land, broken breaks of Spor Mountain in the S. ½ mile and rolling land in the N. ½. Soil, shallow and rocky clay. Timber, thinly scattered scrub juniper.
	N. 0° 02' W., bet. secs. 15 and 16.
	Over gently rolling land draining W.
9.50	Wash, 30 lks. wide, 3 fth deep, drains S. 70° W.
30.20	Wash, 10 lks. wide, 2 ft. deep, drains S. 60° W.
40.00	Point for the ¼ sec. cor. of secs. 15 and 16.
	Set an iron post, 30 ins. long, 2½ ins. diam., 18 ins. in the ground, in a mound of stone to top, with brass cap mkd.
	T12S R12W ¼ S16 | S15 1960
	Cont. over gently rolling land draining W.

Chains	
48.50	Wash; 10 lks. wide; 3 ft. deep, drains W.
67.50	Wash, 30 lks. wide, 3 ft. deep, drains W.
74.50	Small wash, drains S. 70° W.
78.19	Small wash, drains S. 65° W.
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, in a small mound of stone to top, with brass cap mkd.

T12S R12W

S 9	S10
S16	S15

1960

Land, gently rolling.
Soil, sandy clay.
Timber, none.

	N. 0° 02' W., bet. secs. 9 and 10.
	Over gently rolling land draining W.; asc. 40 ft. over series of small washes and spurs putting W.
22.80	Wild Horse Spring, bears E. 9.00 chs. dist. A large water storage tank bears 4.00 chs. W. of spring.
29.10	Unimproved dirt road, bears SE. and SW.; asc. 10 ft. along W. slope.
40.00	Point for the ¼ sec. cor. of secs. 9 and 10.
	Set an iron post, 30 ins. long, 2½ ins. diam., 12 ins. in the ground to bedrock, in a mound of stone to top, with brass cap mkd.

T12S R12W

¼

S 9	S10

1960

	Asc. 20 ft. along W. slope.
53.50	Unimproved dirt road, bears N. 30° W. and S. 30° E.; asc. 10 ft. along W. slope.
60.20	Top of ascent on W. slope of spur sloping W.; desc. 70 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., 20 ins. in the ground in a small mound of stone to top, with brass cap mkd.

T12S R12W

S4	S3
S 9	S10

1960

Land, rolling.
Soil, shallow and rocky clay.
Timber, none.

Chains	
	N. 0° 07' W., bet. secs. 3 and 4.
	Over rolling land; asc. 10 ft. along W. slope.
10.10	Top of small spur, slopes W.; desc. 20 ft. along W. slope.
17.20	Wash, 20 lks. wide, 6 ft. deep, drains W.; asc. 40 ft. along W. slope.
33.00	Base of abrupt ascent, bears NW. and SE.; asc. 90 ft. over SW. slope.
37.90	Point selected for the witness ¼ sec. cor. of secs. 3 and 4.
	Set an iron post, 30 ins. long, 2½ ins. diam., 12 ins. in the ground to bedrock, in a mound of stone, 3 ft. base to top, with brass cap mkd
	T12S R12W W C ¼ S4 S3 1960
	Cont. by traverse from this point to the cor. of secs. 3, 4, 33 and 34, Tps. 11 and 12 S., R. 12 W.
40.00	True point for the ¼ sec. cor. of secs. 3 and 4 falls on face of ledges facing SW., where cor. cannot be monumented.
	Asc. about 300 ft. over ledges facing SW.
55.50	Approximate position of spur projecting NW.; desc. abruptly about 500 ft. over ledges facing N.
72.00	Approximate position of wash draining NW.; asc. about 30 ft. along W. slope.
80.18	The cor. of secs. 3, 4, 33 and 34, Tps. 11 and 12 S., R. 12 W., mkd. by an iron post, 2 ins. diam., set, mkd. and witnessed as described in the official record.
	Land, rough and broken. Soil, shallow and rocky clay. Timber, scattered scrub juniper in the higher elevations.

	From the cor. of secs. 2, 3, 34 and 35, on the N. bdy. of the Tp., mkd. by an iron post, 2 ins. diam., set, mkd. and witnessed as described in the official record.
	S. 0° 01' E., bet. secs. 2 and 3.
	Over mountainous land, through scattered scrub juniper; by triangulation from the cor. point.
	Desc. about 20 ft. along W. slope.
8.50	Wash, 5 lks. wide, 4 ft. deep, drains NW.; asc. about 700 ft. over broken ledges facing NE.
30.00	Spur, slopes NW. from S. irregularly; thence along top of spur.
32.00	Point selected for the witness 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, in a mound of stone, 4 ft. base to top, with brass cap mkd

Survey of a Portion of the Subdivision of T. 12 S., R. 12 W.

Chains	
	T12S R12W ¼ S3 | S2 W C 1960
	Asc. about 300 ft. over ledges facing E.; cont. by triangulation.
40.12	True point for the ¼ sec. cor. of secs. 2 and 3 falls on face of ledges facing E. where the cor. cannot be monumented.
76.00	Leave ledges; asc. 80 ft. over NE. slope.
80.12	Point for the 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, in a mound of stone, 3½ ft. base to top, with brass cap mkd.
	T12S R12W S3 | S2 S10 | S11 1960
	Land, rough and broken mountains. Soil, shallow and rocky clay. Timber, scattered to medium juniper.
	N. 89° 57' E., bet. secs. 2 and 11, on a course calculated bet. the cor. of secs. 1, 6, 7 and 12 on the E. bdy. and the cor. of secs. 3, 4, 9 and 10.
	Over mountainous land, through medium timber; desc. 50 ft. over ledges on broken N. slope.
16.00	Wash, 50 lks. wide, 10 ft. deep, drains N.; asc. 200 ft. over ledgy W. slope.
35.60	Spur, slopes N. 30° W.; desc. 10 ft. over NE. slope.
40.00	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, 3 ft. base to top, with brass cap mkd.
	T12S R12W ¼ S 2 S11 1960
	Asc. 80 ft. over rolling W. slope.
65.10	Top of ascent on the Thomas Range, on a spur sloping N. 20° W.; desc. 180 ft. over E. slope.
75.30	Base of descent on E. slope, bears N. and S.; desc. 30 ft. over rolling land, draining N.
80.00	Point for the cor. of secs. 1, 2, 11 and 12.
	Set an iron post, 30 ins. long, 2½ ins. diam., 7 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—26290-2 1-1

Chains	
	T12S R12W S2 | S1 S11 | S12 1960 Land, mountainous. Soil, shallow and rocky clay. Timber, scattered to medium juniper.
	N. 0° 20' W., bet. secs. 1 and 2. Over mountainous land, through scattered juniper; desc. 250 ft. over series of minor drains and spurs running E.
25.40	Wash, at bend in bottom of canyon, drains N. 30° E. from S. 30° E.; asc. 40 ft. along steep E. 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, in a mound of stone, 3½ ft. base to top, with brass cap mkd. T12S R12W ¼ S2 | S1 1960
	Asc. 20 ft. along E. slope.
41.00	Top of ascent on W. side of canyon; desc. 210 ft. along steep ledgy E. slope into canyon.
55.80	Wash, in bottom of canyon, 40 lks. wide, drains N. 10° W.; asc. 20 ft. along broken ledges facing W.
79.94	The true point for the cor. of secs. 1, 2, 35 and 36, on the N. bdy. of the Tp. From this point the witness cor. of secs. 1, 2, 35 and 36, bears E. 3.42 chs. dist., mkd. by an iron post, 2 ins. diam., set, mkd. and witnessed as described in the official record. Land, rough and broken. Soil, shallow and rocky clay. Timber, scattered juniper.
	From the cor. of secs. 15, 16, 21 and 22. N. 89° 59' W., bet. secs. 16 and 21. Over gently rolling land; desc. 40 ft. over slight W. slope.
19.30	Wash, 50 lks. wide, 4 ft. deep, drains S. 70° W.; desc. 20 ft. over W. slope.
30.10	Recross wash, with road in bottom, drains NW.; asc. 30 ft. along slight N. slope.

Survey of a Portion of the Subdivision of T. 12 S., R. 12 W.

Chains	
40.00	Point for the ¼ sec. cor. of secs. 16 and 21. Set an iron post, 30 ins. long, 2½ ins. diam., 14 ins. in the ground to bedrock, in a mound of stone, 3 ft. base to top, with brass cap mkd. T12S R12W ¼ S16/S21 1960 Asc. 340 ft. along broken N. slope.
67.90	Top of ascent, slopes N.; desc. 10 ft. along broken N. slope.
80.00	Point for the cor. of secs. 16, 17, 20 and 21. Set an iron post, 30 ins. long, 2½ ins. diam., 11 ins. in the ground to bedrock, in a mound of stone, 3 ft. base to top, with brass cap mkd. T12S R12W S17 | S16 S20 | S21 1960 Land, rolling in the east half and broken in the west half. Soil, shallow and rocky clay. Timber, thinly scattered scrub juniper.
	N. 0° 03' W., bet. secs. 16 and 17. Over broken land, through thinly scattered scrub juniper; desc. 380 ft. along spur sloping N.
40.00	Point for the 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, 3½ ft. base to top, with brass cap mkd. T12S R12W ¼ S17 | S16 1960 Desc. 50 ft. over N. slope.
48.00	Wash, 60 lks. wide, 5 ft. deep, drains N. 30° W.; road bears N. 30° W.; and S. 30° E., along bottom of wash; cont. along gentle W. slope.
62.90	Wash, 50 lks. wide, 4 ft. deep, drains W.; cont. along gentle W. slope.
80.00	Point for the cor. of secs. 8, 9, 16 and 17. 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. T12S R12W S8 | S9 S17 | S16 1960 Land, gently rolling; Soil, shallow and rocky clay. Timber, thinly scattered scrub juniper.

U. S. GOVERNMENT PRINTING OFFICE 16—28530-2 1-1

Survey of a Portion of the Subdivision of T. 12 S., R. 12 W.

Chains	
	From the cor. of secs. 9, 10, 15 and 16.
	S. 89° 59' W., bet. secs. 9 and 16.
	Through thinly scattered scrub juniper, over gently rolling W. slope; desc. 160 ft.
38.50	Unimproved dirt road, bears N. 60° E. and S. 80° W.; desc. 20 ft.
39.98	Point for the ¼ sec. cor. of secs. 9 and 16.
	Set an iron post, 30 ins. long, 2½ ins. diam., 16 ins. in the ground to bedrock, in a small mound of stone to top, with brass cap mkd.
	T12S R12W ¼ S 9 / S16 1960
	Desc. 20 ft. over gently rolling W. slope.
56.40	Recross road, bears NW. and SE.; desc. 70 ft. over gentle W. slope.
79.96	The cor. of secs. 8, 9, 16 and 17.
	Land, gently rolling. Soil, rocky clay. Timber, thinly scattered scrub juniper.
	From the cor. of secs. 4, 5, 32 and 33, on the S. bdy. of the Tp., which is mkd. by an iron post, 2 ins. diam., set, mkd. and witnessed as described in the official record.
	N. 0° 03' W., bet. secs. 32 and 33.
	Over rolling land, through thinly scattered scrub juniper; asc. 20 ft. over S. slope.
2.20	Top of ascent, slopes W.; desc. 50 ft. over NW. slope.
10.80	Wash, 20 lks. wide, 2 ft. deep, drains SW.; asc. 250 ft. over SE. slope.
26.50	Spur, slopes SW.; desc. 120 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., 14 ins. in the ground to bedrock, in a mound of stone, 2½ ft. base to top, with brass cap mkd.
	T12S R12W ¼ S32 | S33 1960
	Desc. 90 ft. over N. slope.
46.50	Wash, 30 lks. wide, 3 ft. deep, drains N. 70° W.; cont. along rolling W. slope.
59.50	Unimproved road, bears N. 30° E. and S. 30° W.; desc. 10 ft. along W. slope.
74.00	Wash, 40 lks. wide, 3 ft. deep, drains S. 80° W.; asc. 40 ft. over S. slope.

Survey of a Portion of the Subdivision of T. 12 S., R. 12 W.

Chains	
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. T12S R12W S29 | S28 S32 | S33 1960 Land, rolling. Soil, rocky clay. Timber, thinly scattered scrub juniper.
	From the cor. of secs. 5, 6, 31 and 32, on the S. bdy. of the Tp., mkd. by an iron post, 2 ins. diam., set, mkd. and witnessed as described in the official record. N. 0° 03' W., bet. secs. 31 and 32. Over rolling land, through thinly scattered scrub juniper; desc. 10 ft. along slight W. slope.
9.40	Unimproved road, bears E. and W.; asc. 40 ft. over slight W. slope.
40.00	Point for the ¼ sec. cor. of secs. 31 and 32. Set an iron post, 30 ins. long, 2½ ins. diam., 12 ins. in the ground to bedrock, in a mound of stone, 3 ft. base to top, with brass cap mkd. T12S R12W ¼ S31 | S32 1960 Cont. along slight W. slope.
65.70	Wash, 40 lks. wide, 3 ft. deep, drains N. 70° W.; asc. 50 ft. over SW. slope.
80.00	Point for the cor. of secs. 29, 30, 31 and 32. Set an iron post, 30 ins. long, 2½ ins. diam., 20 ins. in the ground, in a small mound of stone to top, with brass cap mkd. T12S R12W S30 | S29 S31 | S32 1960 Land, rolling. Soil, shallow rocky clay. Timber, thinly scattered scrub juniper.
	From the cor. of secs. 28, 29, 32 and 33. N. 89° 55' W., bet. secs. 29 and 32. Over rolling land, through thinly scattered scrub juniper; desc. 80 ft. over rolling land draining SW.
40.01	Point for the ¼ sec. cor. of secs. 29 and 32.

of a Portion of the Subdivision of T. 12 S., R. 12 W.

Chains	
	Set an iron post, 30 ins. long, 2½ ins. diam., 20 ins. in the ground, in a small mound of stone to top, with brass cap mkd. T12S R12W ¼ S29/S32 1960
	Asc. 10 ft. along S. slope.
46.30	Top of ascent, slopes S.; desc. 130 ft. over gently rolling land draining SW.
80.02	The cor. of secs. 29, 30, 31 and 32.
	Land, rolling. Soil, shallow and rocky clay. Timber, thinly scattered scrub juniper.

General Description

The township is located about 12 miles east of Fish Springs Wildlife Refuge in Central Western Utah.

The Thomas Mountains range northwest and southeast through the northeastern portion of the township. Spor Mountain is located in the south central portion, with Dugway Dell running between it and the Thomas Mountains. The land descends from the mountains to Fish Springs Flat along the west boundary. Drainage in the township is west to Fish Springs Flat, except for the southeast quarter which drains south.

The soil varies from shallow rocky clay in the mountains to clay in the flats. There is a fair growth of juniper in the higher elevations of the mountains, but only a fair growth of undergrowth is found elsewhere in the township.

An improved dirt road enters the township on the south boundary of section 35 bearing northerly around the east end of Spor Mountain, thence running northwesterly through Dugway Dell to Fish Springs Flat, leaving on the west boundary of section 7. Another dirt road leaves the above mentioned road near the north end of Spor Mountain, bearing northerly and leaves the township on the north boundary of section 4.

Wild Horse Spring is located in unsurveyed section 10. The water in the spring is too salty for human consumption.

There are no permanent residents or cultivated areas in the township. Several mines are located in sections 21 and 28. An active open pit uranium mine is located on the north boundary of section 36.

Chains

4-680
(Feb., 1950)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FIELD ASSISTANTS

NAMES	CAPACITY
Virgil E. Spratt	Transit (Crew Chief)
William R. Savage	Notes
Morris E. Blackburn	Front Chain
George D. Roundy	Cornerman
Elbert O. Jensen	Flagman

16—55505-2

CERTIFICATE OF CADASTRAL ENGINEER

I, Craig P. Sylvester, HEREBY CERTIFY upon honor that, in pursuance of special instructions bearing date of the 15th day of August, 1936, and supplemental special instructions dated May 11, 1959 I have ~~surveyed~~ supervised the survey of a portion of the subdivision of T. 12 S., R. 12 W.

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 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

January 23, 1961

Craig P. Sylvester

Craig P. Sylvester, Cadastral Surveyor

CERTIFICATE OF APPROVAL

BUREAU OF LAND MANAGEMENT,

Washington, D. C., APR 17 1962, *19*

The foregoing field notes of the survey of a portion of the subdivision of T. 12 S., R. 12 W., Salt Lake Meridian, Utah

executed by Virgil E. Spratt, under the supervision of Craig P. Sylvester, Chief of having been critically examined and found correct, are hereby approved.

E. E. Lemmington

~~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.~~

~~Cadastral Engineering Staff Officer.~~

U. S. GOVERNMENT PRINTING OFFICE

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

ORIGINAL

FIELD NOTES

OF THE

SURVEY OF

A PORTION OF THE SUBDIVISION

OF

TOWNSHIP 12 SOUTH, RANGE 13 WEST

Of the Salt Lake *Meridian,*

In the State of Utah

EXECUTED BY

Donald A. Cannon, Cadastral Surveyor

Craig P. Sylvester, Cadastral Surveyor
(Chief of Party)

Under special instructions dated August 25 *, 19*36 *, which provided*
and supplemental special instructions dated May 1, 1959
for the surveys included under Group No. 278 *, approved* May 12, 1959

and assignment instructions dated April 26 *, 19*60

Survey commenced May 23 *, 19*60

Survey completed May 27 *, 19*60

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

2C

INDEX DIAGRAM

Township 12 South, *Range* 13 West

6	5	4	5 3 7	8 2 6	8 1 6
7	8	9 10	5 10	11	12
18	17	9 16 9	4 15	14	13
19	20	21	4 22	23	24
30	29 12	28	3 27	26	25 2
31	11 32	10 33	2 34	35	1 36

16—56770-1

Township 12 South, Range 13 West

Chains

The south boundary was surveyed by F. Dickert in 1882 and was independently resurveyed by Elliot Bird in 1948. The east boundary was surveyed by F. Dickert in 1882 and independently resurveyed by Elliot Bird in 1948. The west boundary was surveyed by F. Dickert in 1882 and independently resurveyed by Robert Yundt in 1948. The north boundary was surveyed by F. Dickert in 1882 and independently resurveyed by Elliot Bird and Robert Yundt in 1948.

The following field notes are those of a survey of a portion of the subdivision of T. 12 S., R. 13 W., 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 W. and L. E. Gurley solar transit No. 541331, 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 1 chain standard steel tape and found 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.

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° 43' 35.16" N. and longitude 113° 14' 51.79" W., as adjusted from traverses to U. S. G. S. triangulation stations "Fish" and "Detroit".

The magnetic declination was read at a number of stations throughout the township and the average of these readings was found to be 16° 30' East.

Survey of a Portion of the Subdivision of T. 12 S., R. 13 W.

Beginning the subdivisional survey at the cor. of secs. 1, 2, 35 and 36, on the S. bdy. of the Tp., which is monumented by an iron post, 2 ins. diam., set, mkd. and witnessed as described in the official record of the independent resurvey of 1948.

N. 0° 01' W., bet. secs. 35 and 36.

Over nearly level land of Fish Springs Flats, along a gentle 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., 24 ins. in the ground, with brass cap mkd.

T12S R13W
S35 ¼ S36
1960

Chains	
	Raise a mound of stone, 2½ ft. base, 2 ft. high, W. of iron post.
	Continue along gentle W. slope of Fish Springs Flats.
80.00	Point for the cor. of secs. 25, 26, 35 and 36.
	Set an iron post 30 ins. long, 2½ ins. diam., 24 ins. in the ground, with brass cap mkd. T12S R13W S26 | S25 S35 | S36 1960
	Raise a mound of stone, 2½ ft. base, 2 ft. high, W. of iron post.
	Land, level. Soil, clay. Timber, none. Undergrowth, sage and shadscale.
	From the cor. of secs. 25, 30, 31 and 36, on the E. bdy. of the Tp., which is monumented by an iron post, 2 ins. diam., set, mkd. and witnessed as described in the official record of the independent resurvey of 1948.
	S. 89° 58' W., bet. secs. 25 and 36.
	Over nearly level land of Fish Springs Flats; desc. over gentle W. slope.
29.00	Small wash, drains S. 70° W.; desc. gentle W. slope.
39.98	Point for the ¼ sec. cor. of secs. 25 and 36.
	Set an iron post, 30 ins. long, 2½ ins. diam., 24 ins. in the ground, with brass cap mkd. T12S R13W ¼ S25 S36 1960
	Raise a mound of stone, 2½ ft. base, 2 ft. high, N. of iron post.
	Desc. gentle W. slope.
79.96	The cor. of secs. 25, 26, 35 and 36.
	Land, level. Soil, clay. Timber, none. Undergrowth, sage and shadscale.
	From the cor. of secs. 3, 4, 33 and 34, on the S. bdy. of the Tp., which is monumented by an iron post, 2 ins. diam., set, mkd. and witnessed as described in the official record of the independent resurvey of 1948.
	N. 0° 02' W., bet. secs. 33 and 34.
	Over level bottom land of Fish Springs Flats, covered with scattered sage and greasewood.
40.00	Point for the ¼ sec. cor. of secs. 33 and 34.
	Set an iron post, 30 ins. long, 2½ ins. diam., 24 ins. in the ground, with brass cap mkd.

Chains	
	T12S R13W ¼ S33 | S34 1960
	Raised mound of stone, 2½ ft. base, 2 ft. high, W. of iron post.
	Cont. over level bottom land.
80.00	Point for the cor. of secs. 27, 28, 33 and 34.
	Set an iron post, 30 ins. long, 2½ ins. diam., 24 ins. in the ground, with brass cap mkd.
	T12S R13W S28 | S27 S33 | S34 1960
	Raise a mound of stone, 2½ ft. base, 2 ft. high, W. of iron post.
	Land, level bottom. Soil, clay alkali. Timber, none. Undergrowth, scattered greasewood and sage.
	N. 0° 02' W., bet. secs. 27 and 28.
	Over level bottom land of Fish Springs Flats.
40.00	Point for the ¼ sec. cor. of secs. 27 and 28.
	Set an iron post, 30 ins. long, 2½ ins. diam., 24 ins. in the ground, with brass cap mkd.
	T12S R13W ¼ S28 | S27 1960
	Raise a mound of stone, 2 ft. base, 2 ft. high, W. of cor.
	Cont. over level bottom land.
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 ground, with brass cap mkd.
	T12S R13W S21 | S22 S28 | S27 1960
	Raise a mound of stone, 2½ ft. base, 2 ft. high, W. of iron post.
	Land, level bottom. Soil, clay alkali. Timber, none. Undergrowth, greasewood and scattered sage.

Survey of a Portion of the Subdivision of T. 12 S., R. 13 W.

Chains	
	N. 0° 02' W., bet. secs. 21 and 22.
	Over level bottom land of Fish Springs Flats.
40.00	Point for the ¼ sec. cor. of secs. 21 and 22.
	Set an iron post, 30 ins. long, 2½ ins. diam., 24 ins. in the ground, with brass cap mkd.

T12S R13W
¼
S21 | S22
1960

Chains	
	Raise a mound of stone, 2½ ft. base, 2 ft. high, W. of iron post.
	Cont. over level bottom land.
80.00	Point for the cor. of secs. 15, 16, 21 and 22.
	Set an iron post, 30 ins. long, 2½ ins. diam., 24 ins. in the ground, with brass cap mkd.

T12S R13W
S16 | S15
S21 | S22
1960

Chains	
	Raise a mound of stone, 2 ft. base, 2 ft. high, W. of iron post.
	Land, level bottom.
	Soil, clay alkali.
	Timber, none.
	Undergrowth, greasewood and scattered shadscale.

Chains	
	N. 0° 02' W., bet. secs. 15 and 16.
	Over level bottom land of Fish Springs Flats.
40.00	Point for the ¼ sec. cor. of secs. 15 and 16.
	Set an iron post, 30 ins. long, 2½ ins. diam., 24 ins. in the ground, with brass cap mkd.

T12S R13W
¼
S16 | S15
1960

Chains	
	Deposit broken glass with iron post.
	Cont. over level bottom land.
80.00	Point for the cor. of secs. 9, 10, 15 and 16.
	Set an iron post, 30 ins. long, 2½ ins. diam., 24 ins. in the ground, with brass cap mkd.

T12S R13W
S 9 | S10
S16 | S15
1960

Chains	
	Raise a mound of stone, 2 ft. base, 2 ft. high, W. of iron post.

Survey of a Portion of the Subdivision of T. 12 S., R. 13 W.

Chains	
	Land, level bottom. Soil, clay alkali. Timber, none. Undergrowth, scattered greasewood and shadscale.
	N. 0° 02' W., bet. secs. 9 and 10. Over level bottom land of Fish Springs Flats.
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. T12S R13W ¼ S 9 | S10 1960 Raise a mound of stone, 2½ ft. base, 2 ft. high, W. of iron post. Cont. over level bottom land.
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, with brass cap mkd. T12S R13W S4 | S3 S 9 | S10 1960 Raise a mound of stone, 2 ft. base, 2 ft. high, W. of iron post. Land, level bottom. Soil, clay alkali. Timber, none. Undergrowth, scattered greasewood and shadscale.
	N. 0° 10' W., bet. secs. 3 and 4. Over level bottom land of Fish Springs Flats.
40.00	Point for the ¼ sec. cor. of secs. 3 and 4. Set an iron post, 30 ins. long, 2½ ins. diam., 24 ins. in the ground, with brass cap mkd. T12S R13W ¼ S4 | S3 1960 Raise a mound of stone, 2½ ft. base, 2 ft. high, W. of iron post. Cont. over level bottom land.
79.91	Intersect the N. bdy. of the Tp. at the cor. of secs. 3, 4, 33 and 34, which is monumented by an iron post, 2 ins. diam., set, mkd. and witnessed as described in the official record of the independent resurvey of 1948.

Survey of a Portion of the Subdivision of T. 12 S., R. 13 W.

Chains	
	Land, level bottom. Soil, clay alkali. Timber, none. Undergrowth, scattered greasewood and salt grass.
	From the cor. of secs. 1, 6, 7 and 12, on the E. bdy. of the Tp., which is monumented by an iron post, 2 ins. diam., set, mkd. and witnessed as described in the official record of the independent resurvey of 1948.
	West, bet. secs. 1 and 12.
	Over rolling desert land on E. side of Fish Springs Flats; desc. gentle W. slope.
4.60	Small wash, drains SW.; desc. 20 ft. over gentle W. slope.
39.96	Point for the ¼ sec. cor. of secs. 1 and 12, at proportionate dist.;
	Set an iron post, 30 ins. long, 2½ ins. diam., 24 ins. in the ground, with brass cap mkd. T12S R13W ¼ S 1 S12 1960
	Raise a mound of stone, 2 ft. base, 2 ft. high, N. of iron post.
	Desc. gentle W. slope.
42.20	Wash, 30 lks. wide, 3 ft. deep, drains SW.; desc. gentle W. slope.
47.90	Unimproved road, bears SW. and NE.; desc. gentle W. slope.
69.40	Wash, 70 lks. wide, 2 ft. deep, drains SW.; desc. 10 ft. over W. slope.
79.92	Point for the cor. of secs. 1, 2, 11 and 12, at proportionate dist.
	Set an iron post, 30 ins. long, 2½ ins. diam., 24 ins. in the ground, with brass cap mkd. T12S R13W S2 | S1 S11 | S12 1960
	Raise a mound of stone, 2½ ft. base, 2 ft. high, W. of iron post.
	Land, rolling. Soil, clay gravel spots. Timber, none. Undergrowth, sage, shadscale, blackbrush and scattered bunch grass.
	West, bet. secs. 2 and 11.
	Over gently rolling land of Fish Springs Flats; desc. gentle W. slope.
9.20	Wash, 30 lks. wide, 2 ft. deep, drains SW.; desc. W. slope.

Survey of a Portion of the Subdivision of T. 12 S., R. 13 W.

Chains	
39.96	Point for the ¼ sec. cor. of secs. 2 and 11, at proportionate dist. Set an iron post, 30 ins. long, 2½ ins. diam., 24 ins. in the ground, with brass cap mkd. T12S R13W ¼ S 2 / S11 1960 Raise a mound of stone, 2½ ft. base, 2 ft. high, N. of iron post. Desc. gentle W. slope.
45.10	Unimproved road, bears SW. and NE.; desc. gentle W. slope.
79.92	Point for the cor. of secs. 2, 3, 10 and 11, at proportionate dist. Set an iron post, 30 ins. long, 2½ ins. diam., 24 ins. in the ground, with brass cap mkd. T12S R13W S3 | S2 S10 | S11 1960 Raise a mound of stone, 2 ft. base, 2 ft. high, W. of iron post. Land, rolling. Soil, clay. Timber, none. Undergrowth, sage, shadscale and black brush.
	West, bet. secs. 3 and 10. Over nearly level bottom land of Fish Springs Flats.
39.96	Point for the ¼ sec. cor. of secs. 3 and 10, at proportionate dist. Set an iron post, 30 ins. long, 2½ ins. diam., 24 ins. in the ground, with brass cap mkd. T12S R13W ¼ S 3 / S10 1960 Raise a mound of stone, 2½ ft. base, 2 ft. high, N. of iron post. Cont. over level bottom land.
79.92	The cor. of secs. 3, 4, 9 and 10. Land, level bottom. Soil, clay and some alkali. Timber, none. Undergrowth, greasewood, blackbrush and sage.

Survey of a Portion of the Subdivision of T. 12 S., R. 13 W.

Chains	
	From the cor. of secs. 1, 2, 11 and 12.
	N. 0° 05' W., bet. secs. 1 and 2.
	Over rolling desert land of Fish Springs Flats, along gentle W. slope.
13.30	Unimproved road, bears E. and W.
40.00	Point for the ¼ sec. cor. of secs. 1 and 2.
	Set an iron post, 30 ins. long, 2½ ins. diam., 14 ins. in the ground and in a mound of stone, 3 ft. base to top, with brass cap mkd. T12S R13W ¼ S2 | S1 1960
	Asc. 20 ft. along gentle W. slope.
45.39	Base of rocky hill, bears E. and W.; asc. 135 ft. over S. slope.
61.11	Top of rocky hill, bears NE. and SW.; desc. 50 ft. along NW. slope.
80.01	Intersect the N. bdy. of the Tp. at the cor. of secs. 1, 2, 35 and 36, which is monumented by an iron post, 2 ins. diam., set, mkd. and witnessed as described in the official record of the independent resurvey of 1948.
	Land, rolling S. portion; broken N. portion. Soil, clay gravel S. portion; rocky on N. portion. Timber, very scattered juniper on hills. Undergrowth, sage, shadscale and black brush.
	From the cor. of secs. 2, 3, 10 and 11.
	N. 0° 07' W., bet. secs. 2 and 3.
	Over gently rolling land of Fish Springs Flats, draining W.
40.00	Point for the cor. of secs. 2 and 3.
	Set an iron post, 30 ins. long, 2½ ins. diam., 24 ins. in the ground, with brass cap mkd. T12S R13W ¼ S3 | S2 1960
	Cont. along gentle W. slope.
41.70	Unimproved road, bears SE. and NW.; asc. along SW. slope.
58.80	Small wash, drains SW.; cont. along SW. slope.
65.40	Wash, 20 lks. wide, 4 ft. deep, drains SW.; asc. 95 ft. over rocky SW. slope.
79.96	Intersect the N. bdy. of the Tp. at the cor. of secs. 2, 3, 34 and 35, which is monumented by an iron post, 2 ins. diam., set, mkd. and witnessed as described in the official record of the independent resurvey of 1948.

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Chains	
	Land, rolling S. portion, slightly broken N. portion. Soil, clay on S. portion, rocky on N. portion. Timber, none. Undergrowth, sage, shadscale, blackbrush and scattered bunch grass.
	From the cor. of 15, 16, 21 and 22. West, bet. secs. 16 and 21. Over level bottom land of Fish Springs Flats.
17.30	Old trail road, bears NE. and SW.
40.00	Point for the ¼ sec. cor. of secs. 16 and 21. Set an iron post, 30 ins. long, 2½ ins. diam., 24 ins. in the ground, with brass cap mkd. T12S R13W ¼ S16 S21 1960 Raise a mound of stone, 2½ ft. base, 2 ft. high, N. of iron post. Cont. over level bottom land.
80.00	Point for the cor. of secs. 16, 17, 20 and 21. Set an iron post, 30 ins. long, 2½ ins. diam., 24 ins. in the ground, with brass cap mkd. T12S R13W S17 | S16 S20 | S21 1960 Raise a mound of stone, 2 ft. base, 2 ft. high, W. of iron post. Land, level bottom. Soil, clay alkali. Timber, none. Undergrowth, greasewood and shadscale.
	N. 0° 03' W., bet. secs. 16 and 17. Over level bottom land of Fish Springs Flats.
40.00	Point for the ¼ sec. cor. of secs. 16 and 17. Set an iron post, 30 ins. long, 2½ ins. diam., 24 ins. in the ground, with brass cap mkd. T12S R13W ¼ S17 | S16 1960 No accessories available. Cont. over level bottom land.

Survey of a Portion of the Subdivision of T. 12 S., R. 13 W.

Chains	
80.00	Point for the cor. of secs. 8, 9, 16 and 17.
	Set an iron post, 30 ins. long, 2½ ins. diam., 24 ins. in the ground, with brass cap mkd.
	T12S R13W S8 | S9 S17 | S16 1960
	Deposit charcoal at base of iron post.
	Land, level bottom. Soil, clay alkali. Timber, none. Undergrowth, greasewood, shadscale and scattered salt grass.
	From the cor. of secs. 9, 10, 15 and 16.
	West, bet. secs. 9 and 16.
	Over level bottom land of Fish Springs Flats.
40.00	Point for the ¼ sec. cor. of secs. 9 and 16.
	Set an iron post, 30 ins. long, 2½ ins. diam., 24 ins. in the ground, with brass cap mkd.
	T12S R13W ¼ S 9 S16 1960
	Deposit charcoal at base of iron post.
	Cont. over level bottom land.
80.00	The cor. of secs. 8, 9, 16 and 17.
	Land, level bottom. Soil, clay alkali. Timber, none. Undergrowth, scattered greasewood and salt grass.
	From the cor. of secs. 4, 5, 32 and 33, on the S. bdy. of the Tp., which is monumented by an iron post, 2 ins. diam., set, mkd. and witnessed as described in the official record of the independent resurvey of 1948.
	N. 0° 03' W., bet. secs. 32 and 33.
	Over level bottom land of Fish Springs Flats.
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 ground, with brass cap mkd.
	T12S R13W ¼ S32 | S33 1960

Chains	
	Raise a mound of stone, 2 ft. base, 2 ft. high, W. of iron post.
	Cont. over level bottom land.
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.
	T12S R13W S29 | S28 S32 | S33 1960
	Raise a mound of stone, 2½ ft. base, 2 ft. high, W. of iron post.
	Land, level bottom. Soil, clay alkali. Timber, none. Undergrowth, greasewood and salt grass.
	From the cor. of secs. 5, 6, 31 and 32, on the S. bdy. of the Tp., which is monumented by an iron post, 2 ins. diam., set, mkd. and witnessed as described in the official record of the independent resurvey of 1948.
	N. 0° 03' W., bet. secs. 31 and 32.
	Over level bottom land of Fish Springs Flats.
40.00	Point for the ¼ sec. cor. of secs. 31 and 32.
	Set an iron post, 30 ins. long, 2½ ins. diam., 24 ins. in the ground, with brass cap mkd.
	T12S R13W ¼ S31 | S32 1960
	Raise a mound of stone, 2½ ft. base, 2 ft. high, W. of iron post.
	Cont. over level bottom land.
80.00	Point for the cor. of secs. 29, 30, 31 and 32.
	Set an iron post, 30 ins. long, 2½ ins. diam., 24 ins. in the ground, with brass cap mkd.
	T12S R13W S30 | S29 S31 | S32 1960
	Raise a mound of stone, 2½ ft. base, 2 ft. high, W. of iron post.
	Land, level bottom. Soil, clay alkali. Timber, none. Undergrowth, greasewood and salt grass.

of a Portion of the Subdivision of T. 12 S. R. 1 W.

Chains	
	From the cor. of secs. 28, 29, 32 and 33.
	S. 89° 58' W., bet. secs. 29 and 32.
	Over level bottom land of Fish Springs Flats.
39.99	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.
	T12S R13W ¼ S29/S32 1960
	Raise a mound of stone, 2 ft. base, 2 ft. high, N. of iron post.
	Cont. over level bottom land.
79.98	The cor. of secs. 29, 30, 31 and 32.
	Land, level bottom. Soil, clay alkali. Timber, none. Undergrowth, greasewood and salt grass.

General Description

T. 12 S., R. 13 W. consists entirely of level to rolling land of Fish Springs Flats with the exception of a few spurs of the Thomas Mountain which extends into the extreme NE. corner of the township.

A dirt road (Fish Springs to Sand Pass) passes through the southeast corner of section 31. Most of the township can be traveled with 4-wheel drive vehicles during the dry season, but becomes very slick and boggy during winter and spring seasons.

Permanent water consists of a few sloughs and bog holes in the northwest portion. The water is alkali and unfit for human use. The soil is clay with high alkali content.

The only timber on the township consists of a few scrub juniper in the hills of the northeast portion. The undergrowth consists of salt grass and greasewood with a few reeds around the sloughs on the lower elevations. Shadscale, blackbrush, sage and scattered bunch grass cover the higher elevations of the township.

The elevation varies from about 4300 to 5000 feet above sea level.

U. S. GOVERNMENT PRINTING OFFICE 16—28580-2 1-1

4-600
(Feb., 1960)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FIELD ASSISTANTS

NAMES	CAPACITY
Donald A. Cannon	Crew Chief (Cornerman)
James R. Munson	Transit
Jeddie J. Judd	Notes
John D. Carter	Front Chain
Dennis D. Bland	Flagman

CERTIFICATE OF CADASTRAL ENGINEER

We, Craig P. Sylvester and Donald A. Cannon, HEREBY CERTIFY upon honor that, in pursuance of special instructions bearing date of the 25th day of August, 1936, and supplemental special instructions dated May 1, 1959, we have surveyed a portion of the subdivision of T. 12 S., R. 13 W.

of the Salt Lake Meridian, in the State of Utah, which are represented in the foregoing field notes as having been executed by us and under our 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

January 31, 1961

Craig P. Sylvester, Cadastral Surveyor

Donald A. Cannon, Cadastral Surveyor

CERTIFICATE OF APPROVAL

BUREAU OF LAND MANAGEMENT,

Washington, D. C., APR 17 1962, *19*

The foregoing field notes of the survey of a portion of the subdivision of T. 12 S., R. 13 W., Salt Lake Meridian, Utah

executed by Craig P. Sylvester and Donald A. Cannon, Cadastral Surveyors

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

~~Cadastral Engineering Staff Officer.~~

Chief, Division of Engineering

I CERTIFY that the fo[illegible]ipt of the field notes of the above-described surveys in T. 12 S., R. 13 W., SLM, Utah, is a true copy of the [illegible] notes.

4—GTP
(September 1948)

35

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

ORIGINAL

FIELD NOTES

OF THE

SURVEY OF A PORTION

OF THE SUBDIVISION

OF

TOWNSHIP 13 SOUTH, RANGE 13 WEST

Of the Salt Lake *Meridian,*

the State of Utah

EXECUTED BY

Craig P. Sylvester, Cadastral Surveyor (Chief of Party)

Donald A. Cannon, Cadastral Surveyor

nder special instructions dated August 25 *, 1936 , which provided*
d supplemental special instructions dated May 1, 1959
r the surveys included under Group No. 278 *, approved* May 12, 1959

d assignment instructions dated April 28 *, 1960*

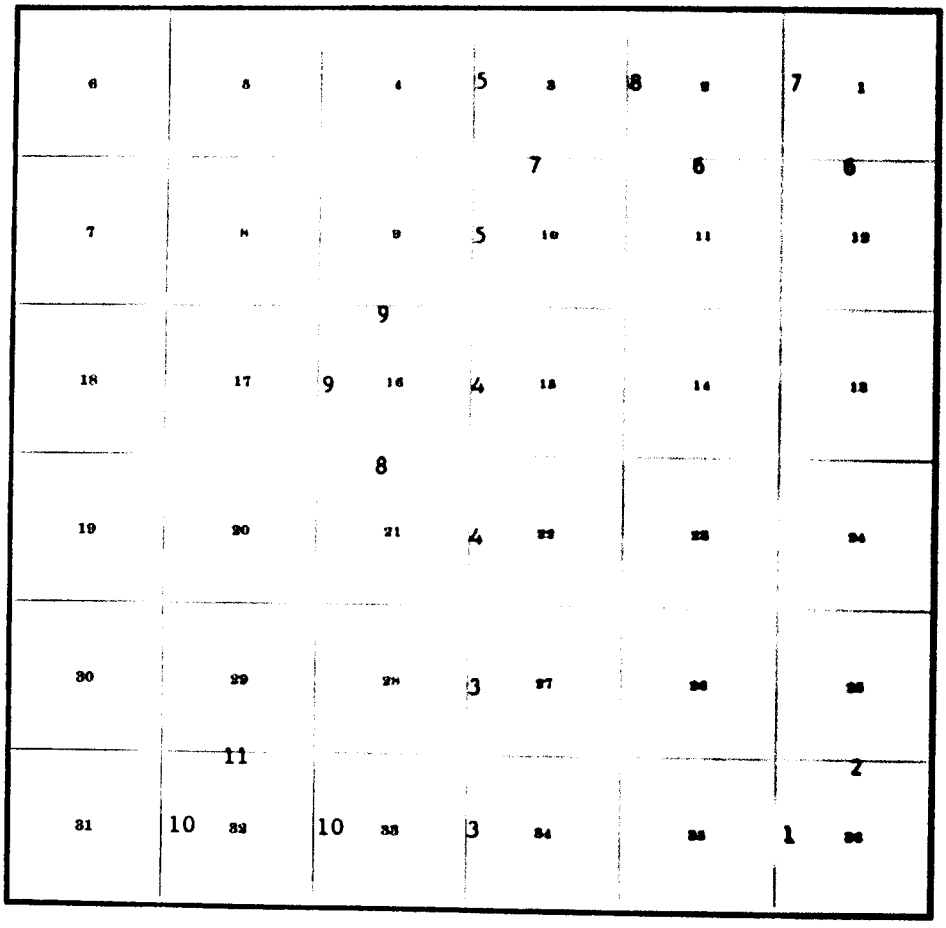
Survey commenced May 17 *, 1960*

Survey completed May 20 *, 1960*

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

INDEX DIAGRAM

Township 13 South , *Range* 13 West



10—68770-1

Chains

The south, east, west and north boundaries were surveyed by Ferdinand Dickert in 1882. The south and east boundaries were independently resurveyed by Ralph Gentry and Wilson McConkie in 1937. The west and north boundaries were independently resurveyed by Robert C. Yundt and Elliot Bird in 1948.

The following field notes are those of a survey of a portion of the subdivision of T. 13 S., R. 13 W. 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 W. and L. E. Gurley solar transit No. 541331, 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 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.

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° 38' 22.15" N. and longitude 113° 14' 51.8" W., as adjusted from traverses to U. S. G. S. triangulation stations "Fish" and "Detroit".

The magnetic declination was read at a number of stations throughout the township and the average of these readings was found to be 16° 30' East.

Survey of a Portion of the Subdivision of T. 13 S., R. 13 W.

Beginning the subdivisional survey at the cor. of secs. 1, 2, 35 and 36, on the S. bdy. of the Tp., which is monumented by an iron post, 2 ins. diam., set, mkd. and witnessed as described in the official record of the independent resurvey of 1948.

N. 0° 01' W., bet. secs. 35 and 36.

Over nearly level land of Fish Springs Flats.

.90 Wash, 30 lks. wide, 3 ft. deep, drains NW.

Survey of a Portion of the Subdivision of T. 13 S., R. 13 W.

Chains	
36.80	Wash, 50 lks. wide, 6 ft. deep, drains W.; cont. over gently rolling land.
40.00	Point for the ¼ sec. cor. of secs. 35 and 36.
	Set an iron post, 30 ins. long, 2½ ins. diam., 24 ins. in the ground, with brass cap mkd.
	T13S R13W ¼ S35 | S36 1960
	Raise a small mound of stone W. of iron post.
	Asc. 20 ft. over gently rolling land draining SW.
80.00	Point for the cor. of secs. 25, 26, 35 and 36.
	Set an iron post, 30 ins. long, 2½ ins. diam., 24 ins. in the ground, with brass cap mkd.
	T13S R13W S26 | S25 S35 | S36 1960
	Raise a small mound of stone W. of iron post.
	Land, gently rolling. Soil, clay. Timber, none.

	From the cor. of secs. 25, 30, 31 and 36, on the E. bdy. of the Tp., which is monumented by an iron post, 2 ins. diam., set, mkd. and witnessed as described in the official record of the independent re-survey of 1948.
	West, bet. secs. 25 and 36.
	Over gently rolling land; desc. 20 ft. along gentle S. slope.
39.99	Point for the ¼ sec. cor. of secs. 25 and 36.
	Set an iron post, 30 ins. long, 2½ ins. diam., 24 ins. in the ground, with brass cap mkd.
	T13S R13W ¼ S25 S36 1960
	Raise a small mound of stone N. of iron post.
	Cont. over gently rolling land draining SW.; desc. 30 ft.
79.98	The cor. of secs. 25, 26, 35 and 36.
	Land, gently rolling. Soil, rocky clay. Timber, none.

Chains	
	From the cor. of secs. 3, 4, 33 and 34, on the S. bdy. of the Tp., which is monumented by an iron post, 2 ins. diam., set, mkd. and witnessed as described in the official record of the independent resurvey of 1948. N. 0° 02' W., bet. secs. 33 and 34.
	Over nearly level land of Fish Springs Flats.
40.00	Point for the ¼ sec. cor. of secs. 33 and 34. Set an iron post, 30 ins. long, 2½ ins. diam., 24 ins. in the ground, with brass cap mkd. T13S R13W ¼ S33 | S34 1960 Raise a small mound of stone W. of cor. Cont. over nearly level land.
80.00	Point for the cor. of secs. 27, 28, 33 and 34. Set an iron post, 30 ins. long, 2½ ins. diam., 24 ins. in the ground, with brass cap mkd. T13S R13W S28 | S27 S33 | S34 1960 Raise a small mound of stone W. of iron post. Land, nearly level bottom of Fish Springs Flat. Soil, sandy clay. Timber, none.
	N. 0° 02' W., bet. secs. 27 and 28. Over nearly level land.
40.00	Point for the ¼ sec. cor. of secs. 27 and 28. Set an iron post, 30 ins. long, 2½ ins. diam., 24 ins. in the ground, with brass cap mkd. T13S R13W ¼ S28 | S27 1960 Raise a small mound of stone, W. of cor. Cont. over nearly level land of Fish Springs Flat.
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 ground, with brass cap mkd. T13S R13W S21 | S22 S28 | S27 1960

Survey of a Portion of the Subdivision of T. 13 S., R. 13 W.

Chains	
	Raise a small mound of stone W. of iron post. Land, nearly level Fish Springs Flat. Soil, sandy clay. Timber, none.
	N. 0° 02' W., bet. secs. 21 and 22. Over nearly level land.
40.00	Point for the ¼ sec. cor. of secs. 21 and 22. Set an iron post, 30 ins. long, 2½ ins. diam., 24 ins. in the ground, with brass cap mkd. T13S R13W ¼ S21 | S22 1960 Raise a small mound of stone W. of cor. Cont. over nearly level land.
55.30	Wash, 20 lks. wide, 4 ft. deep, drains NW.
80.00	Point for the cor. of secs. 15, 16, 21 and 22. Set an iron post, 30 ins. long, 2½ ins. diam., 24 ins. in the ground, with brass cap mkd. T13S R13W S16 | S15 S21 | S22 1960 Raise a mound of stone W. of iron post. Land, nearly level Fish Springs Flat. Soil, sandy clay. Timber, none.
	N. 0° 02' W., bet. secs. 15 and 16. Over nearly level land of Fish Springs Flat.
40.00	Point for the ¼ sec. cor. of secs. 15 and 16. Set an iron post, 30 ins. long, 2½ ins. diam., 24 ins. in the ground, with brass cap mkd. T13S R13W ¼ S16 | S15 1960 Raise a small mound of stone W. of iron post. Cont. over nearly level land.

Chains	
80.00	Point for the cor. of secs. 9, 10, 15 and 16. Set an iron post, 30 ins. long, 2½ ins. diam., 24 ins. in the ground, with brass cap mkd. T13S R13W S 9 | S10 S16 | S15 1960 Raise a small mound of stone W. of cor. Land, nearly level bottom of Fish Springs Flat. Soil, sandy clay. Timber, none.
	N. 0° 02' W., bet. secs. 9 and 10. Over nearly level bottom of Fish Springs Flat,
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. T13S R13W ¼ S 9 | S10 1960 Raise a small mound of stone W. of iron post. Cont. over nearly level land.
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, with brass cap mkd. T13S R13W S 4 | S 3 S 9 | S10 1960 Raise a small mound of stone W. of iron post. Land, nearly level bottom of Fish Springs Flat. Soil, clay. Timber, none.
	N. 0° 15' W., bet. secs. 3 and 4. Over nearly level bottom of Fish Springs Flat.
40.00	Point for the ¼ sec. cor. of secs. 3 and 4. Set an iron post, 30 ins. long, 2½ ins. diam., 24 ins. in the ground, with brass cap mkd. T13S R13W ¼ S4 | S3 1960

Survey of a Portion of the Subdivision of T. 13 S., R. 13 W.

Chains	
	Raise a small mound of stone W. of cor.
	Cont. along the nearly level bottom of Fish Springs Flat.
79.99	Intersect the N. bdy. of the Tp., at the cor. of secs. 3, 4, 33 and 34 which is monumented by an iron post, 2 ins. diam., set, mkd. and witnessed as described in the official record of the independent resurvey of 1948.
	Land, nearly level bottom of Fish Springs Flat. Soil, clay and sandy clay. Timber, none.
	From the cor. of secs. 1, 6, 7 and 12, on the E. bdy. of the Tp., which is monumented by an iron post, set, mkd. and witnessed as described in the official record of the independent resurvey of 1948.
	S. 89° 59' W., bet. secs. 1 and 12, on a line connecting with the cor. of secs. 3, 4, 9 and 10.
	Over nearly level land of Fish Springs Flat.
39.98	Point for the ¼ sec. cor. of secs. 1 and 12.
	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. T13S R13W ¼ S 1° / S12 1960
	Cont. over nearly level land of Fish Springs Flat.
79.96	Point for the cor. of secs. 1, 2, 11 and 12.
	Set an iron post, 30 ins. long, 2½ ins. diam., 24 ins. in the ground, with brass cap mkd. T13S R13W S2 | S1 S11 | S12 1960
	Raise a small mound of stone W. of cor.
	Land, nearly level land of Fish Springs Flat. Soil, clay and sandy clay. Timber, none.
	S. 89° 59' W., bet. secs. 2 and 11, on a line connecting with the cor. of secs. 3, 4, 9 and 10.
	Over nearly level land of Fish Springs Flat.
39.98	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. T13S R13W ¼ S 2 / S11 1960

Survey of a Portion of the Subdivision of T. 13 S., R. 13 W.

Chains	
	Raise a small mound of stone N. of cor.
	Cont. over nearly level land of Fish Springs Flat.
79.96	Point for the cor. of secs. 2, 3, 10 and 11.
	Set an iron post, 30 ins. long, 2½ ins. diam., 24 ins. in the ground, with brass cap mkd.
	T13S R13W S 3 | S 2 S10 | S11 1960
	Raise a mound of stone W. of cor.
	Land, nearly level land of Fish Springs Flat. Soil, clay and sandy clay. Timber, none.
	S. 89° 59' W., bet. secs. 3 and 10.
	Over nearly level land of Fish Springs Flat.
39.98	Point for the ¼ sec. cor. of secs. 3 and 10.
	Set an iron post, 30 ins. long, 2½ ins. diam., 24 ins. in the ground, with brass cap mkd.
	T13S R13W ¼ S 3 S10 1960
	Raise a small mound of stone N. of cor.
	Cont. over nearly level land of Fish Springs Flat.
79.96	The cor. of secs. 3, 4, 9 and 10.
	Land, nearly level. Soil, clay and sandy clay. Timber, none.
	From the cor. of secs. 1, 2, 11 and 12.
	N. 0° 07' W., bet. secs. 1 and 2.
	Over nearly level land of Fish Springs Flat.
40.00	Point for the ¼ sec. cor. of secs. 1 and 2.
	Set an iron post, 30 ins. long, 2½ ins. diam., 24 ins. in the ground, with brass cap mkd.
	T13S R13W ¼ S2 | S1 1960
	Raise a small mound of stone W. of cor.
	Cont. over nearly level land.

Survey of a Portion of the Subdivision of T. 13 S., R. 13 W.

Chains	
79.95	Intersect the N. bdy. of the Tp. at the cor. of secs. 1, 2, 35 and 36, which is monumented by an iron post, 2 ins. diam., set, mkd. and witnessed as described in the official record, of the independent resurvey of 1948. Land, nearly level. Soil, clay and sandy clay. Timber, none.
	From the cor. of secs. 2, 3, 10 and 11. N. 0° 12' W., bet. secs. 2 and 3. Over nearly level land of Fish Springs Flat.
40.00	Point for the ¼ sec. cor. of secs. 2 and 3. Set an iron post, 30 ins. long, 2½ ins. diam., 24 ins. in the ground, with brass cap mkd. T13S R13W ¼ S3 | S2 1960 Raise a small mound of stone W. of cor. Cont. over nearly level land.
79.90	Intersect the N. bdy. of the Tp. at the cor. of secs. 2, 3, 34 and 35, which is monumented by an iron post, 2 ins. diam., set, mkd. and witnessed as described in the official record of the independent resurvey of 1948. Land, nearly level. Soil, sandy clay and clay. Timber, none.
	From the cor. of secs. 15, 16, 21 and 22. N. 89° 59' W., bet. secs. 16 and 21. Over nearly level land of Fish Springs Flat.
10.50	Wash, 20 lks. wide, 3 ft. deep, drains NE.
40.00	Point for the ¼ sec. cor. of secs. 16 and 21. Set an iron post, 30 ins. long, 2½ ins. diam., 24 ins. in the ground, with brass cap mkd. T13S R13W ¼ S16/S21 1960 Raise a small mound of stone N. of cor. Cont. over nearly level land.
80.00	Point for the cor. of secs. 16, 17, 20 and 21.

U. S. GOVERNMENT PRINTING OFFICE 16—[illegible]-2 1-1

Chains	
	Set an iron post, 30 ins. long, 2½ ins. diam., 24 ins. in the ground, with brass cap mkd. T13S R13W S17 | S16 S20 | S21 1960 Raise a small mound of stone W. of cor. Land, nearly level land of Fish Springs Flat. Soil, sandy and clay. Timber, none.
	N. 0° 03' W., bet. secs. 16 and 17. Over nearly level land of Fish Springs Flat.
40.00	Point for the ¼ sec. cor. of secs. 16 and 17. Set an iron post, 30 ins. long, 2½ ins. diam., 24 ins. in the ground, with brass cap mkd. T13S R13W ¼ S17 | S16 1960 Raise a small mound of stone W. of cor. Cont. over nearly level land.
80.00	Point for the cor. of secs. 8, 9, 16 and 17. Set an iron post, 30 ins. long, 2½ ins. diam., 24 ins. in the ground, with brass cap mkd. T13S R13W S 8 | S 9 S17 | S16 1960 Raise a small mound of stone W. of cor. Land, nearly level land of Fish Springs Flat. Soil, sandy clay and clay. Timber, none.
	From the cor. of secs. 9, 10, 15 and 16. N. 89° 58' W., bet. secs. 9 and 16. Over nearly level land of Fish Springs Flat.
39.99	Point for the ¼ sec. cor. of secs. 9 and 16. Set an iron post, 30 ins. long, 2½ ins. diam., 24 ins. in the ground, with brass cap mkd. T13S R13W ¼ S 9 S16 1960

Chains	
	Raise a small mound of stone N. of cor.
79.98	The cor. of secs. 8, 9, 16 and 17.
	Land, nearly level land of Fish Springs Flat. Soil, sandy clay and clay. Timber, none.

From the cor. of secs. 4, 5, 32 and 33, on the S. bdy. of the Tp., which is monumented by an iron post, 2 ins. diam., set, mkd. and witnessed as described in the official record of the independent resurvey of 1948.

N. 0° 03' W., bet. secs. 32 and 33.

Over nearly level land of Fish Springs Flat.

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 ground, with brass cap mkd.

T13S R13W
¼
S32 | S33
1960

Raise a mound of stone W. of cor.

Cont. over nearly level land.

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.

T13S R13W
S29 | S28
S32 | S33
1960

Raise a small mound of stone W. of cor.

Land, nearly level land of Fish Springs Flat.
Soil, sandy clay and clay.
Timber, none.

From the cor. of secs. 5, 6, 31 and 32, on the S. bdy. of the Tp., which is monumented by an iron post, 2 ins. diam., set, mkd. and witnessed as described in the official record of the independent resurvey of 1948.

N. 0° 03' W., bet. secs. 31 and 32.

Over nearly level land of Fish Springs Flat.

40.00 Point for the ¼ sec. cor. of secs. 31 and 32.

Set an iron post, 30 ins. long, 2½ ins. diam., 24 ins. in the ground, with brass cap mkd.

T13S R13W
¼
S31 | S32
1960

Chains	
	Raise a small mound of stone W. of cor.
	Cont. over nearly level land.
80.00	Point for the cor. of secs. 29, 30, 31 and 32.
	Set an iron post, 30 ins. long, 2½ ins. diam., 24 ins. in the ground, with brass cap mkd.
	T13S R13W S30 | S29 S31 | S32 1960
	Raise a small mound of stone W. of cor.
	Land, nearly level. Soil, sandy clay and clay. Timber, none.
	From the cor. of secs. 28, 29, 32 and 33.
	N. 89° 59' W., bet. secs. 29 and 32.
	Over nearly level land of Fish Springs Flat.
40.00	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.
	T13S R13W ¼ S29 S32 1960
	Raise a small mound of stone N. of cor.
	Cont. over nearly level land.
80.00	The cor. of secs. 29, 30, 31 and 32.
	Land, nearly level land of Fish Springs Flat. Soil, sandy clay and clay. Timber, none.

General Description

T. 13 S., R. 13 W. is located on the south end of Fish Springs Flats and consists entirely of level to rolling bottom land.

The Sand Pass Road passes through the extreme southeast corner of section 36. The entire township can be traveled by 2 or 4 wheel drive vehicles in dry weather.

There is no timber in the township. The undergrowth consists of shadscale, blackbrush, sage, greasewood and scattered bunch grass.

The soil is mainly heavy clay with some alkali content on the lowest bottom land. The elevation varies from about 4375 to 4700 feet above sea level. No permanent water was noted during the survey.

Chains	

4-680
(Feb., 1950)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FIELD ASSISTANTS

NAMES	CAPACITY
Donald A. Cannon	Crew Chief (Cornerman)
James R. Munson	Transitman
Jeddie J. Judd	Notekeeper
John D. Carter	Front Chainman
Dennis D. Bland	Flagman

16—53565-2

CERTIFICATE OF CADASTRAL ENGINEER

XX We, Craig P. Sylvester and Donald A. Cannon, HEREBY CERTIFY upon honor that, in pursuance of special instructions bearing date of the 25th day of August, 1936, and supplemental special instructions dated May 1, 1959 we have surveyed a portion of the subdivision of T. 13 S., R. 13 W.

of the Salt Lake Meridian, in the State of Utah, which are represented in the foregoing field notes as having been executed by us and under our 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 1, 1961

Craig P. Sylvester, Cadastral Surveyor

Donald A. Cannon, Cadastral Surveyor

CERTIFICATE OF APPROVAL

BUREAU OF LAND MANAGEMENT,

Washington, D. C., APR 17 1962, *19*

The foregoing field notes of the survey of a portion of the subdivision of T. 13 S., R. 13 W., Salt Lake Meridian, Utah

executed by Craig P. Sylvester and Donald A. Cannon, Cadastral Surveyors

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

~~Cadastral Engineering Staff Officer.~~

Chief, Division of Engineering

I CERTIFY that the [illegible] transcript of the field notes of the above-described surveys in T. 13 S., R. 13 W., SLM, Utah, is a true copy of the [illegible] notes.

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

4—679
(September 1948)

51

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

ORIGINAL

FIELD NOTES

OF AN INDEPENDENT RESURVEY

OF THE EAST BOUNDARY

AND A SURVEY

OF A PORTION OF THE SUBDIVISION

OF TOWNSHIP 12 SOUTH, RANGE 15 WEST

Of the SALT LAKE *Meridian,*

n the State of UTAH

EXECUTED BY

Craig P. Sylvester, Cadastral Surveyor (Chief of Party)

Donald A. Cannon, Cadastral Surveyor

Jnder special instructions dated August 25, *19* 36 *, which provided*
Supplemental Special Instructions May 11, 1959
or the surveys included under Group No. 280 *, approved* May 12, 1959

nd assignment instructions dated April 28, *19*60

Survey commenced June 9 *19*60

Survey completed June 28 *19*60

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

INDEX DIAGRAM

Township 12 SOUTH, *Range* 15 WEST

6	5	4 11	3 13	2 14	1 6
7	8	9 10	10	13 11	12 5
18	17 16	16 16 10	15	14	13 4
19	20	15 21 9	22	23	24 3
30	29	28 8	27	26	25 2
31 18	18 32 17	33 8	34	35 7	7 36 2

16—56770-1

Township 12 South, Range 15 West

Chains

A portion of the east boundary was surveyed by Joseph Gorlinski in 1880, and a portion surveyed by Ferdinand Dickert in 1882 and independently resurveyed by Elliot Bird in 1948. A portion of the north boundary was surveyed by Ferdinand Dickert in 1882 and independently resurveyed by Elliot Bird in 1948. A portion of the north boundary was surveyed concurrently and shows in the field notes of T. 11 S., R. 15 W. The west boundary was surveyed concurrently and shows in the field notes of T. 12 S., R. 16 W. The south boundary was surveyed concurrently and shows in the field notes of T. 13 S., R. 15 W.

The following field notes are those of an independent resurvey of a portion of the east boundary, a retracement of a portion of the east boundary and a survey of a portion of the subdivisional lines deemed sufficient in extent to facilitate the development of the natural resources and mark the boundaries of those sections normally considered state school sections.

The survey was executed with W. and L. E. Gurley solar transits Nos. 541331 and 541325, 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 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° 43' 35.20" N. and longitude 113° 28' 18.39" W. as adjusted from traverses to U. S. G. S. triangulation station "Fish."

The magnetic declination was read at a number of stations throughout the township and the average of these readings was found to be 16° 45' East.

Inde dent Res of the E. of T. 12 S. R. 15 W.

Chains	
	Independent Resurvey superseding the survey executed by Joseph Gorlinski in 1880.
	From the cor. of Tps. 12 and 13 S., Rs. 14 and 15 W., monumented by an iron post, 3 ins. diam., set, mkd. and witnessed as described in the official record.
	North, bet. secs. 31 and 36.
	Over rolling desert benchland, on W. slope of Fish Range, 65 ft. along rolling W. slope.
22.50	Wash, 30 lks. wide, 2 ft. deep, drains W.; asc. 10 ft. along W. slope.
28.30	Wash, 2 ft. deep, 10 lks. wide, drains W.; asc. 30 ft. along W. slope.
40.00	Point for the ¼ sec. cor. of secs. 31 and 36.
	Set an iron post, 30 ins. long, 2½ ins. diam., 12 ins. in the ground to bedrock, in a mound of stone, 3 ft. base to top, with brass cap mkd.
	T12S R15W R14W ¼ S36 | S31 1960
	No evidence of the original cor.
	Asc. 20 ft. along W. slope.
46.30	Wash, 3 ft. deep, 10 lks. wide, drains W.; desc. 15 ft. along W. slope.
61.50	Wash, 3 ft. deep, 70 lks. wide, drains W.; asc. 30 ft. along rolling W. slope; enter low hills.
80.00	Point for the cor. of secs. 25, 30, 31 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.
	T12S R15W R14W S25 | S30 S36 | S31 1960
	Cor. falls on small spur sloping W.; no evidence of original cor.
	Land, rolling bench. Soil, gravelly and rocky. Timber, none. Undergrowth, shadscale.
	North, bet. secs. 25 and 30.
	Over mountainous desert land on W. slopes of Fish Range; desc. 100 ft. over N. slope.
5.50	Wash, 2 ft. deep, 30 lks. wide, drains W.; asc. 15 ft. along W. slope.

Chains	
12.30	Small wash, drains W.; asc. 140 ft. over S. slope.
32.00	Spur, slopes SW.; asc. 95 ft. over SW. slope.
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 to bedrock, in a mound of stone, 3½ ft. base to top, with brass cap mkd.
	T12S R15W R14W ¼ S25 | S30 1960
	No evidence of the original cor.
	Asc. 75 ft. over SW. slope.
47.80	Spur, slopes W.; desc. 305 ft. over N. slope.
58.70	Wash, 2 ft. deep, 30 lks. wide, drains W.; asc. 110 ft. over S. slope.
64.20	Small spur, slopes W.; asc. 120 ft. over SW. slope.
77.30	Spur, slopes W.; desc. 70 ft. over N. slope.
80.00	Point for the cor. of secs. 19, 24, 25 and 30.
	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.
	T12S R15W R14W S24 | S19 S25 | S30 1960
	Cor. falls near bottom of small draw draining W.; no evidence of original cor.
	Land, broken mountains. Soil, gravelly with exposed ledges. Timber, very scattered scrub juniper. Undergrowth, shadscale and black brush.
	North, bet. secs. 19 and 24.
	Over mountainous desert land; asc. 60 ft. over S. slope.
6.00	Spur, slopes W.; desc. 115 ft. over N. slope.
10.90	Wash, 2 ft. deep, 20 lks. wide, drains W.; asc. 120 ft. over S. slope.
20.30	Spur, slopes W.; desc. 65 ft. over N. slope.
23.00	Small wash, drains W.; asc. 80 ft. over S. slope.
30.60	Spur, slopes W.; desc. 55 ft. over N. slope.
40.00	Point for the ¼ sec. cor. of secs. 19 and 24.
	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.

Independent Resurvey of the E. bdy. of T. 12 S., R. 15 W.

Chains	
	T12S R15W R14W ¼ S24 | S19 1960
	No evidence of original cor.; desc. 95 ft. over N. slope.
48.90	Wash, 2 ft. deep, 20 lks. wide, drains W.; asc. 80 ft. over S. slope.
68.80	Spur, slopes W.; desc. 180 ft. over N. slope.
80.00	Point for the cor. of secs. 13, 18, 19 and 24.
	Set an iron post, 30 ins. long, 2½ ins. diam., 12 ins. in the ground to bedrock, in a mound of stone, 3 ft. base to top, with brass cap mkd.
	T12S R15W R14W S13 | S18 S24 | S19 1960
	No evidence of original cor.
	Land, broken mountain. Soil, gravelly with exposed ledges. Timber, scattered scrub juniper. Undergrowth, shadscale and black brush.
	North, bet. secs. 13 and 18.
	Over mountainous desert land on W. slopes of Fish Range; desc. 70 ft. over N. slope.
5.70	Wash, 3 ft. deep, 20 lks. wide, drains W.; asc. 65 ft. over S. slope.
19.20	Spur, slopes N. 70° W.; desc. 100 ft. over N. slope.
25.30	Wash, 4 ft. deep, 50 lks. wide, drains W.; asc. 80 ft. over S. slope.
30.50	Spur, slopes W.; desc. 55 ft. over N. slope.
40.00	Point for the ¼ sec. cor. of secs. 13 and 18.
	Set an iron post, 30 ins. long, 2½ ins. diam., 5 ins. in the ground to bedrock, in a mound of stone, 4 ft. base to top, with brass cap mkd.
	T12S R15W R14W ¼ S13 | S18 1960
	No evidence of original ¼ sec. cor.
	Desc. 115 ft. over N. slope.
48.40	Wash, 3 ft. deep, 50 lks. wide, drains N. 60° W.; asc. 65 ft. along W. slope.
61.10	Spur, slopes W.; desc. 20 ft. along W. slope over series of small spurs and washes draining W.

Chains	
71.00	Wash, 3 ft. deep, 40 lks. wide, drains W.; asc. 10 ft. along W. slope.
78.10	Small spur, slopes N. 50° W.; desc. 40 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., 8 ins. in the ground to bedrock, in a mound of stone, 4 ft. base to top, with brass cap mkd.
	T12S R15W R14W S12 | S 7 S13 | S18 1960
	No evidence of original cor.
	Land, broken mountains. Soil, gravel and rocky. Timber, scattered juniper. Undergrowth, shadscale.
	North, bet. secs. 7 and 12.
	Over broken mountainous desert land on W. slopes of Fish Range; asc. 20 ft. along W. slope, over series of small spurs and washes draining W.
19.20	Top of rocky knoll, about 2 chs. diam.; desc. 60 ft. along irregular W. slope.
34.30	Wash, 2 ft. deep, 20 lks. wide, drains W.; asc. 20 ft. over S. slope.
40.00	Point for the ¼ sec. cor. of secs. 7 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.
	T12S R15W R14W ¼ S12 | S 7 1960
	No evidence of original ¼ sec. cor.
	Asc. 20 ft. over S. slope.
45.20	Spur, slopes S. 75° W.; desc. 80 ft. over N. slope.
55.30	Wash, 3 ft. deep, 50 lks. wide, drains W.; asc. 65 ft. over S. slope.
60.70	Spur, slopes NW.; desc. 90 ft. over N. slope.
74.30	Wash, 3 ft. deep, 50 lks. wide, drains W.; asc. 50 ft. over S. slope.
79.00	Spur, slopes W.; desc. 20 ft. over N. slope.
80.00	Point for the cor. of secs. 1, 6, 7 and 12.
	Set an iron post, 30 ins. long, 2½ ins. diam., 16 ins. in the ground to bedrock, in a mound of stone, 4 ft. base to top, with brass cap mkd.

Chains	
	T12S R15W R14W S1 | S6 S12 | S 7 1960 No evidence of the original cor. Land, broken. Soil, gravel with exposed ledges. Timber, scattered juniper. Undergrowth, shadscale.
	North, bet. secs. 1 and 6. Over mountainous desert land on W. slopes of Fish Range; desc. 50 ft. over N. slope.
7.00	Wash, 2 ft. deep, 10 lks. wide, drains W.; asc. 90 ft. over S. slope.
21.00	Spur, slopes W.; desc. 65 ft. over N. slope.
22.80	Wash, 2 ft. deep, 10 lks. wide, drains W.; asc. 130 ft. over S. slope.
37.50	Spur, slopes W.; desc. 45 ft. over N. slope.
40.00	Point for the ¼ sec. cor. of secs. 1 and 6. 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. T12S R15W R14W ¼ S1 | S6 1960 No evidence of original cor. Desc. 60 ft. over N. slope.
44.50	Wash, 2 ft. deep, 30 lks. wide, drains W.; asc. 30 ft. over S. slope.
50.00	Spur, slopes W.; desc. 150 ft. over N. slope.
54.50	Wash, 2 ft. deep, 20 lks. wide, drains W.; asc. 100 ft. over S. slope.
63.89	Intersect the S. bdy. of T. 11 S., R. 14 W. Point for the closing cor. of secs. 1 and 6. 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. T11S R14W S31 S1 | S6 C C T12S R15W R14W 1960 From this closing cor. the S¼ sec. cor. of sec. 31, T. 11 S., R. 14 W. bears West 6.83 chs. dist., monumented by an iron post, 1 in. diam., set, mkd. and witnessed as described in the official record.

Chains	
	Land, broken. Soil, gravel with exposed ledges. Timber, scattered juniper. Undergrowth, shadscale.
	Survey of a Portion of the Subdivision of T. 12 S., R. 15 W.
	From the cor. of secs. 1, 2, 35 and 36, on the S. bdy. of the Tp., monumented by an iron post, 2½ ins. diam., set, mkd. and witnessed as described in the field notes of the concurrent survey of T. 13 S., R. 15 W.
	N. 0° 01' W., bet. secs. 35 and 36.
	Over rolling desert land, along a gentle slope.
18.00	Wash, 2 ft. deep, 10 lks. wide, drains W.
40.00	Point for the ¼ sec. cor. of secs. 35 and 36.
	Set an iron post, 30 ins. long, 2½ ins. diam., 22 ins. in the ground with brass cap mkd. T12S R15W ¼ S35 | S36 1960
	Raise a mound of stone, 2½ ft. base, 2 ft. high, W. of cor.
	Cont. along gentle W. slope.
73.90	Wash, 4 ft. deep, 10 lks. wide, drains W.
80.00	Point for the cor. of secs. 25, 26, 35 and 36.
	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. T12S R15W S26 | S25 S35 | S36 1960
	Land, rolling W. slope. Soil, clay with gravel and rocky spots. Timber, none. Undergrowth, shadscale.
	From the cor. of secs. 25, 30, 31 and 36, on the E. bdy. of the Tp.
	S. 89° 54' W., bet. secs. 25 and 36.
	Over hilly desert land on the W. slope of Fish Range; desc. 120 ft. over W. slope of spur.
7.50	Base of spur, leave hills; desc. 70 ft. over W. slope.
23.00	Wash, 2 ft. deep, 10 lks. wide, drains N. 70° W.; desc. 85 ft. over W. slope.
39.93	Point for the ¼ sec. cor. of secs. 25 and 36.

Chains	
	Set an iron post, 30 ins. long, 2½ ins. diam., 16 ins. in the ground, in a collar of stone, with brass cap mkd. T12S R15W ¼ S25 / S36 1960
	Desc. 200 ft. over W. slope.
79.86	The cor. of secs. 25, 26, 35 and 36. Land, hilly to slightly broken W. slope. Soil, gravelly and rocky. Timber, none. Undergrowth, shadscale.
	From the cor. of secs. 3, 4, 33 and 34, on the S. bdy. of the Tp., monumented by an iron post, 2½ ins. diam., set, mkd. and witnessed as described in the field notes of the concurrent survey of T. 13 S., R. 15 W. N. 0° 02' W., bet. secs. 33 and 34. Over rolling desert land draining NW.
39.40	Wash, 2 ft. deep, 30 lks. wide, drains NW.
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, in a collar of stone, with brass cap mkd. T12S R15W ¼ S33 | S34 1960
	Cont. over gentle NW. slope.
55.10	Top small terrace, bears NE. and SW.; desc. 20 ft. over NW. slope of terrace.
57.70	Base same terrace, bears NE. and SW.; thence over nearly level desert land.
68.20	Trail road, bears NW. and SE.
80.00	Point for the cor. of secs. 27, 28, 33 and 34. Set an iron post, 30 ins. long, 2½ ins. diam., 24 ins. in the ground, with brass cap mkd. T12S R15W S28 | S27 S33 | S34 1960
	Raise a mound of stone, 2½ ft. base, 2 ft. high, W. of cor. Land, rolling. Soil, sandy clay, some gravel spots. Timber, none. Undergrowth, shadscale.
	N. 0° 02' W., bet. secs. 27 and 28.

Chains	
	Over rolling desert land draining NW.
10.40	Center of small stock pond, 2 chs. diam.
40.00	Point for the ¼ sec. cor. of secs. 27 and 28.
	Set an iron post, 30 ins. long, 2½ ins. diam., 24 ins. in the ground, with brass cap mkd. T12S R15W ¼ S28 | S27 1960
	Raise a mound of stone, 3 ft. base, 2 ft. high, W. of cor.
43.40	Wash, 2 ft. deep, 30 lks. wide, drains NW.
69.60	Wash, 2 ft. deep, 20 lks. wide, drains W.
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 ground, with brass cap mkd. T12S R15W S21 | S22 S28 | S27 1960
	Raise a mound of stone, 2½ ft. base, 2 ft. high, W. of cor.
	Land, rolling. Soil, sandy clay. Timber, none. Undergrowth, shadscale.
	N. 0° 02' W., bet. secs. 21 and 22.
	Over gently rolling desert land draining W.
17.20	Wash, 2 ft. deep, 40 lks. wide, drains W.; desc. gentle W. slope.
40.00	Point for the ¼ sec. cor. of secs. 21 and 22.
	Set an iron post, 30 ins. long, 2½ ins. diam., 24 ins. in the ground, with brass cap mkd. T12S R15W ¼ S21 | S22 1960
	Raise a mound of stone, 3 ft. base, 2 ft. high, W. of cor.
	Asc. 10 ft. along gentle W. slope.
67.20	Wash, 2 ft. deep, 40 lks. wide, drains W.
80.00	Point for the cor. of secs. 15, 16, 21 and 22.
	Set an iron post, 30 ins. long, 2½ ins. diam., 24 ins. in the ground, with brass cap mkd. T12S R15W S16 | S15 S21 | S22 1960

Survey of a Portion of the Subdivision of T. 12 S., R. 15 W.

Chains	
	Raise a mound of stone, 3 ft. base, 2 ft. high, W. of cor.
	Land, rolling. Soil, sandy clay. Timber, none. Undergrowth, shadscale.
	N. 0° 02' W., bet. secs. 15 and 16.
	Over gently rolling desert land draining W.
7.10	Wash, 2 ft. deep, 30 lks. wide, drains W.
40.00	Point for the ¼ sec. cor. of secs. 15 and 16.
	Set an iron post, 30 ins. long, 2½ ins. diam., 24 ins. in the ground, with brass cap mkd. T12S R15W ¼ S16 | S15 1960
	Raise a mound of stone, 2½ ft. base, 2 ft. high, W. of cor.
	Cont. along gentle W. slope.
51.20	Wash, 2 ft. deep, 40 lks. wide, drains N. 70° W.; asc. 10 ft. along gentle W. slope.
61.00	Top of small rise, bears E. and W.; desc. gentle NW. slope.
61.00	Trail road, bears NW. and SE.; desc. 25 ft. over gentle NW. slope.
80.00	Point for the cor. of secs. 9, 10, 15 and 16.
	Set an iron post, 30 ins. long, 2½ ins. diam., 24 ins. in the ground, with brass cap mkd. T12S R15W S 9 | S10 S16 | S15 1960
	Raise a mound of stone, 3 ft. base, 2 ft. high, W. of cor.
	Land, rolling. Soil, sandy clay. Timber, none. Undergrowth, shadscale.
	N. 0° 02' W., bet. secs. 9 and 10.
	Over rolling desert land; asc. 15 ft. along gentle W. slope.
31.70	Top of rise, bears E. and W.; desc. 25 ft. along W. slope.
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. T12S R15W ¼ S 9 | S10 1960

Chains	
	Raise a mound of stone, 3 ft. base, 2 ft. high, W. of cor.
	Desc. 10 ft. along gentle 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., 24 ins. in the ground, with brass cap mkd. T12S R15W S4 | S3 S 9 | S10 1960
	Raise a mound of stone, 2½ ft. base, 2 ft. high, W. of cor.
	Land, rolling. Soil, sandy clay. Timber, none. Undergrowth, shadscale.
	N. 0° 02' W., bet. secs. 3 and 4.
	Over nearly level desert land, draining W.
40.00	Point for the ¼ sec. cor. of secs. 3 and 4.
	Set an iron post, 30 ins. long, 2½ ins. diam., 24 ins. in the ground, with brass cap mkd. T12S R15W ¼ S4 | S3 1960
	Raise a mound of stone, 3 ft. base, 2 ft. high, W. of cor.
	Cont. along gentle W. slope.
57.30	Wash, 4 ft. deep, 40 lks. wide, drains S. 60° W.; asc. 55 ft. along E. slope of small spur which slopes S.
80.00	Point for the 1/16 sec. cor. of secs. 3 and 4.
	Set an iron post, 30 ins. long, 2½ ins. diam., 24 ins. in the ground, with brass cap mkd. T12S R15W 1/16 S4 | S3 80 1960
	Raise a mound of stone, 3 ft. base, 2 ft. high, W. of cor.
	Asc. 25 ft. along E. slope.
87.05	Intersect the S. bdy. of T. 11 S., R. 15 W.
	Point for the closing cor. of secs. 3 and 4.
	Set an iron post, 30 ins. long, 2½ ins. diam., 20 ins. in the ground, in a collar of stone, with brass cap mkd. T11S R15W S34 S4 | S3 C C T12S R15W 1960

Survey of Portion of the Subdivision of T. 12 S., R. 15 W.

Chains

From this closing cor. the S¼ sec. cor. of sec. 34, T. 11 S., R. 15 W., bears West 4.38 chs. dist., monumented by an iron post, 2½ ins. diam., set, mkd. and witnessed as described in the field notes of the concurrent survey of T. 11 S., R. 15 W.

Land, rolling.
Soil, sandy clay, rocky N. portion.
Timber, none.
Undergrowth, shadscale.

Point for the cor. of secs. 1 and 2, on the N. bdy. of the Tp., set at proportionate dist. bet. the closing cor. of Ts. 12 S., Rs. 14 and 15 W., and the closing cor. of secs. 3 and 4, T. 12 S., R. 15 W.

Set an iron post, 30 ins. long, 2½ ins. diam., 24 ins. in the ground with brass cap mkd.

T11S
S36
S2|S1
T12S R15W
1960

Raise a mound of stone, 3 ft. base, 2 ft. high, S. of cor.

From this cor. the S¼ sec. cor. of sec. 36, T. 11 S., R. 15 W. bears West 4.24 chs. dist. monumented by an iron post, 2½ ins. diam., set, mkd. and witnessed as described in the field notes of the concurrent survey of T. 11 S., R. 15 W.

Point for the ¼ sec. cor. of sec. 2 at midpoint on the N. bdy. of sec. 2, T. 12 S., R. 15 W.

Set an iron post, 30 ins. long, 2½ ins. diam., 24 ins. in the ground with brass cap mkd.

T11S
¼ S2
T12S R15W
1960

Raise a mound of stone, 3 ft. base, 2 ft. high, S. of cor.

From this ¼ sec. cor. the cor. of secs. 35 and 36, T. 11 S., R. 15 W. bears West 4.275 chs. dist., monumented by an iron post, 2½ ins. diam., set, mkd. and witnessed as described in the field notes of the concurrent survey of T. 11 S., R. 15 W.

Point for the cor. of secs. 2 and 3, on the N. bdy. of the Tp. set at proportionate dist. bet. the closing cor. of Ts. 12 S., Rs. 14 and 15 W., and the closing cor. of secs. 3 and 4, T. 12 S., R. 15 W.

Set an iron post, 30 ins. long, 2½ ins. diam., 24 ins. in the ground with brass cap mkd.

T11S
S35
S3|S2
T12S R15W
1960

Survey of a Portion of the Subdivision of T. 12 S., R. 15 W.

Chains	
	Raise a mound of stone, 3 ft. base, 2 ft. high, S. of cor.
	From this cor. the S¼ sec. cor. of sec. 35, T. 11 S., R. 15 W. bears West 4.31 chs. dist., monumented by an iron post, 2½ ins. diam., set, mkd. and witnessed as described in the field notes of the concurrent survey of T. 11 S., R. 15 W.
	From the cor. of secs. 2 and 3, on the N. bdy. of the Tp.
	S. 0° 01' E., bet. secs. 2 and 3.
	Over rolling desert land draining W.; asc. 10 ft. along W. slope.
6.85	Point for the 1/16 sec. cor. of secs. 2 and 3.
	Set an iron post, 30 ins. long, 2½ ins. diam., 24 ins. in the ground, with brass cap mkd.
	T12S R15W 1/16 S3 | S2 80 1960
	Raise a mound of stone, 2½ ft. base, 2 ft. high, W. of cor.
	Asc. 75 ft. along W. slope.
46.85	Point for the ¼ sec. cor. of secs. 2 and 3.
	Set an iron post, 30 ins. long, 2½ ins. diam., 24 ins. in the ground, with brass cap mkd.
	T12S R15W ¼ S3 | S2 1960
	Raise a mound of stone, 3 ft. base, 2½ ft. high, W. of cor.
	Cor. falls on top of low rocky rise which bears E. and W.; desc. 10 ft. along gentle W. slope.
62.30	Wash, 2 ft. deep, 30 lks wide, drains N. 65° W.; asc. 50 ft. over NW. slope.
86.85	Point for the cor. of secs. 2, 3, 10 and 11.
	Set an iron post, 30 ins. long, 2½ ins. diam., 22 ins. in the ground, with brass cap mkd.
	T12S R15W S3 | S2 S10 | S11 1960
	Raise a mound of stone, 3 ft. base, 2 ft. high, W. of cor.
	Land, rolling to slightly broken. Soil, gravelly clay, rocky spots. Timber, none. Undergrowth, shadscale.
	N. 89° 52' E., bet. secs. 2 and 11.

Survey of a Portion of the Subdivision of T. 12 S., R. 15 W.

Chains	
	Over slightly borken bench land, draining NW.; asc. 10 ft. over NW. slope.
25.80	Wash, 2 ft. deep, 20 lks. wide, drains NW.; asc. 20 ft. over NW. slope.
34.60	Small wash, drains NW.; asc. 10 ft. over NW. slope.
39.40	Point selected for the witness 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, in a mound of stone, 3 ft. base, with brass cap mkd. T12S R15W ¼ S 2 → W S11 C 1960
40.00	True point for the ¼ sec. cor. of secs. 2 and 11 falls in wash where monument cannot be perpetuated; asc. 10 ft. over NW. slope.
44.00	Wash, 4 ft. deep, 50 lks. wide, drains NW.; asc. 10 ft. over NW. slope.
52.00	Wash, 4 ft. deep, 40 lks. wide, drains N. 60° W.; asc. 20 ft. over NW. slope.
61.30	Wash, 2 ft. deep, 30 lks. wide, drains NW.; asc. 50 ft. over NW. slope.
80.00	Point for the cor. of secs. 1, 2, 11 and 12. Set an iron post, 30 ins. long, 2½ ins. diam., 22 ins. in the ground, with brass cap mkd. T12S R15W S2 | S1 S11 | S12 1960 Raise a mound of stone, 3 ft. base, 2½ ft. high, W. of cor. Land, slightly broken bench. Soil, gravelly and rocky. Timber, none. Undergrowth, shadscale.

	N. 0° 02' W., bet. secs. 1 and 2. Over slightly broken desert land on W. slopes of Fish Spring Range; desc. 5 ft. over NW. slope.
5.30	Wash, 4 ft. deep, 30 lks. wide, drains N. 70° W.; desc. 20 ft. over NW. slope.
24.20	Unimproved road, bears N. 10° E. and S. 10° W.; desc. 15 ft. along W. slope.
31.40	Wash, 2 ft. deep, 30 lks. wide, drains W.; desc. 10 ft. along W. slope.
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, in a collar of stone, with brass cap mkd. T12S R15W ¼ S2 | S1 1960

Chains	
	Desc. 25 ft. over NW. slope.
52.50	Low rocky rise, bears E. and W.; desc. 25 ft. over NW. slope.
65.60	Wash, 2 ft. deep, 30 lks. wide, drains NW.; desc. 20 ft. over NW. slope.
80.00	Point for the 1/16 sec. cor. of secs. 1 and 2.
	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.
	T12S R15W 1/16 S2 | S1 80 1960
	Desc. 10 ft. over NW. slope.
86.62	The cor. of secs. 1 and 2 on the N. bdy. of the Tp.
	Land, slightly broken. Soil, gravelly with rocky spots. Timber, none. Undergrowth, shadscale.
	From the cor. of secs. 15, 16, 21 and 22.
	S. 89° 55' W., bet. secs. 16 and 21.
	Over broken desert land; desc. 40 ft. over W. slope.
35.30	Wash, 3 ft. deep, 20 lks. wide, drains NW. about 4 chs. to junction.
37.40	Wash, 4 ft. deep, 60 lks. wide, drains N.; asc. 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., 24 ins. in the ground, with brass cap mkd.
	T12S R15W ¼ S16 S21 1960
	Raise a mound of stone, 3 ft. base, 2 ft. high, N. of cor.
	Asc. 10 ft. over E. slope.
46.00	Top of rocky rise, bears S. and N. about 5 chs. to end; desc. 15 ft. over W. slope.
74.30	Wash, 2 ft. deep, 30 lks. wide, drains N.; asc. gentle E. slope.
79.20	Graded dirt road, bears NW. and SE. irregularly.
80.00	Point for the cor. of secs. 16, 17, 20 and 21.
	Set an iron post, 30 ins. long, 2½ ins. diam., 24 ins. in the ground, with brass cap mkd.

Chains	
	T12S R15W S17 | S16 S20 | S21 1960
	Raise a mound of stone, 2½ ft. base, 2 ft. high, W. of cor.
	Land, broken. Soil, clay with gravel and rocky spots. Timber, none. Undergrowth, shadscale.
	N. 0° 03' W., bet. secs. 16 and 17.
	Over broken desert land; desc. gentle E. slope.
1.20	Graded dirt road, bears NW. and SE.
7.10	Small wash, drains NE.; desc. 20 ft. along gentle 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., 24 ins. in the ground, with brass cap mkd.
	T12S R15W ¼ S17 | S16 1960
	Raise a mound of stone, 3 ft. base, 2 ft. high, W. of cor.
	Cont. over rolling desert land.
60.00	Low rise, bears NW. and SE.
73.50	Graded dirt road, bears N. 5° E. and S. 20° W.
80.00	Point for the cor. of secs. 8, 9, 16 and 17.
	Set an iron post, 30 ins. long, 2½ ins. diam., 22 ins. in the ground, with brass cap mkd.
	T12S R15W S8 | S9 S17 | S16 1960
	Raise a mound of stone, 3 ft. base, 2½ ft. high, W. of cor.
	Land, broken to rolling. Soil, clay with gravel and rocky spots. Timber, none. Undergrowth, shadscale.
	From the cor. of secs. 9, 10, 15 and 16.
	S. 89° 54' W., bet. secs. 9 and 16.
	Over rolling to broken desert land; desc. 20 ft. over gentle NW. slope.
32.90	Trail road, bears NW. and SE.; desc. 10 ft. over NW. slope.
40.04	Point for the ¼ sec. cor. of secs. 9 and 16.

Survey of a Portion of the Subdivision of T. 12 S., R. 15 W.

Chains	
	Set an iron post, 30 ins. long, 2½ ins. diam., 24 ins. in the ground, with brass cap mkd.
	T12S R15W ¼ S 9 S16 1960
	Raise a mound of stone, 3 ft. base, 2 ft. high, N. of cor.
52.10	Low rise, bears N. and S.; desc. 10 ft. over NW. slope.
52.20	Wash, 3 ft. deep, 60 lks. wide, drains N. 30° W.; asc. 10 ft. over gentle E. slope of rise.
65.10	Top of low rise, bears N. and S.; thence over gently rolling land.
79.70	Road, bears N. 5° E. and S. 5° W.
80.08	The cor. of secs. 8, 9, 16 and 17.
	Land, rolling to broken. Soil, sandy clay with some gravel. Timber, none. Undergrowth, shadscale.
	From the cor. of secs. 4, 5, 32 and 33, on the S. bdy. of the Tp., monumented by an iron post, 2½ ins. diam., set, mkd. and witnessed as described in the field notes of the concurrent survey of T. 13 S., R. 15 W.
	N. 0° 03' W., bet. secs. 32 and 33.
	Over rolling desert land draining NE.
23.20	Road, bears NW. and SE.
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 ground, in a collar of stone, with brass cap mkd.
	T12S R15W ¼ S32 | S33 1960
	Cont. over gently rolling desert land.
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, in a collar of stone, with brass cap mkd.
	T12S R15W S29 | S28 S32 | S33 1960
	Land, rolling. Soil, sandy clay. Timber, none. Undergrowth, shadscale.
	From the cor. of secs. 5, 6, 31 and 32, on the S. bdy. of the Tp., monumented by an iron post, 2½ ins. diam., set, mkd. and witnessed as described in the field notes of the concurrent survey of T. 13 S., R. 15 W.

Survey of a Portion of the Subdivision of T. 12 S., R. 15 W.

Chains	
	N. 0° 03' W., bet. secs. 31 and 32.
	Over gently rolling desert land; desc. 105 ft. over NE. slope.
24.00	Land changes to nearly level bottom land draining NE.
40.00	Point for the ¼ sec. cor. of secs. 31 and 32.
	Set an iron post, 30 ins. long, 2½ ins. diam., 24 ins. in the ground with brass cap mkd.
	T12S R15W ¼ S31 | S32 1960
	Cont. over nearly level land,
80.00	Point for the cor. of secs. 29, 30, 31 and 32.
	Set an iron post, 30 ins. long, 2½ ins. diam., 20 ins. in the ground in a collar of stone, with brass cap mkd.
	T12S R15W S30 | S29 S31 | S32 1960
	Land, rolling gently. Soil, clay with sand. Timber, none. Undergrowth, shadscale.

	From the cor. of secs. 28, 29, 32 and 33.
	S. 89° 54' W., bet. secs. 29 and 32.
	Over gently rolling desert land.
9.00	Graded dirt road, bears N. and S.
39.99	Point for the ¼ sec. cor. of secs. 29 and 32.
	Set an iron post, 30 ins. long, 2½ ins. diam., 22 ins. in the ground in a collar of stone, with brass cap mkd.
	T12S R15W ¼ S29 S32 1960
	Cont. over gently rolling desert land draining NE.
79.98	The cor. of secs. 29, 30, 31 and 32.
	Land, rolling. Soil, sandy clay. Timber, none. Undergrowth, shadscale.

Township 12 South, Range 15 West

Chains

General Description

The extreme west portion of T. 12 S., R. 15 W. extends onto the west slopes of the Fish Springs Mountain and is very broken. The remainder of the township consists of rolling to slightly broken desert land with some low hills in the west and south portions.

There are many roads within the township leading to winter sheep camps and stock ponds. Most of the township can be traveled with four wheel drive vehicles.

The elevation varies from about 4800 feet above sea level on the bottom land to about 6000 feet above sea level on the west slopes of the Fish Springs Mountain.

The timber consists of a few scattered juniper along the east boundary. The undergrowth is almost entirely shadscale.

No permanent water was noted during the survey.

Chains

4-680
(Feb., 1950)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FIELD ASSISTANTS

NAMES	CAPACITY
Donald A. Cannon	Crew Chief and Cornerman
James R. Munson	Transit
Jeddie J. Judd	Notes
John D. Carter	Front Chain
Dennis D. Bland	Flagman

CERTIFICATE OF CADASTRAL ENGINEER

I, We, Donald A. Cannon and Craig P. Sylvester, HEREBY CERTIFY upon honor that, pursuance of special instructions bearing date of the 25th day of August, and supplemental special instructions dated the 11th day of May, we have surveyed independently resurveyed the east boundary and surveyed a portion of the subdivision of Township 12 South, Range 15 West

of the Salt Lake Meridian, in the State of Utah, which are represented in the foregoing field notes as having been executed by me us and under my our 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 11, 1961

Donald A. Cannon, Cadastral Surveyor

Craig P. Sylvester, Cadastral Surveyor

CERTIFICATE OF APPROVAL

BUREAU OF LAND MANAGEMENT,

Washington, D. C., APR 17 1962, *19*

The foregoing field notes of the ~~survey of~~ independent resurvey of the east boundary and survey of a portion of the subdivision of T. 12 S., R. 15 W., Salt Lake Meridian, Utah

executed by Donald A. Cannon and Craig P. Sylvester, Cadastral Surveyors

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~~

~~, is a true copy of the original field notes.~~

~~Cadastral Engineering Staff Officer.~~

U. S. GOVERNMENT PRINTING OFFICE 16—63894-2

4—679
(September 1948)

75

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

ORIGINAL

FIELD NOTES

OF A DEPENDENT RESURVEY

OF THE EAST BOUNDARY OF

TOWNSHIP 12 SOUTH, RANGE 17 WEST

A DEPENDENT RESURVEY

OF THE SOUTH BOUNDARY OF

TOWNSHIP 11 SOUTH, RANGE 16 WEST

AND

A SURVEY OF THE EAST BOUNDARY

AND PORTION OF THE SUBDIVISION

OF TOWNSHIP 12 SOUTH, RANGE 16 WEST

Of the SALT LAKE *Meridian,*

n the State of UTAH

EXECUTED BY

Craig P. Sylvester, Cadastral Surveyor

Jnder special instructions dated August 25, *19* 36, *which provided*
upplemental Special Instructions May 11 1959
or the surveys included under Group No. 280, *approved* May 12, 1959

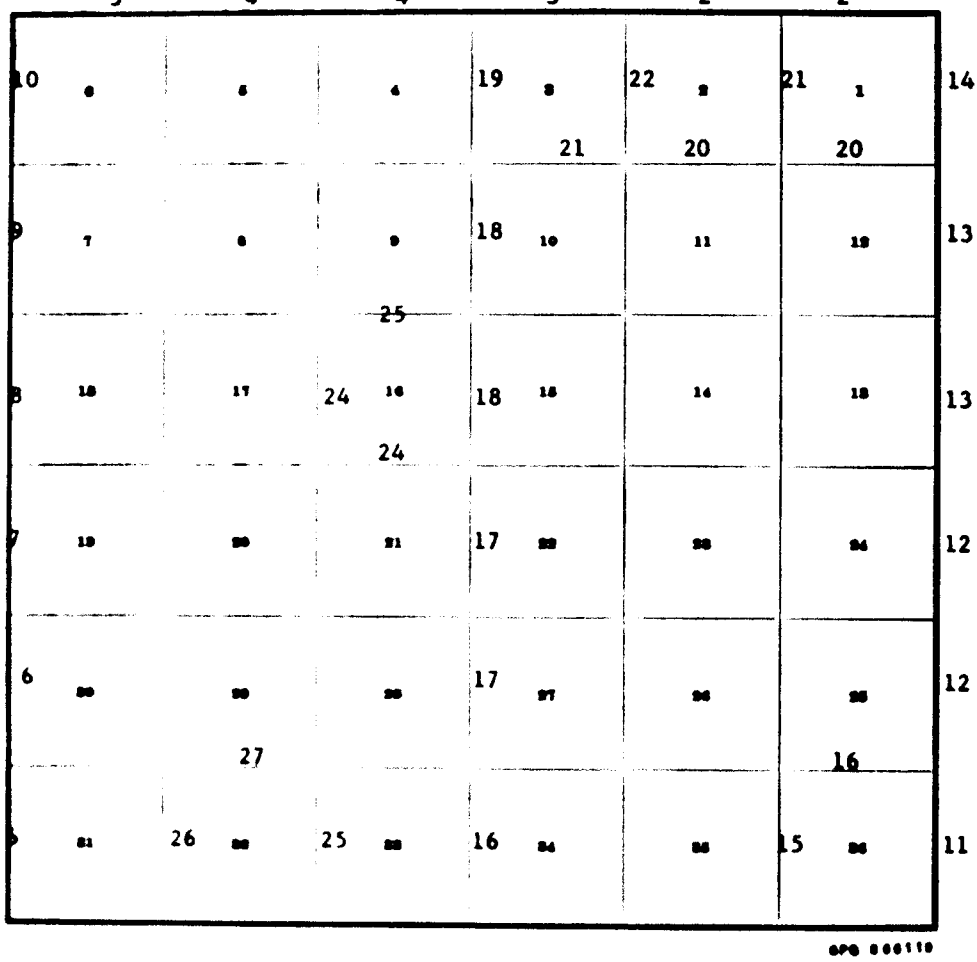
nd assignment instructions dated April 28, *19* 60

Survey commenced June 13, *19* 60

Survey completed June 29, *19* 60

INDEX DIAGRAM

Township 12 SOUTH , *Range* 16 WEST



GPO 866110

Township 12 South, Range 16 West

Chains

The north boundary was surveyed by T. C. bailey in 1882. The west boundary was surveyed by Alonzo J. Stookey in 1889, and dependently resurveyed by Elliot Bird in 1950. The south boundary was surveyed concurrently and shows in the field notes of T. 13 S., R. 16 W.

The following field notes are those of a dependent resurvey of the east boundary of T. 12 S., R. 17 W., and the south boundary of T. 11 S., R. 16 W., and a survey of the east boundary and a portion of the subdivision deemed sufficient in extent to facilitate the development of the natural resources, and mark the boundaries of those sections that are normally 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 to ascertain the position of the lost corners after every reasonable possibility of finding direct evidence of the corner had been exhausted.

The survey was executed with W. & L. E. Gurley solar transit no. 541325 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.

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°43'34.75"N. and longitude 113°35'01.96"W. as adjusted from traverses to U. S. G. S. triangulation station Fish.

The magnetic declination was read at a number of stations throughout the township and the average of these readings was found to be 16°30' East.

Dependent Resurvey of the South of T. 11 S., R. 16 W

Chains	
	Dependent resurvey of the south boundary of T. 11 S., R. 16 W. with cors. marked for T. 11 S., R. 16 W. only.
	Dependent Resurvey reestablishing the survey executed by T. C. Bailey in 1882.
	The original cor. of Tps. 11 and 12 S., Rgs. 15 and 16 W. marked by a mound of dirt with small stones around, and remains of decayed wood in center of mound, with faint trace of pits. This point now functions as the cor. of Tps. 11 S., Rs. 15 and 16 W., only.
	At the cor. point
	Set an iron post 30 ins. long, 2½ ins. diam. 24 ins. in the ground, with brass cap mkd.
	T11S R16W R15W S36 | S31 T12S 1960
	N. 89° 41' W. along the S. bdy. of sec. 36.
	Over gently rolling desert land.
41.65	Point for the ¼ sec. cor. of sec. 36, T. 11 S., R. 16 W. at proport. dist., there is no remaining evidence of the original corner.
	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.
	T11S R16W ¼ S36 1960
	Cont. over gently rolling desert land.
55.70	Bulldozed road, bears NE. and SW.
75.10	Graded dirt road, Fish Springs Road to Trout Creek, bears NE. and SW.
83.30	The original cor. of secs. 1, 2, 35 and 36 marked by a stone 10x12x14 firmly set and plainly mkd. 1 notch on E. and 5 notches on W. face.
	At the cor. point
	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.
	T11S R16W S35 S36 1960
	Bury the original cor. stone alongside iron post.
	Land, gently rolling Soil, sandy clay Timber, none Undergrowth, shadscale and sage
	N. 89° 37' W. along the S. bdy. of sec. 35.
	Over gently rolling desert land draining N.

Chains

41.83 The original ¼ sec. cor. of secs. 2 and 35, monumented by a wood stake with faint trace of marks.

At the cor. point.

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.

T11S R16W
¼ S35
1960

Bury the original cor. post alongside the iron post.

N. 89° 18' W. beginning new measurement.

Cont. over gently rolling desert land.

41.58 The original cor. of secs. 2, 3, 34 and 35, marked by a wood post set in ground with faint trace of markings.

At the cor. point

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.

T11S R16W
S34|S35
1960

Bury original post alongside iron post

Land, gently rolling
Soil, sandy clay
Timber, none
Undergrowth, shadscale, sage and greasewood.

N. 89° 40' W. along the S. bdy. of sec. 34.

Over gently rolling desert land draining N.

40.72 The original ¼ sec. cor. of secs. 3 and 34, marked by a charred juniper stake with dim marks.

At the corner point

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.

T11S R16W
¼ S34
1960

Bury the original post alongside iron post.

N. 89°21' W. beginning new measurement.

41.19 The original cor. of secs. 3, 4, 33 and 34, marked by a wood stake lying on ground, no legible marks, faint trace of pits.

At the corner point

Set an iron post 30 ins. long, 2½ ins. diam. 24 ins. in the ground,

Chains

with brass cap mkd.

T11S R16W
S33|S34
1960

Bury the original post and a large boulder alongside iron post.

Land, gently rolling
Soil, sandy clay
Timber, none
Undergrowth, shadscale, sage and greasewood.

S. 89° 57' W. along the S. bdy. of sec. 33.

Over gently rolling desert land.

41.61 The original ¼ sec. cor. of secs. 4 and 33, marked by pieces of decayed stake and faint trace of pits.

At the corner point

Set an iron post 30 ins. long, 2½ ins. diam. 24 ins. in the ground, with brass cap mkd.

T11S R16W
¼ S33
1960

Bury decayed wood and one large boulder alongside iron post

N. 89° 04' W. beginning new measurement.

41.32 The original cor. of secs. 4, 5, 32 and 33, marked by a cedar stake set in ground, plainly mkd. 4 notches on E. and 2 notches on W. face, faint trace of pits.

At the corner point

Set an iron post 30 ins. long, 2½ ins. diam. 24 ins. in the ground, with brass cap mkd.

T11S R16W
S32|S33
1960

Bury original cor. post and one large boulder alongside iron post

Land, rolling
Soil, sandy clay
Timber, none
Undergrowth, shadscale, sage and greasewood.

N. 89° 37' W.. along the S. bdy. of sec. 32.

Over gently rolling desert land.

39.20 E. edge of terrace, bears N. and S., desc. 15 ft. over W. slope of terrace.

41.03 The original ¼ sec. cor. of secs. 5 and 32 marked by a sandstone 10x10x6, dimly mkd. ¼, small mound of stone.

Set an iron post 30 ins. long, 2½ ins. diam. 24 ins. in the ground,

Chains	
	and in a collar of stone, with brass cap mkd. T11S R16W ¼ S32 1960 Bury original cor. stone alongside of iron post. Cor. falls about half way down W. slope of terrace.
	N. 89° 39' W. beginning new measurement. Desc. 20 ft. over W. slope of terrace.
2.00	Base of terrace, bears N. and S. irregular, desc. 30 ft. W. slope of wide swale in desert.
24.20	Wash in bottom of swale, drains NW. irregular, asc. 60 ft. over E. slope of swale.
40.80	W. crest of swale, bears N. and S. irregular, asc. over gently rolling desert land, draining NE.
41.38	Point for the cor. of secs. 31 and 32, T. 11 S., R. 16 W. at prop. dist. there is no remaining evidence of the original corner Set an iron post 30 ins. long, 2½ ins. diam. 24 ins. in the ground, with brass cap mkd. T11S R16W S31|S32 1960 Placed one large boulder N. of iron post Land, rolling Soil, sandy clay Timber, none Undergrowth, shadscale, sage and greasewood.
	N. 89° 39' W. along the S. bdy. of sec. 31. Over gently rolling desert land, draining NE.
41.38	The original ¼ sec. cor. of secs. 31 and 6, marked by a stone 3x6x8 ins. mkd. ¼ , also remains of decayed stake. Set an iron post 30 ins. long, 2½ ins. diam. 24 ins. in the ground, with brass cap mkd. T11S R16W ¼ S31 1960 Bury decayed stake and original cor. stone alongside iron post. Raised mound of stone 2½ ft. base, 2 ft. high N. of cor.
	S. 89° 52' W. beginning new distance. Cont. over gently rolling desert land.
41.66	The cor. of Tps. 11 and 12 S., Rgs. 16 and 17 W. marked by an iron post 3 ins. diam. set, mkd. and witnessed as described in the official record.

Dependent Resurvey of the South T. 11 S., R. W.

Chains

Land, rolling
Soil, sandy clay
Timber, none
Undergrowth, shadscale, and sage

Dependent resurvey of the east boundary of T. 12 S., R. 17 W. and the establishment thereon of new cors. pertaining to T. 12 S., R. 16 W. at latitudinal intervals of 40.00 chains north of the closing cor. of Tps. 12 and 13 S., R. 16 W.

Reestablishment of the Survey executed by Elliot Bird in 1950.

From the cor. of Tps. 12 and 13 S., R. 17 W. monumented by an iron post 3 ins. diam. set and witnessed as described in the official record and remkd. as described in the field notes of T. 13 S., R. 16 W.

N. 0° 05' W. along the E. bdy. of sec. 36.

Over gently rolling desert land.

6.10 The cor. of Tps. 12 and 13 S., R. 16 W. marked by an iron post, 2½ ins. diam., set, mkd., and witnessed as described in the concurrent survey of the N. bdy. of T. 13 S., R. 16 W.

39.73 The ¼ sec. cor. of secs. 31 and 36, marked by an iron post 1 in. diam. set, mkd, and witnessed as described in the official record. This cor. was remkd. and now functions for T. 12 S., R. 17 W. only.

¼
S36 |
1950-60

N. 0° 02' W. beginning new measurement.

6.37 Point for the W¼ sec. cor. of secs. 31, T. 12S., R. 16 W.

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.

T12S
R17W R16W
¼
S31
1960

Cont. over rolling desert land.

39.43 The cor. of secs. 25, 30, 31 and 36 marked by an iron post 2 ins. diam. set, mkd., and witnessed as described in the official record. This cor. was remkd. and now functions for T. 12 S., R. 17 W. only.

T12S
R17W R16W
S25 | S31
S36 |
1930-60

Land, rolling desert
Soil, sandy clay
Timber, none
Undergrowth, shadscale and sage.

N. 0° 03' W. along the E. bdy. of sec. 25.

Dependent Resurvey of the East Boundary of T. 12 S., R. 17 W.

Chains	
	Over gently rolling desert land.
6.94	Point for the cor. of secs. 30 and 31, T. 12 S., R. 16 W.
	Set an iron post 30 ins. long, 2½ ins. diam. 22 ins. in the ground, and in a collar of stone, with brass cap mkd.
	T12S R17W R16W S25 | S30/S31 1960
20.94	Graded dirt road, NE. to Fish Springs and SW. to Trout Creek; desc. over gently rolling desert land draining N.
40.51	The ¼ sec. cor. of secs. 25 and 30, monumented by an iron post 1 in. diam. set, mkd. and witnessed as described in the official record. This cor. was remkd. and now functions for T. 12 S., R. 17 W. only.
	¼ S25 | 1950-60
	N. 0° 03' W. beginning new measurement.
6.43	Point for the W¼ sec. cor. of sec. 30, T. 12 S., R. 16 W.
	Set an iron post 30 ins. long, 2½ ins. diam. 23 ins. in the ground, and in a collar of stone, with brass cap mkd.
	T12S R17W R16W | ¼ | S30 1960
40.16	The cor. of secs. 19, 24, 25 and 30 monumented by an iron post 2 ins. diam. set, mkd, and witnessed as described in the official record. This cor. was remkd.
	T12S R17W R16W S24 | S30 S25 | 1950-60
	Land, gently rolling Soil, sandy clay Timber, none Undergrowth, shadscale and sage.
	N. 0° 02' W. along the E. bdy. of sec. 24.
	Over gently rolling desert land.
6.27	Point for the cor. of secs. 19 and 30, T. 12 S., R. 16 W.
	Set an iron post 30 ins. long, 2½ ins. diam. 24 ins. in the ground, with brass cap mkd.
	T12S R17W R16W S24 | S19/S30 1960

of the East of T. 12 W.

Chains

Raised mound of stone 2½ ft. base, 2 ft. high E. of cor.

34.30 Wash, 4 ft. deep, 40 lks. wide, drains N. 35° W., cont. over gently rolling desert land.

40.20 The ¼ sec. cor. of secs. 19 and 24 monumented by an iron post 1 in. diam. set, mkd., and witnessed as described in the official record. This cor. was remkd. and now functions for T. 12 S., R. 17 W. only.

¼
S24
1950-60

N. 0° 04' W. beginning new measurement.

6.07 Point for the W¼ sec. cor. of sec. 19, T. 12 S., R. 16 W.

Set an iron post 30 ins. long, 2½ ins. diam. 24 ins. in the ground, with brass cap mkd.

T12S
R17W R16W
¼
S19
1960

Raised mound of stone 2½ ft. base, 2 ft. high E. of cor.

40.26 The cor. of secs. 13, 18, 19 and 24, monumented by an iron post 3 ins. diam. set, mkd., and witnessed as described in the official record. This cor. was remkd. and now functions for T. 12 S., R. 17 W. only.

T12S
R17W R16W
S13 | S19
S24
1950-60

Land, rolling
Soil, sandy clay
Timber, none
Undergrowth, shadscale.

N. 0° 03' W. along the E. bdy. of sec. 13.

Over gently rolling desert land.

5.81 Point for the cor. of secs. 18, and 19, T. 12 S., R. 16 W.

Set an iron post 30 ins. long, 2½ ins. diam. 24 ins. in the ground, with brass cap mkd.

T12S
R17W R16W
S13 | S18
S19
1960

Raised mound of stone 2½ ft. base, 2 ft. high E. of cor.

40.18 The ¼ sec. cor. of secs. 13 and 18, monumented by an iron post 1 in. diam. set, mkd., witnessed as described in the official record. This cor. was remkd. and now functions for T. 12 S., R. 17 W. only.

¼
S13
1950-60

Dependent Resurvey of the East Boundary of T. 12 S., R. 17 W.

Chains	
	N. 0° 03' W. beginning new measurement.
5.63	Point for the W¼ sec. cor. of sec. 18, T. 12 S., R. 16 W. Set an iron post 30 ins. long, 2½ ins. diam. 22 ins. in the ground, and in a collar of stone, with brass cap mkd. T12S R17W R16W ¼ S18 1960
	Cont. over gently rolling desert land.
40.21	The cor. of secs. 7, 12, 13 and 18, monumented by an iron post 3 ins. diam. set, mkd., and witnessed as described in the official record. This cor. was remkd. and now functions for T. 12 S., R. 17 W. only. T12S R17W R16W S12 | S18 S13 1950-60
	Land, rolling Soil, sandy clay Timber, none Undergrowth, shadscale and sage.
	N. 0° 03' W. along the E. bdy. of sec. 12.
	Over gently rolling desert land.
5.42	Point for the cor. of secs. 7 and 18, T. 12 S., R. 16 W. Set an iron post 30 ins. long, 2½ ins. diam. 24 ins. in the ground, with brass cap mkd. T12S R17W R16W S12 | S7 S18 1960
	Raised mound of stone 2½ ft. base, 2 ft. high E. of cor.
40.21	The ¼ sec. cor. of secs. 7 and 12, monumented by an iron post 1 in. diam. set, mkd., and witnessed as described in the official record. This cor. was remkd. and now functions for T. 12 S., R. 17 W. only. ¼ S12 | 1950-60
	N. 0° 03' W. beginning new measurement.
5.21	Point for the W¼ sec. cor. of sec. 7, T. 12 S., R. 16 W. Set an iron post 30 ins. long, 2½ ins. diam. 24 ins. in the ground, with brass cap mkd. T12S R17W R16W ¼ |S7 1960

88

Dependent Resurvey of the East Boundary of T. 12 S., R. 17 W.

Chains	
	Raised mound of stone 2½ ft. base, 2 ft. high E. of cor.
14.11	Trail road, bears E. and W.
30.00	Graded dirt road, bears N. 30° W. and S. 30° E.
40.21	The cor. of secs. 1, 6, 7 and 12, monumented by an iron post 3 ins. diam. set, mkd., and witnessed as described in the official record. This cor. was remkd and now functions for T. 12 S., R. 17 W. only.

T12S
R17W R16W
S1 / S12 | S7
1950-60

Land, rolling
Soil, sandy clay
Timber, none
Undergrowth, shadscale and sage.

N. 0° 03' W. along the E. bdy. of sec. 1.

Over gently rolling desert land.

5.00 Point for the cor. of secs. 6 and 7, T. 12 S., R. 16 W.

Set an iron post 30 ins. long, 2½ ins. diam. 24 ins. in the ground, with brass cap mkd.

T12S
R17W R16W
S1 | S6 / S7
1960

Raised mound of stone 2½ ft. base, 2 ft. high E. of cor.

40.21 The ¼ sec. cor. of secs. 1 and 6, monumented by an iron post 1 in. diam. set, mkd., and witnessed as described in the official record. This cor. was remkd. and now functions for T. 12 S., R. 17 W. only.

¼
S1 |
1950-60

N. 0° 02' W. beginning new measurement.

4.79 Point for the W¼ sec. cor. of sec. 6, T. 12 S., R. 16 W. falls on graded gravel road, Sand Pass, to Callao which bears NW. and SE.

At the cor. point deposit broken glass 2 ft. below road surface.

From which:

An iron post 30 ins. long, 2½ ins. diam., 18 ins. in the ground and in a mound of stone, 3½ ft. base to top with brass cap mkd. R.M., T. 12 S., R. 16 W., ¼ S6, 20 ft., with arrow pointing to cor. bears N. 53° 10' E., 20 ft. dist.

An iron post 30 ins. long, 2½ ins. diam., 24 ins. in the ground with brass cap mkd. R.M., T. 12 S., R. 16 W. ¼ S6, 30 ft., with arrow pointing to cor. bears S. 13° 12' E., 30 ft. dist.

Raise a mound of stone 2½ ft. base, 2 ft. high W. of monument.

U. S. GOVERNMENT PRINTING OFFICE 16—28450-2

Dependent Resurvey of the East Boundary of T. 12 S., R. 17 W.

Chains	
44.79	Point for the 1/16 sec. cor. of sec. 6, T. 12 S., R. 16 W. Set an iron post 30 ins. long, 2½ ins. diam. 24 ins. in the ground, with brass cap mkd. T12S R17W R16W 1/16 S6 80 1960 Raised mound of stone 2½ ft. base, 2 ft. high E. of cor.
55.42	The cor. of Tps. 11 and 12 S., Rgs. 16 and 17 W. marked by an iron post 3 ins. diam. set, mkd., and witnessed as described in the official record. Land, rolling Soil, sandy clay Timber, none Undergrowth, shadscale and sage.

Survey of the East Boundary T. 12 S., R. 16 W.

Chains	
	From the cor. of Tps. 12 and 13 S., Rgs. 15 and 16 W. monumented by an iron post 2½ ins. diam. set, mkd., and witnessed as described in the field notes of T. 13 S., R. 16 W. North, bet. secs. 31 and 36. Over hilly desert land, asc. 150 ft. over irregular S. slope.
15.90	Spur, slopes SE., desc. 125 ft. along E. slope.
30.00	Spur, slopes NE., desc. 40 ft. over NW. slope.
40.00	Point for the ¼ sec. cor. of secs. 31 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 4 ft. base, to top, with brass cap mkd. T12S R16W R15W ¼ S36 S31 1960 Desc. 90 ft. over NW. slope.
50.40	Spur, slopes NW., desc. 105 ft. over N. slope.
62.20	Wash, 2 ft. deep, 20 lks. wide, drains NE., asc. 30 ft. over SE. slope.
71.30	Low spur, slopes SW., desc. 45 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. 15 ins. in the ground, to bedrock, and in a mound of stone 3 ft. base to top, with brass cap mkd.

Survey of the East Boundary T. 12 S., R. 16 W.

Chains	
	T12S R16W R15W S25 | S30 S36 | S31 1960 Cor. falls in small swale draining W. Land, hilly Soil, gravel and rocks Timber, none Undergrowth, shadscale and black brush
	North, bet. secs. 25 and 30. Over hilly desert land, asc. 10 ft. along W. slope.
9.70	Slope changes, desc. 70 ft. over NE. slope.
20.90	Wash, 2 ft. deep, 10 lks. wide, drains E., desc. 30 ft. along E. slope of draw.
40.00	Point for the ¼ sec. cor. of secs. 25 and 30. Set an iron post 30 ins. long, 2½ ins. diam. 12 ins. in the ground, to bedrock, and in a mound of stone 3 ft. base to top, with brass cap marked. T12S R16W R15W ¼ S25 | S30 1960 Desc. 10 ft. along E. slope of draw.
48.00	End of desc. along E. slope, asc. 130 ft. over SE. slope.
63.90	Spur, slopes NE., desc. 30 ft. over gentle N. slope, leave low hills.
80.00	Point for the cor. of secs. 19, 24, 25 and 30. Set an iron post 30 ins. long, 2½ ins. diam. 15 ins. in the ground to bedrock and in a mound of stone 2½ ft. base, to top, with brass cap mkd. T12S R16W R15W S24 | S19 S25 | S30 1960 Land, hilly Soil, gravel and rocks Timber, none Undergrowth, shadscale
	North, bet. secs. 19 and 24. Over slightly broken desert land, desc. 20 ft. over N. slope.
40.00	Point for the ¼ sec. cor. of secs. 19 and 24. Set an iron post 30 ins. long, 2½ ins. diam. 10 ins. in the ground, to bedrock, and in a mound of stone 3 ft. base to top, with brass cap mkd.

U. S. GOVERNMENT PRINTING OFFICE 16—65520-2

Survey of the East Boundary T. 12 S., R. 16 W.

Chains	
	T12S R16W R15W ¼ S24 | S19 1960
	Desc. 170 ft. over N. slope.
80.00	Point for the cor. of secs. 13, 18, 19 and 24. 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.
	T12S T16W R15W S13 | S18 S24 | S19 1960
	Land, slightly broken Soil, gravelly Timber, none Undergrowth, shadscale and sage
	North, bet. secs. 13 and 18.
	Over rolling desert land, desc. 50 ft. over gentle N. slope.
40.00	Point for the ¼ sec. cor. of secs. 13 and 18. 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.
	T12S R16W R15W ¼ S13 | S18 1960
	Desc. gentle N. slope.
41.90	Wash, 3 ft. deep, 20 lks. wide, drains NW., desc. 20 ft. over gentle N. slope.
72.00	Slope becomes steeper with rocky spots, desc. 45 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. 10 ins. in the ground, to bedrock, and in a mound of stone 3 ft. base to top, with brass cap mkd.
	T12S R16W R15W S12 | S7 S13 | S18 1960
	Land, slightly broken Soil, gravelly with rocky spots Timber, none Undergrowth, shadscale.
	North, bet. secs. 7 and 12.
	Over slightly broken desert land, desc. 170 ft. over N. slope.

Survey of the East Boundary T. 12 S., R. 16 W.

Chains	
40.00	Point for the ¼ sec. cor. of secs. 7 and 12. Set an iron post 30 ins. long, 2½ ins. diam. 24 ins. in the ground, with brass cap mkd. T12S R16W R15W ¼ S12|S7 1960 Raised mound of stone 3 ft. base, 2 ft. high W. of cor. Desc. 80 ft. over N. slope.
80.00	Point for the cor. of secs. 1, 6, 7 and 12. Set an iron post 30 ins. long, 2½ ins. diam. 24 ins. in the ground, with brass cap mkd. R16W R15W S1|S6 S12|S7 1960 Raised mound of stone 2½ ft. base, 2 ft. high W. of cor. Land, slightly broken Soil, gravelly Timber, none Undergrowth, shadscale.
	North, bet. secs. 1 and 6. Over gently rolling desert land, desc. 60 ft. over gentle N. slope.
40.00	Point for the ¼ sec. cor. of secs. 1 and 6. Set an iron post 30 ins. long, 2½ ins. diam. 24 ins. in the ground, with brass cap mkd. T12S R16W R15W ¼ S1|S6 1960 Raised mound of stone 2½ ft. base, 2 ft. high W. of cor. Cont. over nearly level desert land draining N.
80.00	Point for the 1/16 sec. cor. of secs. 1 and 6. Set an iron post 30 ins. long, 2½ ins. diam. 24 ins. in the ground, with brass cap mkd. T12S R16W R15W 1/16 S1|S6 8 0 1960 Raised mound of stone 3 ft. base, 2 ft. high W. of cor.
87.43	Intersect the S. bdy. of T. 11 S., R. 16 W.

Survey of the East Boundary T. 12 S., R. 16 W.

Chains	
	Point for the closing cor. of T. 12 S., Rgs. 15 and 16 W. 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. T11S R16W S36 S1 | S6 C C T12S R16W R15W 1960 From this closing cor. the cor. of T. 11 S., Rgs. 15 and 16 W. bears S. 89° 41 E. 7.88 chs. dist. Land, rolling Soil, sandy clay Timber, none Undergrowth, shadscale
	Portion of the Subdivision T. 12 S., R. 16 W.
	From the cor. of secs. 1, 2, 35 and 36 on the S. bdy. of the Tp. monumented by an iron post 2½ ins. diam. set, mkd., and witnessed as described in the field notes of the concurrent survey of T. 13 S., R. 16 W. N. 0° 01' W. bet. secs. 35 and 36. Over rolling desert land draining NW.
5.40	Graded gravel road, Sand Pass to Callao, which bears N. 40° W., and S. 40° E., desc. 80 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. 24 ins. in the ground, with brass cap mkd. T12S R16W ¼ S35 | S36 1960 Raised mound of stone 2½ ft. base, 2 ft. high W. of cor. Desc. 30 ft. over NW. slope.
64.20	Wash, 2 ft. deep, 30 lks. wide, drains N. 35° W., desc. 20 ft. over NW. slope.
80.00	Point for the cor. of secs. 25, 26, 35 and 36. Set an iron post 30 ins. long, 2½ ins. diam. 18 ins. in the ground, to bedrock and in a mound of stone 2½ ft. base to top, with brass cap mkd. T12S R16W S26 | S25 S35 | S36 1960 Land, rolling Soil, clay with gravel and rocky spots Timber, none Undergrowth, shadscale.

Portion of the Subdivision of T. 12 S., R. 16 W.

Chains	
	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 rolling desert land, asc. 40 ft. over gentle E. slope.
19.60	Rise, bears N. and S., desc. 50 ft. over NW. slope.
40.00	Point for the ¼ sec. cor. of secs. 25 and 36.
	Set an iron post 30ins. long, 2½ ins. diam. 20 ins. in the ground, and in a collar of stone, with brass cap mkd.
	T12S R16W ¼ S25/S36 1960
	Desc. 75 ft. over gentle NW. slope.
80.00	The cor. of secs. 25, 26, 35 and 36.
	Land, rolling Soil, clay with gravel and rocky spots Timber, none Undergrowth, shadscale
	From the cor. of secs. 3, 4, 33 and 34 on the S. bdy. of the Tp. monumented by an iron post 2½ ins. diam. set, mdk. and witnessed as described in the field notes of the concurrent survey of T. 13 S., R. 16 W.
	N. 0° 02' W. bet. secs. 33 and 34.
	Over broken desert land, asc. 10 ft. over S. slope.
7.80	Small spur, slopes E., asc. 10 ft. along E. slope.
17.40	Spur, slopes NE., desc. 115 ft. over irregular N. slope.
40.00	Point for the ¼ sec. cor. of secs. 33 and 34.
	Set an iron post 30 ins. long, 2½ ins. diam. 24 ins. in the ground, with brass cap mkd.
	T12S R16W ¼ S33|S34 1960
	Raise a mound of stone 2½ ft. base, 2 ft. high W. of cor.
	Desc. 85 ft. over irregular N. slope.
77.40	Wash, 4 ft. deep, 1 ch. wide, drains N. 15° W., desc. 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. 15 ins. in the ground, to bedrock and in a mound of stone 3 ft. base to top, with brass cap mkd.
	T12S R16W S28|S27 S33|S34 1960

Chains	
	Land, broken Soil, gravelly with rocky spots Timber, none Undergrowth, shadscale, few sage.
	N. 0° 02' W. bet. secs. 27 and 28. Over broken desert land, desc. 30 ft. over N. slope.
16.40	Wash, same as last mile, 3 ft. deep, 70 lks. wide, drains N. 50° E., desc. 10 ft. along E. slope of rise.
39.50	Rise, bears S. 70° W., and N. 70° E. 3 chs. to end, desc. N. slope of rise.
40.00	Point for the ¼ sec. cor. of secs. 27 and 28. Set an iron post 30 ins. long, 2½ ins. diam. 24 ins. in the ground, with brass cap mkd. T12S R16W ¼ S28 | S27 1960 Raise a mound of stone 3 ft. base, 2 ft. high W. of cor. Desc. N. slope.
45.20	Wash, 4 ft. deep, 60 lks. wide, drains N. 80° W., asc. 60 ft. over S. slope.
61.20	Top of ascent, bears NE. and SW., desc. 20 ft. over gentle NW. slope, over rolling bench land.
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. T12S R16W S21 | S22 S28 | S27 1960 Land, broken to rolling Soil, gravelly clay with rocky spots Timber, none Undergrowth, shadscale, scattered sage.
	N. 0° 02' W. bet. secs. 21 and 22. Over rolling bench land, desc. 70 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. 10 ins. in the ground, to bedrock, and in a mound of stone, 4 ft. base to top, with brass cap mkd. T12S R16W ¼ S21 | S22 1960 Desc. 70 ft. over gentle NW. slope.

94

Portion of the Subdivision of T. 12 S., R. 16 W.

Chains	
77.40	Graded gravel road, Sand Pass to Callao, which bears NW. and SE., desc. gentle NW. slope.
80.00	Point for the cor. of secs. 15, 16, 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. T12S R16W S16 | S15 S21 | S22 1960 Land, rolling Soil, sandy clay Timber, none Undergrowth, shadscale and sage.
	N. 0° 02' W. bet. secs. 15 and 16. Over rolling desert bench land, desc. 15 ft. over NW. slope
7.50	Wash, 2 ft. deep, 1 ch. wide, drains NW., desc. 25 ft. over gentle NW. 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. T12S R16W ¼ S16 | S15 1960 Desc. 75 ft. over gentle NW. slope.
80.00	Point for the cor. of secs. 9, 10, 15 and 16. Set an iron post 30 ins. long, 2½ ins. diam. 24 ins. in the ground, with brass cap mkd. T12S R16W S9 | S10 S16 | S15 1960 Raised mound of stone 2½ ft. base, 2 ft. high W. of cor. Land, rolling Soil, sandy clay Timber, none Undergrowth, shadscale.
	N. 0° 02' W. bet. secs. 9 and 10. Over rolling desert bench land, desc. 20 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. 20 ins. in the ground, and in a collar of stone, with brass cap mkd. T12S R16W ¼ S9 S10

Chains	
	Cont. over nearly level land.
41.00	Graded road, Fish Springs to Trout Creek, bears NE. and SW.
80.00	Point for the cor. of secs. 3, 4, 9 and 10.
	Set an iron post 30 ins. long, 2½ ins. diam. 22 ins. in the ground, and in a collar of stone, with brass cap mkd. T12S R16W S4 | S3 S9 | S10 1960
	Land, rolling Soil, sandy clay Timber, none Undergrowth, shadscale.
	N. 0° 02' W. bet. secs. 3 and 4.
	Over nearly level desertland draining N.
17.00	S. edge of dry lake bed, no vegetation.
33.50	N. edge of same lake bed.
40.00	Point for the ¼ sec. cor. of secs. 3 and 4.
	Set an iron post 30 ins. long, 2½ ins. diam. 22 ins. in the ground, and in a collar of stone, with brass cap mkd. T12S R16W ¼ S4 | S3 1960
	Cont. over nearly level desert land.
80.00	Point for the 1/16 sec. cor. of secs. 3 and 4.
	Set an iron post 30 ins. long, 2½ ins. diam. 22 ins. in the ground, and in a collar of stone, with brass cap mkd. T12S R16W 1/16 S4 | S3 8 0 1960
	Cont. over nearly level desert land.
89.27	Intersect the S. bdy. of T. 11 S., R. 16 W.
	Point for the closing 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. T11S S34 S4 | S3 C.C T12S R16W 1960
	From this closing cor. the cor. of secs. 33 and 34, T. 11 S., R. 16 W. bears N. 89° 21' W. 0.86 chs. dist.

Portion of the Subdivision T. 12 S., R. 16 W.

Chains	
	Land, nearly level Soil, sandy clay Timber, none Undergrowth, shadscale.
	From the cor. of secs. 1, 6, 7 and 12 on the E. bdy. of the Tp. on a line connecting with the cor. of secs. 3, 4, 9 and 10, with cors. established at prop. distance.
	West, bet. secs. 1 and 12.
	Over rolling desert land draining NW.
26.00	Small wash, drains N. asc. 35 ft. over NE. slope.
39.96	Point for the ¼ sec. cor. of secs. 1 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 3 ft. base to top, with brass cap mkd. T12S R16W ¼ S1 / S12 1960
	Asc. 80 ft. over NE. slope, covered with black boulders.
79.92	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, to bedrock and in a mound of stone 3 ft. base to top, with brass cap mkd. T12S R16W S2 | S1 S11 | S12 1960
	Cor. falls on top of rocky spur which slopes N.
	Land, rolling E. portion, broken W. portion. Soil, clay E. portion, gravelly and rocky W. portion. Timber, none Undergrowth, shadscale and black brush.
	West, bet. secs. 2 and 11.
	Over hilly desert land, desc. 95 ft. over NW. slope.
39.96	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, and in a collar of stone, with brass cap mkd. T12S R16W ¼ S2 / S11 1960
	Desc. 60 ft. over NW. slope.
79.92	Point for the cor. of secs. 2, 3, 10 and 11.
	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.

Portion of the Subdivision of T. 12 S., R. 16 W.

Chains	
	T12S R16W S3 | S2 S10 | S11 1960 Cor. falls on E. bank of wash area 1 ch. wide, draining NW. Land, hilly Soil, gravelly with scattered black boulders Timber, none Undergrowth, shadscale
	West, bet. secs. 3 and 10. Over gently rolling desert land, desc. 20 ft. over gentle W. slope.
29.60	Graded dirt road, Fish Springs to Trout Creek, bears NE. and SW., desc. 20 ft. over gentle W. slope.
39.96	Point for the ¼ sec. cor. of secs. 3 and 10. Set an iron post 30 ins. long, 2½ ins. diam. 24 ins. in the ground, with brass cap mkd. T12S R16W ¼ S3 S10 Raised mound of stone 3 ft. base, 2 ft. high N. of cor. Desc. 20 ft. over gentle W. slope.
79.92	The cor. of secs. 3, 4, 9 and 10. Land, gently rolling Soil, sandy clay Timber, none Undergrowth, shadscale.
	From the cor. of secs. 1, 2, 11 and 12. N. 0° 01' W. bet. secs. 1 and 2. Over hilly desert land covered with black boulders, desc. 200 ft. over N. slope of spur which slopes N.
37.40	Base of spur, bears SE. and SW. desc. gentle N. slope. Leave hills.
40.00	Point for the ¼ sec. cor. of secs. 1 and 2. Set an iron post 30 ins. long, 2½ ins. diam. 15 ins. in the ground, to bedrock, and in a mound of stone 3 ft. base to top, with brass cap mkd. T12S R16W ¼ S2 | S1 1960 Desc. 50 ft. over gentle N. slope.
69.60	Bulldozed road, bears NE. and SW., desc. 15 ft. over gentle N. slope.
78.30	Graded gravel road, Fish Springs to Trout Creek, bears NE. and SW.

Portion of the Subdivision of T. 12 S., R. 16 W.

Chains	
80.00	Point for the 1/16 sec. cor. of secs. 1 and 2. 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. T12S R16W 1/16 S2|S1 8 0 1960 Cont. over rolling desert land.
87.92	Intersect the S. bdy. of T. 11 S., R. 16 W. Point for the closing cor. of secs. 1 and 2. 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. T11S S35 S2|S1 C C T12S R16W 1960 From this closing cor. the cor. of secs. 35 and 36, T. 11 S., R. 16 W. bears S. 89° 37' E. 4.52 chs. dist. Land, hilly S. portion, rolling N. portion Soil, gravelly and rocky S. portion, sandy clay N. portion. Timber, none Undergrowth, shadscale and black brush.
	Point for the ¼ sec. cor. of sec. 1 is at midpoint on the N. bdy. of sec. 1, T 12 S., R. 16 W. Set an iron post 30 ins. long, 2½ ins. diam. 24 ins. in the ground, with brass cap mkd. T11S ¼ S1 T12S R16W 1960 Raise mound of stone 2½ ft. base, 2 ft. high S. of cor. From this ¼ sec. cor. the s¼ sec. cor. of sec. 36, T. 11 S., R. 16 W. bears S. 89° 41' E. 6.20 chs. dist.
	From the cor. of secs. 2, 3, 10 and 11. N. 0° 01' W. bet. secs. 2 and 3. Over gently rolling desert land, desc. 30 ft. over NW. slope.
22.50	Graded road, Fish Springs to Trout Creek, bears NE. and SW., desc. 30 ft. over gentle NW. slope.
40.00	Point for the ¼ sec. cor. of secs. 2 and 3. 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.

U. S. GOVERNMENT PRINTING OFFICE 16—88620-2

Portion of the Subdivision T. 12 S., R. 16 W.

Chains	
	T12S R16W ¼ S3 | S2 1960 Desc. 50 ft. over gentle NW. slope.
80.00	Point for the 1/16 cor. of secs. 2 and 3. 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. T12S R16W 1/16 S3 | S2 8 0 1960
88.57	Intersect the S. bdy. of T. 11 S., R. 16 W. Point for the closing cor. of secs. 2 and 3. 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. T11S S34 S3 | S2 C C T12S R16W 1960 From this closing cor. the cor. of secs. 34 and 35, T. 11 S., R. 16 W. bears S. 89° 40' E. 1.08 chs. dist. Land, rolling Soil, sandy clay with some gravel spots. Timber, none Undergrowth, shadscale
	Point for the ¼ sec. cor. of 2 is at midpoint on the N. bdy. of Sec. 2, T 12 S., R. 16 W. Set an iron post 30 ins. long, 2½ ins. diam. 24 ins. in the ground, with brass cap mkd. T11S ¼ S2 T12S R16W 1960 Raise a mound of stone 2½ ft. base, 2 ft. high S. of cor. From this ¼ sec. cor. the S¼ sec. cor. of sec. 35, T. 11 S., R. 16 W. bears S. 89° 18' E. 2.68 chs. dist.
	Point for the ¼ sec. cor. of sec. 3 is at midpoint on the N. bdy. of sec. 3, T 12 S., R. 16 W. 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.

100

Portion of the Subdivision T. 12 S., R. 16 W.

Chains	
	T11S ¼ S3 T12S R16W 1960
	From this ¼ sec. cor. the S¼ sec. cor. of sec. 34, T. 11 S., R. 16 W. bears S. 89° 21' E., .335 chs. dist.
	From the cor. of secs. 15, 16, 21 and 22.
	West, bet. secs. 16 and 21.
	Over gently rolling desert land, desc. over NW. slope.
2.40	Graded road, Sand Pass to Callao, which bears NW. and SE., 30 ft. over gentle NW. slope.
40.00	Point for the ¼ sec. cor. of secs. 16 and 21.
	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.
	T12S R16W ¼ S16 S21 1960
	Desc. 45 ft. over gentle NW. slope.
80.00	Point for the cor. of secs. 16, 17, 20 and 21.
	Set an iron post 30 ins. long, 2½ ins. diam. 18 ins. in the ground to bedrock and in a mound of stone 3 ft. base to top, with brass cap mkd.
	T12S R16W S17 | S16 S20 | S21 1960
	Land, rolling Soil, sandy clay gravel spots E. portion. Timber, none Undergrowth, shadscale
	N. 0° 03' W. bet. secs. 16 and 17.
	Over gently rolling desert land draining NW.
16.00	Graded dirt road, Fish Springs to Trout Creek, bears SW. and NE.
40.00	Point for the ¼ sec. cor. of secs. 16 and 17.
	Set an iron post 30 ins. long, 2½ ins. diam. 23 ins. in the ground, and in a collar of stone, with brass cap mkd.
	T12S R16W ¼ S17 | S16 1960
	Desc. 15 ft. over gentle NW. slope.
80.00	Point for the cor. of secs. 8, 9, 16 and 17.

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

Chains	
	Set an iron post 30 ins. long, 2½ ins. diam. 24 ins. in the ground, with brass cap mkd. T12S R16W S8 | S9 S17 | S16 1960 Raised mound of stone 2½ ft. base, 2 ft. high W. of cor. Land, rolling Soil, sandy clay Timber, none Undergrowth, shadscale
	From the cor. of secs. 9, 10, 15 and 16. West, bet. secs. 9 and 16. Over gently rolling desert land, desc. 45 ft. over gentle NW. slope.
33.50	Graded dirt road, Fish Springs to Trout Creet, bears SW. and NE. desc. 10 ft. over gentle NW. slope.
40.00	Point for the ¼ sec. cor. of secs. 9 and 16.
	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. T12S R16W ¼ S 9 S16 1960 Desc. 20 ft. over gentle NW. slope.
63.50	Graded dirt road, Sand Pass to Callao, which bears NW. and SE., desc. 15 ft. over gentle NW. slope.
80.00	The cor. of secs. 8, 9, 16 and 17. Land, rolling Soil, sandy clay Timber, none Undergrowth, shadscale
	From the cor. of secs. 4, 5, 32 and 33, on the S. bdy. of the Tp. monumented by an iron post 2½ ins. diam., set, mkd., and witnessed as described in the field notes of the concurrent survey of T. 13 S., R. 16 W. N. 0° 03' W. bet. secs. 32 and 33. Over broken desert land covered with black lava rock, along W. slope.
4.20	Small ravine, drains W., cont. along rocky W. slope.
33.40	Top of small terrace, bears NE. and SW., desc. 50 ft. over NW. slope of terrace.
40.00	Point for the ¼ sec. cor. of secs. 32 and 33. 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.

Portion of the Subdi T. R.

Chains

T12S R16W
¼
S32|S33
1960

Cor. falls near base of terrace, desc. 25 ft. over gentle NW. slope.

68.30 Small wash, drains NW.

80.00 Point for the cor. of secs. 28, 29, 32 and 33.

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

T12S R16W
S29|S28
S32|S33
1960

Land, broken to rolling
Soil, gravelly, covered with rocks S. portion
Timber, none
Undergrowth, shadscale.

From the cor. of secs. 5, 6, 31 and 32 on the S. bdy. of the Tp. monumented by an iron post 2½ ins. diam. set, mkd., and witnessed as described in the field notes of the concurrent survey of T. 13 S., R. 16 W.

N. 0° 03' W. bet. secs. 31 and 32.

Over gently rolling desert land, draining NW.

13.20 Wash, 2 ft. deep, 30 lks. wide, drains NW.

40.00 Point for the ¼ sec. cor. of secs. 31 and 32.

Set an iron post 30 ins. long, 2½ ins. diam. 16 ins. in the ground, to bedrock and in a mound of stone 3 ft. base to top, with brass cap mkd.

T12S R16W
¼
S31|S32
1960

Desc. 30 ft. over NW. slope.

77.80 Wash, 2 ft. deep, 20 lks. wide, drains NW.

80.00 Point for the cor. of secs. 29, 30, 31 and 32.

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.

T12S R16W
S30|S29
S31|S32
1960

Land, rolling
Soil, sandy clay
Timber, none
Undergrowth, shadscale

portion of the Subdivision T. 12 S., R. 16 W.

Chains	
	From the cor. of secs. 28, 29, 32 and 33.
	N. 89°59' W. bet. secs. 29 and 32.
	Over gently rolling desert land, desc. 10 ft. over NW. slope.
9.00	Wash, 2 ft. deep, 30 lks. wide, drains NW., desc. 30 ft. over NW. slope.
39.95	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, and in a collar of stone, with brass cap mkd.
	T12S R16W ¼ S29/S32 1960
	Desc. 10 ft. over NW. slope.
48.50	Wash, 3 ft. deep, 20 lks. wide, drains NW., desc. 30 ft. over NW. slope.
79.90	The cor. of secs. 29, 30, 31 and 32.
	Land, rolling Soil, sandy clay, gravel spots E. portion Timber, none Undergrowth, shadscale

GENERAL DESCRIPTION

The NW. portion of T. 12 S., R. 16 W. consists of rolling desert land, the SW. portion is rolling desert land with scattered low hills. The soil is sandy clay on the rolling land, and gravelly with black lava rocks on the hills. The vegetation consists almost entirely of shadscale and with a few scattered sage brush, there is no timber.

The main roads consist of two graded gravel roads, one from Fish Springs to Trout Creek enters the township on the N. bdy. of Sec. 1, bears SW. and leaves the township on the E. bdy. of sec. 30. The other road, Sand Pass to Thomas Creek, enters the township on the S. bdy. of sec. 36, bears NW. and leaves the township on the E. bdy. of sec. 6. Most of the township can be travelled with 4 wheel drive vehicle.

The elevation varies from about 4600 to 5400 ft. above sea level.

No permanent water or other developments were noted within the township.

Chains	

4-680
(Feb., 1950)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FIELD ASSISTANTS

NAMES	CAPACITY
Donald A. Cannon	Crew Chief (Cornerman)
James R. Munson	Transit
Jeddie J. Judd	Notes
John D. Carter	Front Chain
Dennis D. Bland	Flagman

16—53565-2

106

CERTIFICATE OF CADASTRAL ENGINEER

I, Craig P. Sylvester, HEREBY CERTIFY upon honor that, in pursuance of special instructions bearing date of the 25th day of August, 1936
Supplemental Special Instructions 11th May 1959
I have ~~surveyed~~ dependently resurveyed the East Boundary of Township 12 South, Range 17 West, dependently resurveyed the South Boundary of Township 11 South, Range 16 West, surveyed the East Boundary and portion of the Subdivision of Township 12 South, Range 16 West.

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 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 12, 1961

Craig P. Sylvester

Craig P. Sylvester, Cadastral Surveyor

CERTIFICATE OF APPROVAL

BUREAU OF LAND MANAGEMENT,

Washington, D. C., APR 17 1962, *19*

The foregoing field notes of the ~~survey of~~ Dependent Resurvey of the East Bdy. of T. 12 S., R. 17 W., dependent resurvey of the South Bdy. of T. 11 S., R. 16 W., survey of the East Bdy. and portion of the Subdivision of T. 12 S., R. 16 W.

executed by Craig P. Sylvester, Cadastral Surveyor

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

E. E. Lemmington

~~Cadastral Engineering Staff Officer~~

Chief, Division of Engineering

CERTIFICATE OF TRANSCRIPT

[illegible], is a true copy of the original [illegible]

[illegible]

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

4—GTO
September 1961)

107

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

ORIGINAL

FIELD NOTES

OF THE

SURVEY

OF THE NORTH BOUNDARY

AND A PORTION OF THE SUBDIVISION

OF

TOWNSHIP 13 SOUTH, RANGE 15 WEST

Of the Salt Lake *Meridian,*

n the State of Utah

EXECUTED BY

Craig P. Sylvester, Cadastral Surveyor (Chief of Party)

Donald A. Cannon, Cadastral Surveyor

'nder special instructions dated August 25 *, 19* 36 *, which provided*
Supplemental Special Instructions May 11 1959
or the surveys included under Group No. 280 *, approved* May 12, 1959

nd assignment instructions dated April 28 *, 19* 60

Survey commenced June 1 *, 19* 60

Survey completed June 8 *, 19* 60

INDEX DIAGRAM

Township 13 South, *Range* 15 West

5 6	4 5	3 4	3 10 3	2 13 2	1 12 1
7	8	9	12 9 10	11 11	11 12
18	17	15 14 16	9 15	14	13
19	20	13 21	8 22	23	24
30	29	28	8 27	26	25
31	17 16 32	15 33	7 34	35	6 5 36

GPO 866119

Township 13 South, Range 15 West

Chains

The south boundary was surveyed by A. D. Griffin and Craig P. Sylvester in 1959. The east boundary was surveyed by J. Gorlinski in 1880 and independently resurveyed by Elliot Bird in 1948. The west boundary was surveyed concurrently and shows in the field notes of T. 13 S., R. 16 W.

The following field notes are those of a survey of the north boundary and a portion of the subdivision, deemed sufficient in extent to facilitate development of the natural resources and mark the boundaries of those sections that are normally considered state school sections.

The survey was executed with W. & L. E. Gurley solar transit No. 541331, 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.

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° 38' 22.18" N. and longitude 113° 28' 18.90" W. as adjusted from traverses to U.S.G.S. triangulation station "Fish."

The magnetic declination was read at a number of stations throughout the township and the average of these readings was found to be 16° 30' East.

Survey of the North Boundary of T. 13 S., R. 15 W.

Beginning at the cor. of Tps. 12 and 13 S., Rs. 14 and 15 W., mkd. by an iron post, 3 ins. diam., set, mkd. and witnessed as described in the official record.

S. 89° 55' W., bet. secs. 1 and 36.

Over rolling desert land on E. side of Snake Valley; desc. 210 ft. over gentle W. slope.

Survey N. Bdy. T. 13 S. R. 15 W.

Chains	
40.00	Point for the ¼ sec. cor. of secs. 1 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.
	T12S R15W ¼ S36 / S 1 T13S 1960
	Desc. 130 ft. over gentle 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., 14 ins. in the ground and in a mound of stone, 3 ft. base, to top, with brass cap mkd.
	T12S R15W S35 | S36 S 2 | S 1 T13S 1960
	Land, rolling desert. Soil, rocky clay. Timber, none. Undergrowth, shadscale, blackbrush and scattered bunch grass.
	S. 89° 55' W., bet. secs. 2 and 35.
	Over rolling desert land; desc. gentle W. slope.
40.00	Point for the ¼ sec. cor. of secs. 2 and 35.
	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.
	T12S R15W ¼ S35 / S 2 T13S 1960
	Raise a mound of stone, 2½ ft. base, 2 ft. high N. of iron post.
	Desc. 10 ft. over W. slope.
50.00	Wash, 20 lks. wide, 2 ft. deep, drains SW.; asc. 45 ft. over SE. slope.
54.90	Low spur, slopes SW.; desc. 65 ft. over gentle W. slope.
67.00	Same wash, drains NW.; asc. 65 ft. over E. slope.
69.70	Low spur, slopes N.; desc. 80 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., 24 ins. in the ground, with brass cap mkd.

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Chains	
	T12S R15W S34 | S35 S 3 | S 2 T13S 1960 Raise a mound of stone, 2½ ft. base, 2 ft. high, W. of iron post. Land, rolling to slightly broken. Soil, rocky clay. Timber, none. Undergrowth, shadscale, sage and blackbrush.
	S. 89° 55' W., bet. secs. 3 and 34. Over rolling desert land; desc. 100 ft. over gentle W. slope.
40.00	Point for the ¼ sec. cor. of secs. 3 and 34. Set an iron post, 30 ins. long, 2½ ins. diam., 24 ins. in the ground, with brass cap mkd. T12S R15W ¼ S34 S 3 T13S 1960. Raise a mound of stone, 2 ft. base, 2 ft. high, N. of iron post. Desc. 40 ft. over gentle W. slope.
59.90	Unimproved road, bears SW. and NE.; desc. gentle W. slope.
80.00	Point for the cor. of secs. 3, 4, 33 and 34. Set an iron post, 30 ins. long, 2½ ins. diam., 24 ins. in the ground, with brass cap mkd. T12S R15W S33 | S34 S 4 | S 3 T13S 1960 Raise a mound of stone, 2½ ft. base, 2 ft. high, W. of iron post. Land, rolling desert. Soil, clay with gravel and rocky spots. Timber, none. Undergrowth, shadscale, blackbrush, sage.
	S. 89° 55' W., bet. secs. 4 and 33. Over rolling desert land of Snake Valley, over gentle W. slope.
40.00	Point for the ¼ sec. cor. of secs. 4 and 33.

Survey, N. Bdy., T. 13 S., R. 15 W.

Chains	
	Set an iron post, 30 ins. long, 2½ ins. diam., 24 ins. in the ground, with brass cap mkd.
	T12S R15W ¼ S33/S 4 T13S 1960
	No other accessories available.
	Cont. over gently rolling bottom land.
68.40	Trail road, bears NW. and SE.; asc. gentle 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., 24 ins. in the ground, with brass cap mkd.
	T12S R15W S32 | S33 S 5 | S 4 T13S 1960
	Raise a mound of stone, 2 ft. base, 2 ft. high, W. of iron post.
	Land, rolling desert. Soil, clay and sand. Timber, none. Undergrowth, shadscale, sage and blackbrush.
	S. 89° 55' W., bet. secs. 5 and 32.
	Over rolling desert land; asc. 70 ft. over gentle NW. slope.
35.00	Shallow wash, drains N. 10° E.; cont. over gentle NW. slope.
40.00	Point for the ¼ sec. cor. of secs. 5 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.
	T12S R15W ¼ S32/S 5 T13S. 1960
	Asc. 50 ft. over gentle NW. slope.
80.00	Point for the cor. of secs. 5, 6, 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.
	T12S R15W S31 | S32 S 6 | S 5 T13S 1960

Survey, N. Bdy., T. 13 S., R. 15 W.

Chains	
	Land, rolling to slightly broken. Soil, clay, rocky on W. portion. Timber, none. Undergrowth, shadscale and scattered bunch grass.
	S. 89° 55' W., bet. secs. 6 and 31.
	Over slightly broken desert land; asc. 100 ft. over NW. slope.
40.00	Point for the ¼ sec. cor. of secs. 6 and 31.
	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. T12S R15W ¼ S31 S 6 T13S 1960
	Asc. NW. slope.
48.00	Slope changes; asc. 280 ft. over E. slope.
70.80	Crest of low ridge, bears N. and S. irregularly; desc. 80 ft. over W. slope.
77.87	The cor. of Tps. 12 and 13 S., Rs. 15 and 16 W., mkd. by an iron post, 2½ ins. diam., described in the field notes of T. 13 S., R. 16 W., concurrently surveyed.
	Land, rolling to broken on the W. portion. Soil, rocky clay. Timber, none. Undergrowth, shadscale, sage, blackbrush and scattered bunch grass.
	Survey of a Portion of the Subdivision of T. 13 S., R. 15 W.
	From the cor. of secs. 1, 2, 35 and 36 on the S. bdy. of the Tp., mkd. by an iron post, 2½ ins. diam., set, mkd. and witnessed as described in the official record.
	N. 0° 01' W., bet. secs. 35 and 36.
	Over slightly broken desert land; desc. 10 ft. over NW. slope.
8.70	Wash, 20 lks. wide, 3 ft. deep, drains W.; asc. 20 ft. over gentle SW. slope.
22.10	Low spur, slopes W.; desc. 15 ft. over gentle N. slope.
24.00	Small draw, drains W.; asc. 20 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., 6 ins. in the ground and in a mound of stone, 4 ft. base, to top, with brass cap mkd.

Survey Portion of Subdivis T. 13 S. R. 15 W.

Chains	
	T13S R15W ¼ S35 | S36 1959
	Asc. 30 ft. over gentle SW. slope.
54.50	Small wash, drains SW.; cont. along gentle SW. slope.
66.50	Small wash, drains SW.; asc. 20 ft. over gentle SW. slope.
76.50	Trail road, bears NE. and SW.
78.50	Small wash, drains SW.; asc. over SW. slope.
80.00	Point for the cor. of secs. 25, 26, 35 and 36.
	Set an iron post, 30 ins. long, 2½ ins. diam., 24 ins. in the ground, with brass cap mkd.
	T13S R15W S26 | S25 S35 | S36 1959
	Raise a mound of stone, 2 ft. base, 2 ft. high, W. of iron post.
	Land, slightly broken. Soil, sand, clay, gravel and rock. Timber, none. Undergrowth, shadscale, blackbrush and bunch grass.
	From the cor. of secs. 25, 30, 31 and 36 on the E. bdy. of the Tp., mkd. by an iron post, 3 ins. diam., set, mkd. and witnessed as described in the official record.
	S. 89° 57' W., bet. secs. 25 and 36.
	Over slightly broken desert land; desc. 75 ft. over gentle SW. slope.
19.70	Small wash, drains SW.; desc. 80 ft. over gentle SW. slope.
39.97	Point for the ¼ sec. cor. of secs. 25 and 36.
	Set an iron post, 30 ins. long, 2½ ins. diam., 24 ins. in the ground, with brass cap mkd.
	T13S R15W S25 ¼ S36 1959
	Raise a mound of stone, 2½ ft. base, 2 ft. high, N. of iron post.
	Desc. 70 ft. over gentle SW. slope.
60.50	Wash, 30 lks. wide, 3 ft. deep, drains SW.; desc. 10 ft. over gentle SW. slope.
64.30	Small wash, drains SW.; desc. 25 ft. over gentle SW. slope.

Survey, Portion of Subdivision, T. 13 S., R. 15 W.

Chains	
76.40	Unimproved road, bears SW. and NE.
79.94	The cor. of secs. 25, 26, 35 and 36.
	Land, slightly broken. Soil, sand and clay; rocky in spots. Timber, none. Undergrowth, shadscale, blackbrush and scattered bunch grass.
	From the cor. of secs. 3, 4, 33 and 34 on the S. bdy. of the Tp., mkd. by an iron post, 2½ ins. diam., set, mkd. and witnessed as described in the official record.
	N. 0° 02' W., bet. secs. 33 and 34.
	Over rolling desert land, drains E.; desc. 20 ft. along gentle E. slope.
32.00	Wash, 80 lks. wide, 2 ft. deep, drains E.; cont. along gentle E. slope.
36.60	Wash, 40 lks. wide, 3 ft. deep, drains E.; desc. along gentle E. slope.
40.00	Point for the ¼ sec. cor. of secs. 33 and 34.
	Set an iron post, 30 ins. long, 2½ ins. diam., 24 ins. in the ground, with brass cap mkd. T13S R15W ¼ S33 | S34 1960
	No accessories available.
	Cont. along gentle E. slope.
40.40	Old road, bears E. and W.
46.00	Graded road, Sand Pass to Callao, bears N. 42° W., S. 42° E.; desc. 40 ft. along gentle E. slope.
72.00	Small wash, drains E.; cont. along gentle E. slope.
78.00	Small wash, drains E.; cont. along gentle E. slope.
80.00	Point for the cor. of secs. 27, 28, 33 and 34.
	Set an iron post, 30 ins. long, 2½ ins. diam., 24 ins. in the ground, with brass cap mkd. T13S R15W S28 | S27 S33 | S34 1960
	No accessories available.
	Land, rolling. Soil, sand and clay. Timber, none. Undergrowth, shadscale, blackbrush and scattered bunch grass.

Surve Portion of Subd T. 13 S. R. 15 W.

Chains	
	N. 0° 02' W., bet. secs. 27 and 28.
	Over rolling desert land, drains E.; desc. 20 ft. along gentle E. slope.
27.70	Small wash, drains E.; cont. along gentle E. slope.
33.00	Graded road, bears E. and W. irregularly; cont. along gentle E. slope.
40.00	Point for the ¼ sec. cor. of secs. 27 and 28.
	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. T13S R15W ¼ S28 | S27 1960
	Desc. 40 ft. along gentle E. slope.
56.50	Small wash, drains E.; cont. along gentle E. slope.
68.00	Small wash, drains E.; cont. along gentle E. slope.
77.40	Trail road, bears SW. and NE.
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 mound of stone, 3 ft. base, to top, with brass cap mkd. T13S R15W S21 | S22 S28 | S27 1960
	Land, rolling desert. Soil, clay, rock. Timber, none. Undergrowth, shadscale and blackbrush.
	N. 0° 02' W., bet. secs. 21 and 22.
	Over rolling desert land, drains E.; desc. 10 ft. along gentle E. slope.
40.00	Point for the ¼ sec. cor. of secs. 21 and 22.
	Set an iron post, 30 ins. long, 2½ ins. diam., 24 ins. in the ground, with brass cap mkd. T13S R15W ¼ S21 | S22 1960
	No accessories available.
	Cont. along gentle E. slope.
51.40	Bulldozed road, bears NE. and SW.
62.00	Small wash, drains E.; cont. along gentle E. slope.
80.00	Point for the cor. of secs. 15, 16, 21 and 22.

Survey, Portion of Subdivision, T. 13 S., R. 15 W.

Chains	
	Set an iron post, 30 ins. long, 2½ ins. diam., 24 ins. in the ground, with brass cap mkd. T13S R15W S16 | S15 S21 | S22 1960 No accessories available. Land, rolling. Soil, sandy clay. Timber, none. Undergrowth, shadscale and sage.
	N. 0° 02' W., bet. secs. 15 and 16. Over rolling desert land, covered with shadscale.
40.00	Point for the ¼ sec. cor. of secs. 15 and 16. Set an iron post, 30 ins. long, 2½ ins. diam., 24 ins. in the ground, with brass cap mkd. T13S R15W ¼ S16 | S15 1960 No accessories available. Cont. along gentle E. slope.
52.80	Wash, 15 lks. wide, 4 ft. deep, drains S. 20° E.; asc. along gentle 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., 24 ins. in the ground, with brass cap mkd. T13S R15W S 9 | S10 S16 | S15 1960 No accessories available. Land, rolling to nearly level. Soil, sand and clay. Timber, none. Undergrowth, shadscale and sage.
	N. 0° 02' W., bet. secs. 9 and 10. Over rolling desert land, draining W., along gentle W. slope.
40.00	Point for the ¼ sec. cor. of secs. 9 and 10.

Portion of T. 13 S. R. 15 W.

Chains

Set an iron post, 30 ins. long, 2½ ins. diam., 24 ins. in the ground, with brass cap mkd.

T13S R15W
¼
S 9|S10
1960

No accessories available.

Cont. along gentle W. slope.

60.50 Wash, 30 lks. wide, 2 ft. deep, drains W. from N. irregularly; cont. along gentle 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., 24 ins. in the ground, with brass cap mkd.

T13S R15W
S 4|S 3
S 9|S10
1960

No accessories available.

Land, nearly level.
Soil, clay.
Timber, none.
Undergrowth, shadscale and sage.

N. 0° 15' W., bet. secs. 3 and 4.

Over rolling desert land, along gentle W. slope.

17.00 Unimproved road, bears NW. and SE.; cont. along gentle W. slope.

18.60 Wash, 30 lks. wide, 3 ft. deep, drains SE. from N. irregularly; cont. along gentle W. slope.

28.10 Same wash, drains SW.; cont. along gentle W. slope.

28.80 Unimproved road, bears NE. and SW.; cont. along gentle W. slope.

40.00 Point for the 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.

T13S R15W
¼
S 4|S 3
1960

Cont. along gentle W. slope.

79.98 The cor. of secs. 3, 4, 33 and 34 on the N. bdy.

Land, nearly level.
Soil, clay.
Timber, none.
Undergrowth, shadscale, blackbrush and sage.

Survey, Portion of Subdivision, T. 13 S., R. 15 W.

Chains	
	From the cor. of secs. 1, 6, 7 and 12 on the E. bdy. of the Tp., mkd. by an iron post, set, mkd. and witnessed as described in the official record.
	S. 89° 54' W., bet. secs. 1 and 12.
	Over slightly broken desert land on the W. slopes of Fish Spring Mountain; desc. 90 ft. over W. slope.
11.00	Wash, 40 lks. wide, 2 ft. deep, drains W. irregularly; desc. 140 ft. over W. slope.
39.93	Point for the ¼ sec. cor. of secs. 1 and 12, at proportionate dist.
	Set an iron post, 30 ins. long, 2½ ins. diam., 24 ins. in the ground, with brass cap mkd.
	T13S R15W ¼ S 1 / S12 1960
	Raise a mound of stone, 3 ft. base, 2 ft. high, N. of iron post.
	Desc. 200 ft. over W. slope.
68.60	Small wash, drains SW.; desc. 45 ft. over W. slope.
79.86	Point for the cor. of secs. 1, 2, 11 and 12, at proportionate dist.
	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.
	T13S R15W S 2 | S 1 S11 | S12 1960
	Land, slightly broken. Soil, rocky clay and sand. Timber, very scattered scrub juniper. Undergrowth, shadscale, sage, blackbrush and scattered bunch grass.
	S. 89° 54' W., bet. secs. 2 and 11.
	Over slightly broken desert land, draining W.; desc. 125 ft. over W. slope.
20.80	Small wash, drains SW.; desc. 65 ft. over W. slope.
39.93	Point for the ¼ sec. cor. of secs. 2 and 11, at proportionate dist.
	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.
	T13S R15W ¼ S 2 / S11 1960
	Desc. 20 ft. over W. slope.
52.00	Wash, 40 lks. wide, 2 ft. deep, drains S.; asc. 30 ft. over E. slope of rise.

Survey, Portion of Subdivision, T. 13 S., R. 15 W.

Chains	
62.30	Rise, bears N. and S. irregularly; desc. 15 ft. over gentle W. slope.
79.86	Point for the cor. of secs. 2, 3, 10 and 11, at proportionate dist.
	Set an iron post, 30 ins. long, 2½ ins. diam., 24 ins. in the ground, with brass cap mkd.
	T13S R15W S 3 | S 2 S10 | S11 1960
	Raise a mound of stone, 2½ ft. base, 2 ft. high, W. of iron post.
	Land, slightly broken. Soil, clay and sand with rocky spots. Timber, none. Undergrowth, shadscale, sage and blackbrush.
	S. 89° 54' W., bet. secs. 3 and 10.
	Over slightly broken desert land; desc. 50 ft. over W. slope.
34.00	Small wash, drains S. 20° W.; desc. over SW. slope.
39.93	Point for the ¼ sec. cor. of secs. 3 and 10, at proportionate dist.
	Set an iron post, 30 ins. long, 2½ ins. diam., 24 ins. in the ground, with brass cap mkd.
	T13S R15W ¼ S 3 S10 1960
	No accessories available.
	Cont. over SW. slope.
47.70	Gully, drains S.; cont. along S. slope.
66.60	Crest of terrace, bears N. and SE.; desc. 110 ft. over W. slope.
72.00	Base of same terrace, bears N. and SE., thence over nearly level bottom land.
76.50	Trail road, bears N. and S.
78.50	Wash, 40 lks. wide, 3 ft. deep, drains S.
79.86	The cor. of secs. 3, 4, 9 and 10.
	Land, slightly broken to rolling. Soil, clay and sand; rocky in spots. Timber, none. Undergrowth, shadscale and blackbrush.
	From the cor. of secs. 1, 2, 11 and 12.
	N. 0° 08' W., bet. secs. 1 and 2.
	Over slightly broken desert land, along W. slope.

Survey, Portion of Subdivision, T. 13 S., R. 15 W.

Chains	
14.60	Wash, 10 lks. wide, 2 ft. deep, drains W.; cont. along W. slope.
21.40	Wash, 20 lks. wide, 2 ft. deep, drains W.; cont. along W. slope.
31.10	Small wash, drains W.; cont. along W. slope.
40.00	Point for the ¼ sec. cor. of secs. 1 and 2.
	Set an iron post, 30 ins. long, 2½ ins. diam., 24 ins. in the ground, with brass cap mkd.
	T13S R15W ¼ S 2 | S 1 1960
	Raise a mound of stone, 2 ft. base, 2 ft. high, W. of iron post.
	Cont. along W. slope.
79.98	The cor. of secs. 1, 2, 35 and 36 on the N. bdy.
	Land, slightly broken W. slope. Soil, rocky sand and clay. Timber, few scrub juniper. Undergrowth, sage, shadscale, blackbrush and scattered bunch grass.
	From the cor. of secs. 2, 3, 10 and 11.
	N. 0° 09' W., bet. secs. 2 and 3.
	Over rolling desert land, along gentle W. slope.
40.00	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 ground and in a mound of stone, 2½ ft. base, to top, with brass cap mkd.
	T13S R15W ¼ S 3 | S 2 1960
	Cont. along gentle W. slope.
79.98	The cor. of secs. 3, 4, 34 and 35.
	Land, slightly broken W. slope. Soil, clay, gravel spots. Timber, none. Undergrowth, shadscale, sage and scattered bunch grass.
	From the cor. of secs. 15, 16, 21 and 22. S. 89° 59' W., bet. secs. 16 and 21. Over nearly level desert land, draining E.
16.00	Bulldozed road, bears NW. and SE.
40.00	Point for the ¼ sec. cor. of secs. 16 and 21.

Portion of T. 13 S., R. 15 W.

Chains	
	Set an iron post, 30 ins. long, 2½ ins. diam., 24 ins. in the ground, with brass cap mkd. T13S R15W ¼ S16/S21 1960
	No accessories available.
	Cont. over nearly level land, draining E.
72.00	Base of terrace, bears NW. and S.; asc. 65 ft. over 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., 20 ins. in the ground and in a collar of stone, with brass cap mkd. T13S R15W S17 | S16 S20 | S21 1960
	Raise a mound of stone, 2½ ft. base, 2 ft. high, W. of iron post.
	Land, nearly level. Soil, clay. Timber, none. Undergrowth, shadscale, sage and blackbrush.
	N. 0° 03' W., bet. secs. 16 and 17.
	Over rolling desert land; desc. 70 ft. over NE. slope of small terrace.
10.00	Base of terrace, bears NW. and SE., thence along gentle E. slope.
14.00	Wash, 30 lks. wide, 5 ft. deep, drains E.; cont. along gentle 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., 10 ins. in the ground and in a mound of stone, 3 ft. base, to top, with brass cap mkd. T13S R15W ¼ S17 | S16 1960
	Cont. along gentle E. slope.
80.00	Point for the cor. of secs. 8, 9, 16 and 17.
	Set an iron post, 30 ins. long, 2½ ins. diam., 24 ins. in the ground, with brass cap mkd. T13S R15W S 8 | S 9 S17 | S16 1960
	No accessories available.
	Land, rolling. Soil, clay, rocky in spots. Timber none. Undergrowth, shadscale, sage, blackbrush, bunch grass.

Survey, Portion of Subdivision, T. 13 S., R. 15 W.

Chains	
	From the cor. of secs. 9, 10, 15 and 16.
	West, bet. secs. 9 and 16.
	Over nearly level desert land.
8.00	Wash, 30 lks. wide, 3 ft. deep, drains S.; cont. over level desert land.
40.02	Point for the ¼ sec. cor. of secs. 9 and 16.
	Set an iron post, 30 ins. long, 2½ ins. diam., 24 ins. in the ground, with brass cap mkd.
	T13S R15W ¼ S.9 / S16 1960
	Cont. over level desert land, draining E.
70.20	Bulldozed road, bears NW. and SE.
80.04	The cor. of secs. 8, 9, 16 and 17.
	Land, level. Soil, clay and sand. Timber, none. Undergrowth, shadscale and blackbrush.
	From the cor. of secs. 4, 5, 32 and 33 on the S. bdy. of the Tp., mkd. by an iron post, 2½ ins. diam., set, mkd. and witnessed as described in the official record.
	N. 0° 03' W., bet. secs. 32 and 33.
	Over broken desert land, covered with shadscale and acrub juniper; desc. 10 ft. along E. slope.
17.10	Wash, 30 lks. wide, 2 ft. deep, drains NE.; desc. 20 ft. over NE. slope.
38.90	Wash, 30 lks. wide, 3 ft. deep, drains NE.; cont. 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., 10 ins. in the ground and in a mound of stone, 3½ ft. base, to top, with brass cap mkd.
	T13S R15W ¼ S32 | S33 1960
	Cont. over NE. slope.
48.00	Top of rocky rise, bears E. and W.; desc. 70 ft. over NE. slope.
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.

Portion of T. 13 S. R. 15 W.

Chains

T13S R15W
S29 | S28
S32 | S33
1960

Raise a mound of stone, 3 ft. base, 2 ft. high, W. of iron post.

Land, broken.
Soil, rocky clay and sand.
Timber, scattered scrub juniper.
Undergrowth, sage, shadscale and scattered bunch grass.

From the cor. of secs. 5, 6, 31 and 32 on the S. bdy. of the Tp., mkd by an iron post, 2½ ins. diam., set, mkd. and witnessed as described in the official record.

N. 0° 03' W., bet. secs. 31 and 32.

Over broken desert land, covered with scattered juniper; asc. 25 ft. over S. slope.

1.80 Spur, slopes E.; desc. 60 ft. over NE. slope.

6.30 Draw, drains E.; asc. 80 ft. over S. slope.

11.00 Spur, slopes E.; desc. 120 ft. over N. slope.

17.80 Wash, drains NE.; asc. 40 ft. over SE. slope.

23.00 Spur, slopes NE.; desc. 110 ft. over N. slope.

29.50 Wash, drains N. 70° E.; asc. 10 ft. along broken E. slope.

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

T13S R15W
¼
S31 | S32
1960

Desc. 25 ft. along E. slope.

45.80 Wash, 30 lks. wide, 2 ft. deep, drains E.; desc. 10 ft. along E. slope.

55.40 Wash, 10 lks. wide, 3 ft. deep, drains NE.; desc. 35 ft. over NE. slope.

71.00 Small wash, drains E.; cont. over NE. slope.

80.00 Point for the cor. of secs. 29, 30, 31 and 32.

Set an iron post, 30 ins. long, 2½ ins. diam., 24 ins. in the ground, with brass cap mkd.

T13S R15W
S30 | S29
S31 | S32
1960

Survey, Portion of Subdivision, T. 13 S., R. 15 W.

Chains	
	Raise a mound of stone, 2½ ft. base, 2 ft. high, W. of iron post.
	Land, broken. Soil, rocky sand and clay. Timber, scattered scrub juniper. Undergrowth, sage, shadscale and scattered bunch grass.
	From the cor. of secs. 28, 29, 32 and 33.
	S. 89° 55' W., bet. secs. 29 and 32.
	Over slightly broken desert land, covered with scrub juniper; asc. NE. slope.
3.90	Wash, 1 ch. wide, 2 ft. deep, drains NE.; asc. 100 ft. over gentle NE. slope.
39.97	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. T13S R15W ¼ S29/S32 1960
	Cont. over NE. slope.
40.90	Small wash, drains NE.; asc. 50 ft. over NE. slope.
61.50	Wash, 40 lks. wide, 4 ft. deep, drains NE.; asc. 75 ft. over NE. slope.
79.94	The cor. of secs. 29, 30, 31 and 32.
	Land, slightly broken. Soil, rocky sand and clay. Timber, scattered scrub juniper. Undergrowth, sage, black brush and bunch grass.

General Description

T. 13 S., R. 15 W. consists of rolling to broken desert land. The east boundary bears along the lower west slopes of the Fish Springs Range while the remainder of the township is located in the northeast part of Snake Valley.

A graded gravel road (Sand Pass to Callao) enters the township on the south boundary of section 34, bears northwest and leaves the township on the east boundary of section 7. There are several bulldozed roads branching off this road, leading to winter sheep camps and feed grounds located within the township. With the exception of the hill tops, which are very rocky, the township can be traveled with four-wheel drive vehicle.

The soil is generally clay and sand, and very rocky on the hills.

The only timber consists of a few scrub juniper on the east and south portions of the township. The undergrowth is mainly shadscale, sage, blackbrush and scattered bunch grass.

Chains	
	The elevation varies from about 4,900 to 5,600 feet above sea level.
	No permanent water was noted during the survey.

4-680
(Feb., 1950)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FIELD ASSISTANTS

NAMES	CAPACITY
Donald A. Cannon	Crew Chief (Cornerman)
James R. Munson	Transit
Jeddie J. Judd	Notes
John D. Carter	Front Chain
Dennis D. Bland	Cornerman

16—53565-2

128

CERTIFICATE OF CADASTRAL ENGINEER

I, We, Craig P. Sylvester and Donald A. Cannon, HEREBY CERTIFY upon honor that, in pursuance of special instructions bearing date of the 25th day of August 1936 and supplemental special instructions dated 11th May 1959, we I have surveyed the north boundary and a portion of the subdivision of T. 13 S., R. 15 W.

of the Salt Lake Meridian, in the State of Utah, which are represented in the foregoing field notes as having been executed by ~~me~~ us and under ~~my~~ our 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 11, 1961

Craig P. Sylvester, Cadastral Surveyor

Donald A. Cannon, Cadastral Surveyor

CERTIFICATE OF APPROVAL

BUREAU OF LAND MANAGEMENT,

Washington, D. C., APR 17 1962, *19*

The foregoing field notes of the survey of the north boundary and a portion of the subdivision of T. 13 S., R. 15 W., Salt Lake Meridian, Utah

executed by Craig P. Sylvester, Cadastral Surveyor, Chief of Party, and Donald A. Cannon, 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~~

~~, is a true copy of the original field notes.~~

~~Cadastral Engineering Staff Officer.~~

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

4—679
September 1946)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

ORIGINAL

FIELD NOTES

OF A DEPENDENT RESURVEY

OF THE EAST BOUNDARY

TOWNSHIP 13 SOUTH, RANGE 17 WEST

AND A SURVEY

OF

THE EAST AND NORTH BOUNDARIES

AND

A PORTION OF THE SUBDIVISION

OF TOWNSHIP 13 SOUTH, RANGE 16 WEST

Of the SALT LAKE *Meridian,*

n the State of UTAH

EXECUTED BY

VIRGIL E. SPRATT, Cadastral Surveyor

CRAIG P. SYLVESTER, Cadastral Surveyor (Chief of Party)

Inder special instructions dated August 25, *19* 36, *which provided*
Supplemental Special Instructions May 11, 1959
or the surveys included under Group No. 280, *approved* May 12, 1959

nd assignment instructions dated April 28, *19* 60

Survey commenced June 2, *19* 60

Survey completed June 20, *19* 60

INDEX DIAGRAM

Township 13 SOUTH, *Range* 16 WEST

	14	14	13	13	12	11
6	6	5	4 20	3 21	2 22	1 10
					21	
5	7	8	9 20	10	11	12 10
			24			
4	18	17 23	16 19	15	14	13 9
			23			
4	19	20	21 18	22	23	24 8
3	30	29	28 18	27	26	25 8
		26				16
2	31 25	32 24	33 17	34	35 15	36 7

GPO 866119

Township 13 South, Range 16 West

Chains

The south boundary was surveyed by A. D. Griffin and Craig P. Sylvester in 1959. The west boundary was surveyed by John W. Dougall in 1916.

The following field notes are those of a dependent resurvey of the west boundary, and a survey of the east and north boundaries, and a portion of the subdivision deemed sufficient in extent to facilitate development of the natural resources and mark the boundaries of those sections that are normally considered state school sections.

The survey was executed with W. and L. E. Gurley Solar Transit No. 461625, 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 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.

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 the latitude 39°38'21.91" N. and longitude 113°35'02.03"W. as adjusted from traverses to U. S. G. S. triangulation station "Fish".

The magnetic declination was read at a number of stations throughout the township and the average of these readings was found to be 16°30' East.

The abbreviation I. P. as used herein indicates iron post.

Dependent Resurvey of the E. Bdy. of T. 13 S., R. 17 W.

Chains	
	Dependent resurvey of the East Boundary of Township 13 South, Range 17 West, and the establishment thereon of new corners pertaining to Township 13 South, Range 16 West at latitudinal intervals of 40.00 chains north of the closing corner of Township 13 South, Range 16 West and Township 14 South, Range 17 West.
	Reestablishment of the survey executed by John W. Dougall in 1916.
	From the SE. cor. of T. 13 S., R. 17 W. marked by an iron post 3 ins. diam. set, mkd. and witnessed as described in the official record.
	North, along the E. bdy. of sec. 36.
22.35	The closing cor. of T. 13 S., R. 16 W., and T. 14 S., R. 17 W. marked by an iron post 2½ ins. diam. set, mkd. and witnessed as described in the official record of the survey of the N. bdy. of T. 14 S., R. 16 W. in 1959.
40.05	The original ¼ sec. cor. of secs. 36 and 31, marked by an iron post 1 in. diam. set, mkd. and witnessed as described in the official record. This cor. was remarked to function as the ¼ sec. cor. of sec. 36, T. 13 S., R. 17 W. only, as follows.

¼
S36
1960
1916

	North, beginning new measurement.
17.90	Wash, 3 ft. deep, 70 lks. wide, drains N 40°W
22.30	Point for the ¼ sec. cor. of sec. 31, T. 13 S., R. 16 W.
	Set an iron post 30 ins. long, 2½ ins. diam. 22 ins. in the ground with brass cap mkd.

T13S
R17W R16W
¼
S31
1960

	Raised mound of stone 2½ ft. base, 2 ft. high E. of I. P.
33.67	Graded road bears NW and SE
40.17	The original cor. of secs. 25, 30, 31 and 36, marked by an iron post 3 ins. diam. set, mkd. and witnessed as described in the official record. This cor. was remarked to function as the cor. of secs. 25 and 36, T. 13 S., R. 17 W. only, as follows.

T13S
R17W R16W
S25 | S31
S36
1960
1916

Dependent Resurvey of the E. Bdy. of T. 13 S., R. 17 W.

Chains	
	North, along the E. bdy. of sec. 25,
3.50	Graded road bears E and W.
22.13	Point for the cor. of secs. 30 and 31, T. 13 S., R. 16 W.
	Set an iron post 30 ins. long, 2½ ins. diam. 24 ins. in the ground, with brass cap mkd.
	T13S R17W R16W S25 | S30 | S31 1960 1916
	Raise a mound of stone 2 ft. base, 2 ft. high E. of I. P.
22.43	Wash 4 ft. deep, 20 lks. wide drains W.
25.18	Top of slope
40.06	The original ¼ sec. cor. of secs. 25 and 30, marked by an iron post 1 in diam. set, mkd. and witnessed as described in the official record. This cor. remarked to function as the ¼ sec. cor. of sec. 25, T. 13 S., R. 17 W. only, as follows.
	¼ S25 | 1960 1916
	North, beginning new measurement.
22.07	Point for the ¼ sec. cor. of sec. 30, T. 13 S., R. 16 W.
	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.
	T13S R17W R16W | ¼ | S30 1960
39.99	The original cor. of secs. 19, 24, 25 and 30, marked by an iron post 3 ins. diam., set, mkd. and witnessed as described in the official record. This cor. remarked to function as the cor. of secs. 24 and 25. T. 13. S., R. 17 W. only as follows.
	T13S R17W R16W S24 / S25 | S30 1960 1916

Dependent Resurvey of the E. Bdy. of T. 13 S., R.

Chains	
	North, along the E. bdy. of sec. 24.
22.08	Point for the cor. of secs. 19 and 30, T. 13 S., R. 16 W.
	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. T13S R17W R16W S24 | S19/S30 1960
39.93	The original ¼ sec. cor. of secs. 24 and 19, marked by an iron post 1 in. diam. set, mkd. and witnessed as described in the official record. This cor remarked to function as the ¼ sec. cor. of sec. 24, T. 13 S., R. 17 W. only as follows. ¼ S24 | 1960 1916
	North, beginning new measurement.
22.15	Point for the ¼ sec. cor. of sec. 19, T. 13 S., R. 16 W.
	Set an iron post 30 ins. long, 2½ ins. diam. 24 ins. in the ground, with brass cap mkd. T13S R17W R16W ¼ |S19 1960
	Raised mound of stone 2½ ft. base, 2 ft. high E. of I. P.
32.65	Dirt road bears E. and W.
40.17	The original cor. of secs. 13, 18, 19, and 24, marked by an iron post 3 ins. diam. set, mkd., and witnessed as described in the official record. This cor. remarked to function as the cor. of secs. 13 and 24, T. 13 S., R. 17 W. only as follows. T13S R17W R16W S13/S24 | S19 1960 1916
	North, along the E. bdy. of sec. 13.
21.98	Point for the cor. of secs. 18 and 19, T. 13 S., R. 16 W.
	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. T13S R17W R16W S13 | S18/S19 1960

Dependent Resurvey of the E. Bdy. of T. 13 S., R. 17 W.

Chains	
40.05	The original ¼ sec. cor. of secs. 13 and 18, marked by an iron post 1 in. diam. set, mkd., and witnessed as described in the official record. This cor. remarked to function as the ¼ sec. cor. of sec. 13, T. 13 S., R. 17 W. only, as follows. ¼ S13 | 1960 1916
	North, beginning new measurement.
21.93	Point for the ¼ sec. cor. of sec. 18, T. 13 S., R. 16 W. Set an iron post 30 ins. long, 2½ ins. diam. 24 ins. in the ground, with brass cap mkd. T13S R17W R16W | ¼ | S18 1960
	Raised mound of stone 2 ft. base, 2 ft. high E. of I. P.
39.94	The original cor. of secs. 7, 12, 13 and 18, marked by an iron post 3 ins. diam. set, mkd. and witnessed as described in the official record. This cor. remarked to function as the cor. of secs. 12 and 13, T. 13 S., R. 17 W. only as follows. T13 S R17W R16W S12 | S18 S13 | 1960 1916
	North, along the E. bdy. of sec. 12.
21.99	Point for the cor. of secs. 7 and 18, T. 13 S., R. 16 W. Set an iron post 30 ins. long, 2½ ins. diam. 12 ins. in the ground to bedrock, and in a mound of stone 3 ft. base, to top, with brass cap mkd. T13S R17W R16W S12 | S7 S18 1960
40.07	The original ¼ sec. cor. of secs. 7 and 12, marked by an iron post 1 in. diam. set, mkd. and witnessed as described in the official record. This cor. remarked to function as the ¼ sec. cor. of sec. 12, T13 S., R. 17 W. only as follows. ¼ S12 | 1960 1916
	North, beginning new measurement.

Resurvey of the E. Bdy. of T. 1

Chains

21.92 Point for the ¼ sec. cor. of sec. 7, T. 13 S., R. 16 W.

Set an iron post 30 ins. long, 2½ ins. diam. 24 ins. in the ground, with brass cap mkd.

T13S
R17W R16W
¼
S7
1960

Raised mound of stone 2½ ft. base, 2 ft. high E. of I. P.

40.04 The original cor. of secs. 1, 6, 7 and 12, marked by an iron post 3 ins. diam. set, mkd. and witnessed as described in the official record. This cor. remarked to function as the cor. of secs. 1 and 12, T. 13 S., R. 17 W. only as follows.

T13S
R17W R16W
S1 S7
S12
1960
1916

North, along the E. bdy. of sec. 1.

21.88 Point for the cor. of secs. 6 and 7, T. 13 S., R. 16 W.

Set an iron post, 30 ins. long, 2½ ins. diam. 10 ins. in the ground to bedrock and in a mound of stone 3 ft. base, to top, with brass mkd.

T13S
R17W R16W
S1 S6
S7
1960

39.99 The original ¼ sec. cor. of secs. 1 and 6, marked by an iron post 1 in. diam. set, mkd. and witnessed as described in the official record. This cor. remarked to function as the ¼ sec. cor. of sec. 1, T. 13 S., R. 17 W. only as follows.

¼
S1
1960
1916

North, beginning new measurement.

21.89 Point for the ¼ sec. cor. of sec. 6, T. 13 S., R. 16 W.

Set an iron post 30 ins. long, 2½ ins. diam. 24 ins. in the ground, with brass cap mkd.

T13S
R17W R16W
¼
S6
1960

Raised mound of stone 2 ft. base, 2 ft. high E. of I. P.

38.59 Wash 4 ft. deep 50 lks. wide, drains W.

55.59 The original cor. of Tps. 12 and 13 S., Rgs. 16 and 17 W. marked by

Chains

an iron post 3 ins. diam. set, mkd. and witnessed as described in the official record. This Tp. cor. remarked to function as the cor. of Tps. 12 and 13 S., R. 17 W. only as follows:

T12S
R17W R16W
S36 | S6
S1 | T13S
1960
1916

From this cor. the closing cor. of Tps. 12 and 13 S., R. 16 W. bears N 0°05'W, 6.10 chs. dist. marked by an iron post set, mkd. and witnessed as described in the field notes of the concurrent survey of the N. Bdy.. of T. 13 S., R. 16 W.

Survey of the E. Bdy. of T. 13 S., R. 16 W.

Beginning at the cor. of Tps. 13 and 14 S., Rgs. 15 and 16 W. marked by an iron post 2½ ins. diam. set. mkd. and witnessed as described in the official record.

North, bet. secs. 31 and 36.

Over mountainous desert land, covered with scattered juniper, asc. 100 ft. over broken and ledgy SE. slope.

5.70 Spur, slopes NE., desc. 495 ft. over ledgy NW. slope.

30.20 Wash in bottom of draw, 70 lks. wide, 3 ft. deep, drains NE., asc. 100 ft. over SW. slope.

40.00 Point for the ¼ sec. cor. of secs. 36 and 31.

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.

T13S
R16W R15W
¼
S36 | S31
1960

Cor. falls on crest of long spur sloping NE., desc. 95 ft. over N. slope.

56.10 Wash, 50 lks. wide, 3 ft. deep, drains N. 60° E., asc. 40 ft. along E. slope.

59.10 Low spur, slopes E., desc. 70 ft. along E. slope.

79.40 Small wash, drains E., asc. 10 ft. over S. slope.

80.00 Point for the cor. of secs. 25, 30, 31 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.

T13S
R16W R15W
S25 | S30
S36 | S31
1960

Chains

Land, broken
Soil, gravel and rocks, exposed ledges
Timber, scattered scrub juniper

North, bet. secs. 25 and 30.

Over broken mountainous desert land, through scattered juniper, asc. 15 ft. over S. slope of low spur.

.85 Low spur, slopes NE., desc. 55 ft. over NE. slope. Leave mountains and scattered timber.

8.10 Wash, 30 lks. wide, 3 ft. deep, drains N. 60° E., asc. 10 ft. along E. slope

12.70 Low spur, slopes NE., desc. 65 ft. along E. slope.

27.10 Wash, 20 lks. wide, 2 ft deep, drains E., asc. 45 ft. along E. slope.

40.00 Point for the ¼ sec. cor. of secs. 25 and 30.

Set an iron post 30 ins. long, 2½ ins. diam 12 ins. in the ground, to bedrock and in a mound of stone 3 ft. base to top, with brass cap mkd

T13S
R16W R15W
¼
S25 | S30
1960

Cor. falls on low spur, desc. 30 ft. along E. slope.

54.00 Low spur, slopes E., desc, 25 ft. along gentle E. slope.

62.90 Wash, 70 lks. wide, 3 ft. deep, drains E., cont. along gentle E. slo

73.90 Small rise, slopes NE., desc. 35 ft. over NW. 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 to bedrock and in a mound of stone 3½ ft. base, to top, with brass cap mkd.

T13S
R16W R15W
S24 | S19
S25 | S30
1960

Land, slightly broken
Soil, rocks and gravel
Timber, none

North, bet. secs. 19 and 24.

Over slightly broken desert land, desc. 55 ft. over NW. slope.

18.60 Wash, 30 lks. wide, 2 ft. deep, drains N. irregular, desc. 65 ft. along wash.

37.20 Leave same wash which changes course to NE., desc. over NE. slope.

40.00 Point for the ¼ sec. cor. of secs. 19 and 24.

Survey of the East Bdy. of T. 13 S., R. 16 W.

Chains	
	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. T13S R16W R15W ¼ S24 | S19 1960
	Cont. over NE. slope.
41.00	Small rise, slopes NE., desc. 85 ft. over gentle NE. slope.
72.60	Wash, 20 lks. wide, 2 ft. deep, drains N. 40° E., desc. 10 ft. along gentle 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. 22 ins. in the ground and in a collar of stone, with brass cap mkd. T13S R16W R15W S13 | S18 S24 | S19 1960
	Land, slightly broken Soil, rocky and gravelly Timber, none
	North, bet. secs. 13 and 18.
	Over rolling desert land, desc. 15 ft. along gentle E. slope.
23.70	Small rise, slopes E. about 6 chs. and ends in black rocky point, desc. 35 ft. over gentle NE. slope
40.00	Point for the ¼ sec. cor. of secs. 13 and 18.
	Set an iron post 30 ins. long, 2½ ins. diam. 18 ins. in the ground to bedrock and in a mound of stone 2½ ft. base, to top, with brass cap mkd. T13S R16W R15W ¼ S13 | S18 1960
	Desc. 10 ft. over gentle NE. slope.
45.60	Small wash, drains NE., desc. 15 ft. over gentle NE. slope.
55.80	A prominent rock capped knoll bears W. 1 ch., desc. 40 ft. over gentle NE. slope.
80.00	Point for the cor. of secs. 12, 7, 13 and 18.
	Set an iron post 30 ins. long, 2½ ins. diam. 16 ins. in the ground to bedrock and in a mound of stone 2½ ft. base, to top, with brass cap mkd. T13S R16W R15W S12 | S7 S13 | S18 1960

140

Survey of the East Bdy. of T. 13 S., R. 16 W.

Chains	
	Land, rolling Soil, gravelly Timber, none
	North, bet. secs. 7 and 12.
	Over rolling desert land, desc. 5 ft. along gentle NE. slope.
12.70	Road, bears E. and W., desc. 10 ft. along gentle E. slope.
18.90	Small wash, drains, E., desc. 10 ft. along gentle E. slope.
35.60	Swale, small wash in bottom, drains SE., asc. 10 ft. over gentle SW. slope.
40.00	Point for the ¼ sec. cor. of secs. 7 and 12, falls on graded gravel road, Sand Pass to Callao.
	At the cor. point deposit broken glass 2 ft. below road surface.
	From which; An iron post 30 ins. long, 2½ ins. diam. set 24 ins. in the ground, for a reference monument, with brass cap mkd. R.M. T13S R15W ¼S7 22 ft. with arrow pointing to cor. bears N. 40° 25' E. 22 ft. dist.
	Raised a mound of stone 2½ ft. base, 2 ft. high W. of I. P.
	An iron post 30 ins. long, 2½ ins. diam. set 24 ins. in the ground, for a reference monument, with brass cap mkd. R.M. T13S R16W ¼S12 60 ft. with arrow pointing to cor. bears N. 12° 38' W. 60 ft. dist.
	Raised mound of stone 2 ft. base, 2 ft. high E. of I. P.
	Asc. 80 ft. over SW. slope.
67.40	Bulldozed road, bears E. and W., asc. 50 ft. over S. slope.
73.70	A mine shaft bears W. about 10 chs. dist. abandoned at time of survey asc. 60 ft. over S. slope.
80.00	Point for the cor. of secs. 1, 6, 7 and 12.
	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.

T13S
R16W R15W

S1	S6
S12	S7

1960

	Cor. falls on slight E. slope in a small saddle.
	Land, rolling to broken Soil, gravelly Timber, none.
	North, bet. secs. 1 and 6.
	Over broken desert land, asc. S. slope.
1.50	Top of ascent, in small saddle, bears E. and W., desc. 65 ft. over

Chains	
	rocky NE. slope.
14.30	Bulldozed road, bears E. and W. also end of descent in pass, asc. 270 ft. over rocky S. slope.
40.00	Point for the ¼ sec. cor. of secs. 1 and 6.
	Set an iron post 30 ins. long, 2½ ins. diam. 10 ins. in the ground to bedrock and in a mound of stone 3 ft. base, to top, with brass cap mkd.

T13S
R16W R15W
¼
S1 | S6
1960

	Asc. 20 ft. over S. slope.
41.80	High rocky spur, slopes E., desc. 200 ft. over rocky NE. slope.
54.90	Wash in bottom of draw, drains SE., asc. 80 ft. over SW. slope.
65.00	Top of ridge, bears W. and N. irregular, desc. 45 ft. along W. slope.
74.00	Small spur, slopes W., desc. 20 ft. along W. slope.
80.00	Point for the cor. of Tps. 12 and 13 S., Rgs. 15 and 16 W.
	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 cap mkd.

T12S
R16W R15W
S36 | S31
S1 | S6
T13S
1960

Land, broken
Soil, rocks and gravel
Timber, none

Survey of the North Boundary of T. 13 S., R. 16 W.

	From the cor. of Tps. 12 and 13 S., Rgs. 15 and 16 W.
	West, bet. secs. 1 and 36.
	Over mountainous desert land, desc. 20 ft. over W. slope.
7.90	Wash, 3 ft deep, 40 lks. wide, drains NW., asc. 25 ft. along irregular N. slope.
31.60	High spur, slopes NW., desc. 60 ft. over SW. slope.
40.00	Point for the ¼ sec. cor. of secs. 1 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 3½ ft. base, to top, with brass cap mkd.

142

Survey of the North . of T. 13 S. R. 16 W.

Chains	
	T12S R16W ¼ S36 / S1 T13S 1960
	Desc. 90 ft. over SW. slope.
48.00	Base of hills, bears N. and S. irregular, thence over rolling desert land.
76.50	Graded gravel road, (Sand Pass to Callao), bears NW. and SE., asc. 20 ft. over rolling desert land.
80.00	Point for the cor. of secs. 1, 2, 35 and 36.
	Set an iron post 30 ins. long, 2½ ins. diam. 24 ins. in the ground, with brass cap mkd.
	T12S R16W S35 | S36 S2 | S1 T13S 1960
	Raised mound of stone 3 ft. base, 2½ ft. high W. of I. P.
	Land, mountainous to rolling desert Soil, gravelly and rocky on mts. sandy clay on desert land. Timber, none, undergrowth, sage and shadscale.
	West, bet. secs. 2 and 35.
	Over rolling desert land, along a gentle NW. slope.
21.00	Low rocky spur, slopes N. about 5 chs. to end, desc. 45 ft. over gentle NW. slope.
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, to bedrock, and in a mound of stone 3 ft. base to top, with brass cap mkd.
	T12S R16W ¼ S35 / S2 T13S 1960
	Desc. 45 ft. over gentle NW. slope.
64.90	Small wash, drains NW., desc. 35 ft. over gentle 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. 10 ins. in the ground to bedrock and in a mound of stone 3 ft. base, to top, with brass cap mkd.
	T12S R16W S34 | S35 S3 | S2 T13S 1960
	Land, slightly broken to rolling

Survey of the North Bdy. of T. 13 S., R. 16 W.

Chains	
	Soil, sandy clay with gravel and rocky spots. Timber, none. Undergrowth, sage and black brush.
	West, bet. secs. 3 and 34. Over gently rolling desert land of Snake Valley, desc. 50 ft. over gentle W. slope.
28.20	Enter level bottom land, E. edge of natural pond, dry at time of survey.
40.00	Point for the ¼ sec. cor. of secs. 3 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. T12S R16W ¼ S34 / S3 T13S 1960
	Cor. falls on W. edge of natural pond, cont. over level bottom land.
68.30	Leave bottom land, asc. 70 ft. over gentle 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. 15 ins. in the ground to bedrock and in a mound of stone 3 ft. base, to top, with brass cap mkd. T12S R16W S33 | S34 S4 | S3 T13S 1960
	Land, rolling to level desert Soil, clay, gravel spots Timber, none Undergrowth, sage, and black brush
	West, bet. secs. 4 and 33. Over rolling desert land of Snake Valley, asc. 10 ft. over gentle E. slope.
1.80	Top of rise, bears N. and S., desc. 110 ft. over gentle 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. 24 ins. in the ground, and in a collar of stone, with brass mkd. T12S R16W ¼ S33 / S4 T13S 1960

Survey of the North Bdy. of T. 13 S., R. 16 W.

Chains	
	Desc. 65 ft. over gentle W. slope.
80.00	Point for the cor. of secs. 4, 5, 32 and 33.
	Set an iron post 30 ins. long, 2½ ins. diam. 15 ins. in the ground to bedrock and in a mound of stone 3 ft. base, to top, with brass cap mkd.
	T12S R16W S32 | S33 S5 | S4 T13S 1960
	Land, rolling desert Soil, sandy clay Timber, none
	West, bet. secs. 5 and 32.
	Over rolling desert land of Snake Valley, desc. gentle W. slope.
3.20	Crest of terrace, bears N. and S., Desc. 45 ft. over W. slope of terrace.
11.00	Base of same terrace, bears N. and S., thence over gentle rolling bottom land, draining NW.
40.00	Point for the ¼ sec. cor. of secs. 5 and 32.
	Set an iron post 30 ins. long, 2½ ins. diam. 15 ins. in the ground to bedrock and in a mound of stone 2½ ft. base, to top, with brass cap mkd.
	T12S R16W ¼ S32 S5 T13S 1960
	Cont. over gently rolling desert land.
80.00	Point for the cor. of secs. 5, 6, 31 and 32.
	Set an iron post 30 ins. long, 2½ ins. diam. 14 ins. in the ground to bedrock and in a mound of stone 3 ft. base, to top, with brass cap mkd.
	T12S R16W S31 | S32 S6 | S5 T13S 1960
	Land, rolling desert Soil, sandy clay Timber, none Undergrowth, sage, shadscale and black brush.
	West, bet. secs. 6 and 31.
	Over rolling desert land of Snake Valley, draining NW.
40.00	Point for the ¼ sec. cor. of secs. 6 and 31.

Resurvey of the North Bdy. of T. 13 S., R. 16 W.

Chains	
	Set an iron post 30 ins. long, 2½ ins. diam. 23 ins. in the ground, with brass cap mkd.
	T12S R16W ¼ S31 S6 T13S 1960
	Raised mound of stone 2 ft. base, 2 ft. high N. of I. P.
	Cont. over rolling desert land.
80.00	Point for the 1/16 cor. of secs. 6 and 31.
	Set an iron post 30 ins. long, 2½ ins. diam. 23 ins. in the ground, and in a collar of stone, with brass cap mkd.
	T12S R16W 1/16 S31 80 S6 T13S 1960
	Cont. over rolling desertland.
89.96	Intersect the E. bdy. of T. 12 S., R. 17 W.
	Point for the closing cor. of Tps. 12 and 13 S., R. 16 W.
	Set an iron post 30 ins. long, 2½ ins. diam. 22 ins. in the ground, and in a collar of stone, with brass cap mkd.
	T12S T12S R16W S36 S31 CC S6 R17W T13S 1960
	From this cor. the cor. of Tps. 12 and 13 S., R. 17 W. bears S. 0° 05' E., 6.10 chs. dist. marked by an iron post 3 ins. diam. set and witnessed as described in the official record, and remkd. as described in the concurrent dependent resurvey of the E. bdy. of T. 13 S., R. 17 W.
	Land, rolling desert. Soil, sandy clay Timber, none Undergrowth, sage, shadscale and black brush.
	Survey of a Portion of the Subdivision of T. 13 S., R. 16 W.
	From the cor. of secs. 1, 2, 35 and 36, on the S. bdy. of the Tp. mkd. by an iron post 2½ ins. diam. set, mkd. and witnessed as described in the official record.
	N. 0° 01' W. bet. secs. 35 and 36.
	Over mountainous desert land, covered with scattered juniper, asc. 15 ft. over SW slope.

Survey, Portion of the Subdivision of T. 13 S., R. 16 W.

Chains	
2.20	Spur, slopes NW., desc. 20 ft. over N. slope.
5.20	Drain, drains W., asc. 20 ft. over S. slope.
8.70	Spur, slopes W., desc. 50 ft. over N. slope.
13.00	Wash, 4 ft. deep, 50 lks. wide, drains W., asc. 130 ft. over SE. slope.
31.30	Top of ridge, bears S. irregular and NW., desc. 140 ft. over NE. slope.
40.00	Point for the ¼ sec. cor. of secs. 35 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 3½ ft. base, to top, with brass cap mkd.
	T13S R16W ¼ S35 | S36 1960
	Desc. 20 ft. over NE. slope.
41.30	Small draw, drains E., asc. 70 ft. over SE. slope
46.30	Ridge, bears NW. and SE., desc. 160 ft. over NW. slope of spur sloping N. from ridge.
62.90	Top of same spur which curves to NW., desc. 205 ft. over NE. slope of spur.
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 bedrock, and in a mound of stone 4 ft. base to top, with brass cap mkd.
	T13S R16W S26 | S25 S35 | S36 1960
	Land, broken mountain Soil, rocky and gravelly Timber, very scattered scrub juniper Undergrowth, sage and black brush
	From the cor. of secs. 25, 30, 31 and 36, on the E. bdy. of the Tp.
	S. 89° 59' W. bet. secs. 25 and 36.
	Over mountainous desert land, covered with scrub juniper, asc. 150 ft. over broken NE. slope.
21.60	Saddle on top of spur which slopes N., desc. 60 ft. over W. slope.
28.90	Wash, 3 ft. deep, 60 lks. wide, drains NE. from W. irregular, thence along S. slope.
34.10	Same wash, drains SE. from NW., asc. 20 ft. over NE. slope.
40.00	Point for the ¼ sec. cor. of secs. 25 and 36.

Chains	
	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.
	T13S R16W ¼ S25 S36 1960
	Asc. 375 ft. over NE. slope.
62.00	High spur, slopes N., Desc. 180 ft. over SW. slope.
75.20	Wash in bottom of draw, drains NW., asc. 45 ft. over NE. slope.
80.00	The cor. of secs. 25, 26, 35 and 36.
	Land, broken Soil, gravel and rocks Timber, scattered juniper. Undergrowth, sage and black brush.
	From the cor. of secs. 3, 4, 33 and 34, on the S. bdy. of the Tp. mkd. by an iron post 2½ ins. diam. set, mkd. and witnessed as described in the official record.
	N. 0° 02' W., bet. secs. 33 and 34.
	Over mountainous desert land, asc. 45 ft. over S. slope.
4.40	Low spur, slopes W., desc. 60 ft. along W. slope.
14.60	Wash, 3 ft. deep 60 lks. wide, drains W., asc. 60 ft. along W. slope.
30.80	Spur, slopes W., desc. 110 ft. along broken W. slope.
35.60	Rocky draw, drains W., asc. 35 ft. along W. 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 bedrock, and in a mound of stone 4 ft. base to top, with brass cap mkd.
	T13S R16W ¼ S33 | S34 1960
	Asc. 20 ft. over broken W. slope.
43.30	Spur, slopes W., desc. 40 ft. along irregular W. slope over a series of small spurs and gullies draining W.
61.50	Black rocky spur, slopes W., desc. 70 ft. along W. slope
70.80	Wash, 3 ft. deep, 70 lks. wide, drains W. irregular, asc. 35 ft. over S. slope.
80.00	Point for the cor. of secs. 27, 28, 33 and 34.

, Portion of the Subdivision of T. 13 S. R. 16 W.

Chains	
	Set an iron post 30 ins. long, 2½ ins. diam, on solid rock over an X, and in a mound of stone 4 ft. base to top, with brass cap mkd. T13S R16W S28 | S27 S33 | S34 1960 Land, broken mountain Soil, gravel and rocks, exposed ledges Timber, none Undergrowth, shadscale.
	N. 0° 02' W. bet. secs. 27 and 28.
	Over broken mountainous desert land, asc. 50 ft. over S. slope.
13.60	Small divide, bears W. and NE., desc. 110 ft. along a rocky W. slope below crest of divide.
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 bedrock, and in a mound of stone 4 ft. base, 22 ins. high, with brass cap mkd. T13S R16W ¼ S28 | S27 1960 Desc. 20 ft. along W. slope.
42.00	Slope changes, desc. 135 ft. over N. slope of spur.
46.80	Base of N. end of spur, bears SW. and SE., thence over bottom of wide draw.
59.00	Wash, 3 ft. deep, 40 lks. wide, drains W., also base of terrace, bears W. and SE., asc. 40 ft. over S. slope.
61.00	Crest of same terrace, bears W. and SE., desc. 10 ft. over rolling bench land draining N.
80.00	Point for the cor. of secs. 21, 22, 27 and 28.
	Set an iron post 30 ins. long, 2½ ins. diam. 12 ins. in the ground to bedrock, and in a mound of stone 3 ft. base to top, with brass cap mkd. T13S R16W S21 | S22 S28 | S27 1960 Land, broken Soil, gravel and rocks Timber, none Undergrowth, shadscale and sage.
	N. 0° 02' W. bet. secs. 21 and 22.
	Over rolling to slightly broken bench land, of Snake Valley, desc. 45 ft.

Chains	
25.20	Small wash, drains N. irregular, desc. 30 ft. over slightly broken bench land.
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 ground to bedrock, and in a mound of stone 3 ft. base to top, with brass cap mkd. T13S R16W ¼ S21 | S22 1960 Desc. 15 ft. over rolling bench land draining N.
58.30	Graded gravel road, bears N. 70° E., and S. 70° W., cont. over bench land draining NW.
73.50	Wash, 2 ft. deep, 30 lks. wide, drains W., cont over. slightly broken bench land.
75.20	Rise, bears E. and W., desc. 35 ft. over N. slope of rise.
80.00	Point for the cor. of secs. 15, 16, 21 and 22. Set an iron post 30 ins. long, 2½ ins. diam. 16 ins. in the ground to bedrock, and in a mound of stone 3 ft. base to top, with brass cap mkd. T13S R16W S16 | S15 S21 | S22 1960 Land, slightly broken bench Soil, gravelly clay Timber, none Undergrowth, sage, shadscale and black brush.
	N. 0° 02' W. bet. secs. 15 and 16. Over rolling desert bench land of Snake Valley, desc. 15 ft. along gentle W. slope.
26.30	Wash, 3 ft. deep 70 lks. wide, drains NW., cont. along gentle W. 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. T13S R16W ¼ S16 | S15 1960 Cont. along gentle W. slope.
46.70	Top of small knoll, about 6 chs. diam., desc. 75 ft. along gentle 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. 24 ins. in the ground,

Chains	
	and in a collar of stone, with brass cap mkd.
	T13S R16W S9 | S10 S16 | S15 1960
	Land, rolling desert Soil, clay and sand with gravel spots Timber, none. Undergrowth, sage and shadscale
	N. 0° 02' W. bet. secs. 9 and 10.
	Over rolling desert bench land of Snake Valley, desc. 65 ft. over gentle W. slope.
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 ground, and in a mound of stone 2½ ft. base, to top, with brass cap mkd.
	T13S R16W ¼ S9 | S10 1960
	Desc. 20 ft. along gentle W. slope.
70.10	Small wash, drains SW., desc. 20 ft. along gentle W. slope.
79.00	Point selected for the witness cor. of secs. 3, 4, 9 and 10.
	Set an iron post 30 ins. long, 2½ ins. diam. 24 ins. in the ground, with brass cap mkd.
	T13S R16W W C S4 ↑ S3 S9 | S10 1960
	Raised mound of stone 2½ ft. base, 2 ft. high W. of I. P.
80.00	Point for the cor. of secs. 3, 4, 9 and 10, fall in wash where monument cannot be perpetuated. Wash drains W.
	Land, rolling Soil, clay some gravel spots Timber, none Undergrowth, sage and shadscale
	N. 0° 01' E. bet. secs. 3 and 4.
	Over rolling desert land, asc. 65 ft. over S. slope to small bench.
15.80	Crest of small bench, bears NW. and E., asc. 25 ft. over gentle S. slope on top of bench.
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,

Chains	
	and in a collar of stone, with brass cap mkd. T13S R16W ¼ S4 | S3 1960 Asc. 50 ft. on top of bench.
80.12	The cor. of secs. 3, 4, 33 and 34 on the N. bdy. Land, rolling bench Soil, sandy clay, gravel spots Timber, none Undergrowth, shadscale and sage.
	From the cor. of secs. 2, 3, 34 and 35 on the N. bdy. of the Tp. S. 0°01' E. bet. secs. 2 and 3. Over rolling desert land, asc. 25 ft. along a gentle W. slope.
28.50	Wash, 3 ft. deep, 30 lks. wide, drains. W.
34.20	Wash, 2 ft. deep, 40 lks. wide, drains W., asc. 10 ft. along W. slope.
40.08	Point for the ¼ sec. cor. of secs. 2 and 3. Set an iron post 30 ins. long, 2½ ins. diam. 14 ins. in the ground to bedrock, and in a mound of stone 2½ ft. base to top, with brass cap mkd. T13S R16W ¼ S3 | S2 1960 Asc. 90 ft. over gentle W. slope.
80.08	Point for the cor. of secs. 2, 3, 10 and 11, at a position calculated to be bet. the cor. of secs. 1, 6, 7 and 12 on the E. bdy. and the cor. of secs. 3, 4, 9 and 10. Set an iron post 30 ins. long, 2½ ins. diam. 8 ins. in the ground to bedrock, and in a mound of stone 3 ft. base to top, with brass cap mkd. T13S R16W S3 | S2 S10 | S11 1960 Land, rolling Soil, sandy gravel, rocky on S. portion Timber, none Undergrowth, shadscale and sage.
	N. 89°58' E. bet. secs. 2 and 11, on a line calculated bet the corner of secs. 1, 6, 7 and 12 on the E. bdy. and the cor. of secs. 3, 4, 9 and 10.

152

Survey, Portion of the Subdivision of

Chains	
	Over broken desert land, asc. 40 ft. along gentle SW. slope.
12.30	Small spur, slopes S., thence along S. slope.
22.80	Small spur, slopes S., about 8 chs. to end, cont. along S. slope.
26.30	Gully, drains S., asc. 45 ft. along S. slope.
36.10	Spur, slopes S., cont. along S. slope.
38.00	Small draw, drains SW., asc. 10 ft. over W. slope.
40.00	Point for the ¼ sec. cor. of secs. 2 and 11.
	Set an iron post 30 ins. long, 2½ ins. diam. 8 ins. in the ground to bedrock, and in a mound of stone 3 ft. base to top, with brass cap mkd.
	T13S R16W ¼ S2 / S11 1960
	Asc. 55 ft. over W. slope.
44.10	Spur, slopes S. also top of ascent on low broken hills, desc. 70 ft. over SE. slope.
58.20	Small spur, slopes S. from NW., desc. 55 ft. over SE. 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 ground to bedrock, and in a mound of stone 3 ft. base to top, with brass cap mkd.
	T13S R16W S2 | S1 S11 | S12 1960
	Land, broken Soil, gravel and rocks Timber, none Undergrowth, sage and shadscale.
	N. 0°01'E. bet. secs. 1 and 2.
	Over rolling desert land, drains E., asc. 40 ft. along gentle E. slope.
38.10	Small wash, drains E., asc. gentle E. slope.
40.00	Point for the ¼ sec. cor. of secs. 1 and 2.
	Set an iron post 30 ins. long, 2½ ins. diam. 22 ins. in the ground, with brass cap mkd.
	T13S R16W ¼ S2 | S1 1960
	Asc. 45 ft. along gentle E. slope.
62.10	Spur, bears E., desc. 35 ft. over NE. slope.
80.02	The cor. of secs. 1, 2, 35 and 36 on the N. bdy. of the

Survey, Portion of the Subdivision of T. 13 S., R. 16 W.

Chains	
	Land, rolling to broken Soil, sandy clay, rocky on N. portion. Timber, none Undergrowth, sage and shadscale
	From the cor. of secs. 15, 16, 21 and 22. West, bet. secs. 16 and 21. Over broken desert land, asc. 15 ft. over NE. slope.
8.40	Top of rise, bears NW. and E., desc. 20 ft. over W. slope.
12.50	Wash, 5 ft. deep, 50 lks. wide, drains N. 60° W., asc. 55 ft. over NE. slope.
24.40	Spur, slopes N., desc. 80 ft. over W. slope.
29.00	Base of same spur, bears N. and S., desc. 25 ft. over gentle W. slope.
40.00	Point for the ¼ sec. cor. of secs. 16 and 21. Set an iron post 30 ins. long, 2½ ins. diam. 22 ins. in the ground, with brass cap mkd. T13S R16W ¼ S16 / S21 1960 Raised mound of stone 2 ft. base, 2 ft. high N. of I. P. Desc. 80 ft. over gentle W. slope, covered with black rocks.
80.00	Point for the cor. of secs. 16, 17, 20 and 21. Set an iron post 30 ins. long, 2½ ins. diam. 8 ins. in the ground to bedrock, and in a mound of stone 3 ft. base to top, with brass cap mkd. T13S R16W S17 | S16 S20 | S21 1960 Land, broken to rolling Soil, rocky Timber, none Undergrowth, shadscale
	N. 0°03'W. bet. secs. 16 and 17. Over rolling desert land, desc. 50 ft. along gentle W. slope.
40.00	Point for the ¼ sec. cor. of secs. 16 and 17. Set an iron post 30 ins. long, 2½ ins. diam. 24 ins. in the ground, with brass cap mkd. T13S R16W ¼ S17 | S16 1960

Chains	
	Desc. 35 ft. along a gentle W. slope.
72.30	Small wash, drains W.
78.20	Small wash, drains 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 2½ ft. base to top, with brass cap mkd.
	T13S R16W S8 | S9 S17 | S16 1960
	Land, rolling Soil, rocky clay Timber, none
	From the cor. of secs. 9, 10, 15 and 16.
	S. 89°57'W. bet. secs. 9 and 16.
	Over rolling desert land, desc. 25 ft. over gentle W. slope.
21.10	Wash, 3 ft. deep, 30 lks. wide, drains NW., desc. W. slope.
31.80	Top of small rise, bears N. and S., desc. 35 ft. over gentle W. slope.
39.95	Point for the ¼ sec. cor. of secs. 9 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.
	T13S R16W ¼ S9 S16 1960
	Desc. 30 ft. over gentle W. slope.
55.00	Wash, 6 ft. deep, 1 ch. wide, drains N.70° W., desc. 30 ft. over gentle W. slope.
71.30	Wash, 4 ft. deep, 60 lks. wide, drains NW., desc. 15 ft. over gentle W. slope.
79.90	The cor. of secs. 8, 9, 16 and 17.
	Land, rolling Soil, sandy clay, gravel spots Timber, none Undergrowth, shadscale and sage
	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 slightly broken desert land, asc. 30 ft. along E. slope.
15.60	Small spur, slopes E., desc. 10 ft. along E. slope.
18.30	Wash, 2 ft. deep, 30 lks. wide, drains E., cont. along E. slope.

Survey, Portion of the Subdivision of T. 13 S., R. 16 W.

Chains	
22.30	Low rocky spur, slopes E., desc. 40 ft. along E. slope.
40.00	Point for the ¼ sec. cor. of secs. 32 and 33.
	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.
	T13S R16W ¼ S32 | S33 1960
	Asc. 20 ft. along E. slope.
48.70	Spur, slopes N. 30° E., desc. 45 ft. over NE. slope of spur.
59.80	Wash, 6 ft. deep, drains W., cont. over series of small spurs and gullies draining W.
72.60	Small rise, bears E. and W., desc. 15 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. 10 ins. in the ground to bedrock and in a mound of stone 4 ft. base, to top, with brass cap mkd.
	T13S R16W S29 | S28 S32 | S33 1960
	Land, broken Soil, rocky clay Timber, none Undergrowth, sage and shadscale
	From the cor. of secs. 5, 6, 31 and 32 on the S. bdy. of the Tp. monumented by an iron post 2½ ins. diam. set, mkd. and witnessed as described in the official record.
	N. 0°03'W. bet. secs. 31 and 32.
	Over rolling desert land, asc. 10 ft. over gentle S. slope.
4.70	Top small rise, bears E. and W., thence along gentle W. slope.
8.40	Small wash, drains W., desc. 10 ft. along gentle W. slope.
33.40	Top of rise, bears E. and W., desc. 25 ft. along gentle W. slope.
40.00	Point for the ¼ sec. cor. of secs. 31 and 32.
	Set an iron post 30 ins. long, 2½ ins. diam. 18 ins. in the ground to bedrock and in a mound of stone 2½ ft. base to top, with brass cap mkd.
	T13S R16W ¼ S31 | S32 1960
	Cont. along gentle W. slope.
42.50	Wash, 4 ft. deep, 70 lks. wide, drains W., asc. 15 ft. along gentle W. slope.

Chains	
53.20	Top of small rise, bears NW. and E., desc. 25 ft. along W. slope.
64.50	Wash 6 ft. deep, 1 ch. wide, drains W., cont. along. W. slope.
80.00	Point for the cor. of secs. 29, 30, 31 and 32.
	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. T13S R16W S30 | S29 S31 | S32 1960
	Land, rolling Soil, gravelly and rocky Timber, none Undergrowth, shadscale and sage
	From the cor. of secs. 28, 29, 32 and 33.
	West, bet. secs. 29 and 32.
	Over rolling desert land of Snake Valley, desc. 25 ft. over W. slope.
10.10	Small wash, drains N.70°W., desc. 50 ft. over W. slope.
36.40	Wash, 4 ft. deep, 1 ch. wide, drains NW., cont. over gentle W. slope.
40.05	Point for the ¼ sec. cor. of secs. 29 and 32.
	Set an iron post 30 ins. long, 2½ ins. diam. 16 ins. in the ground to bedrock, and in a collar of stone, with brass cap mkd. T13S R16W ¼ S29 / S32 1960
	Asc. 15 ft. over gentle NW. slope.
43.40	Rise, slopes NW., desc. 25 ft. over SW. slope of rise.
50.00	Wash, 3 ft. deep, 40 lks. wide, drains NW., desc. 75 ft. over gentle W. slope.
80.10	The cor. of secs. 29, 30, 31 and 32.
	Land, rolling desert Soil, sandy clay, some gravel spots Timber, none Undergrowth, shadscale

Survey, Portion of the Subdivision of T. 13 S., R. 16 W.

Chains

GENERAL DESCRIPTION

T. 13 S., R. 16 W., consists mainly of rolling desert land in the northern end of Snake Valley. The south portion of the township reaches the lower slopes of the Granite Mountain and the terrain becomes rough and broken.

The main roads within the township consist of the Sand Pass to Callao road, which crosses the NE. corner of the township. A branch of this road enters the township on the E. bdy. of sec. 12, bears irregularly SW. and leaves the township on the W. bdy. of sec. 31. With the exception of the hills the township can be traveled with 2 or 4 wheel drive vehicles.

The only timber consists of a few scattered juniper on the mountain slopes. The undergrowth consists mainly of a medium growth of shadscale, sage and black brush.

The elevation varies from about 4800 to 6000 ft. above sea level.

The soil is sandy clay on the bottom land and gravel and rocky on the mountain slopes.

No permanent water was noted during the survey.

158

158

Chains		Chains

4-680
(Feb., 1960)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FIELD ASSISTANTS

NAMES	CAPACITY
Virgil E. Spratt	Crew Chief (Transit)
William R. Savage	Notes
Morris E. Blackburn	Front Chainman
Elbert O. Jensen	Flagman
George D. Roundy	Cornerman

CERTIFICATE OF CADASTRAL ENGINEER

I, Virgil E. Spratt, HEREBY CERTIFY upon honor that, in pursuance of special instructions bearing date of the 25th day of August, 1[illegible] which provided Supplemental Special Instructions 11th May, 19[illegible] I have ~~surveyed~~ dependently resurveyed the East Boundary of Township 13 South, Range 17 West, and the Survey of East and North Boundaries and a Portion of the Subdivision of Township 13 South, Range 16 West.

of the Salt Lake Meridian, in the State of Utah, which [illegible] represented in the foregoing field notes as having been executed by me and under my direction; and [illegible] said survey has been made in strict conformity with said instructions, the Manual of Instructions for [illegible] 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

April 11, 1961

Virgil E. Spratt

Virgil E. Spratt
Cadastral Surveyor

CERTIFICATE OF APPROVAL

BUREAU OF LAND MANAGEMENT,

Washington, D. C., APR 17 1962, *19*

The foregoing field notes of the ~~survey of~~ [illegible] resurvey of the East Bdy. of [illegible]. 13 R. 17 W., and survey of the East and North Bdys. & survey of a Portion of the Subdivision of T.13 S., R. 16 W., Salt Lake Meridian, Utah

executed by Virgil E. Spratt, Cadastral Surveyor

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

[illegible]

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

CERTIFICATE OF TRANSCRIPT

I [illegible] the [illegible], is a true copy of the [illegible]

~~Cadastral Engineering Staff Officer.~~

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

4—679
(September 1948)

161

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

ORIGINAL

FIELD NOTES

OF THE

DEPENDENT RESURVEY

OF A PORTION OF THE NORTH BOUNDARY

AND A PORTION OF THE SUBDIVISION

OF

TOWNSHIP 38 SOUTH, RANGE 2 WEST

Of the Salt Lake *Meridian,*

n the State of Utah

EXECUTED BY

Woodrow H. Sylvester, Cadastral Surveyor

Inder special instructions dated September 16, *19* 59, *which provided*

or the surveys included under Group No. 433, *approved* October 1, 1959

nd assignment instructions dated July 1, *19* 60

Survey commenced July 7, *19* 60

Survey completed July 26, *19* 60

INDEX DIAGRAM

Township 38 South, *Range* 2 West

5 6	4 5	3 15 4	1 11 3	10 2	1
7	8	14 13 9	9 7 10	8 11	12
18	13 17	12 13 16	6 15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

GPO 866119

Township 38 South, Range 2 West

Chains

a portion of

The boundaries and/the subdivision of T. 38 S., R. 2 W. were surveyed by Alfred B. Lewis, Deputy Surveyor, in 1897. **The subdivisional survey was completed by D. A. Cannon and G. D. Voorhees in 1959.**

The following field notes are those of the dependent resurvey of a portion of the north boundary and a portion of the subdivision of T. 38 S., R. 2 W.

The resurvey was requested by the Utah Park Commission to identify the boundaries of a proposed state park, known as Kodachrome Flats.

The survey was executed with W. & L. E. Gurley solar transits, serial Nos. 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 transits were checked from time to time on a meridian which was established by the following direct solar observation July 11, 1960 at the cor. of Tps. 37 and 38 S., Rs. 2 and 3 W., latitude 37° 32' N., longitude 112° 06' W. I make a series of 6 altitude observations upon the sun for azimuth, 3 each with telescope in direct and reverse positions, and observe the horizontal angle from a peg driven firmly in the ground, 10 chains southerly, in a westerly direction from the sun.

Time of observations (105th Meridian Standard Time)	9h 25m A.M.
Mean observed vertical angle	46° 50'
Mean horizontal angle - clockwise	187° 15'
Declination of the sun	22° 02' 53" N.
True bearing from set up to stake	N. 89° 57' E.

The geographic position of the southeast corner of section 10, which is the southeast corner of the portion of the township to be surveyed, is latitude 37° 31' 29" N., longitude 112° 02' 10" W.

The mean magnetic declination is 15° 30' E.

Dependent Resurvey of a Portion of the North Boundary, T. 38 S.,R.2 W.

Reestablishment of the survey executed by Alfred B. Lewis in 1897.

Beginning at the cor. of secs. 2, 3, 34 and 35 on the N. bdy. of the Tp., mkd. by a stone 24x14x8 ins. firmly set, with 4 grooves on W. and 2 grooves on E. faces.

At the cor. point

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

Dependent Resurvey, Portion of N. Bdy., T. 38 S., R. 2 W.

Chains	
	T37S R2W S34 | S35 S 3 | S 2 T38S
	from which
	A pine 10 ins. diam., bears N. 34° 30' E., 28 lks. dist., mkd. T37S R2W S35 BT.
	A pine 12 ins. diam., bears S. 2° W., 41 lks. dist., mkd. T38S R2W S3 BT.
	Bury old cor. stone alongside iron post.
	S. 89° 46' W., along N. bdy. of sec. 3.
	Over rolling hills, through thick pinon and juniper.
3.91	Rim of deep canyon bears S. 10° E. and N. 10° W.; desc. steep W.sl.
9.00	Along steep S. slope.
39.98	Point for ¼ sec. cor. of secs. 3 and 34, inaccessible.
	Cont. along steep S. slope.
50.50	Asc. steep E. slope.
58.72	The witness corner mkd. by a sandstone, 14x8x6 ins., firmly set with witness cor. on N. side, located on rim of deep canyon, bears N. and S.
	At the cor. point
	Set an iron post, 30 ins. long, 2½ ins. diam., 4 ins. in the ground and in a mound of stone to top, with brass cap mkd.
	T37S R2W ¼ S34 / S 3 WC 1960
	S. 89° 59' W., beginning new measurement.
	Asc. E. slope.
3.62	Top of ascent; desc. W. slope.
21.09	The cor. of secs. 3, 4, 33 and 34, mkd. by a stone, 4x12x14 ins., firmly set, with 3 grooves on the E. and W. faces.
	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 to top, with brass cap mkd.
	T37S R2W S33 | S34 S 4 | S 3 T38S 1960

Chains	
	from which A pine 10 ins. diam., bears N. 29° W., 29 lks. dist., mkd. T37S R2W S33 BT. A cedar 20 ins. diam., bears N. 51° E., 64 lks. dist., mkd. T37S R2W S34 BT. A pine 18 ins. diam. bears S. 68° W., 85 lks. dist., mkd. T38S R2W S4 BT. Bury old cor. stone alongside iron post. Land, hill tops on E. and W. end; rough and broken in central portion. Soil, rocks and gravel. Vegetation, juniper, pinon and sagebrush.
	S. 89° 58' W., along N. bdy. of sec. 4. On rim which bears N. 10° W. and S. 10° E; desc. over rough broken ledges.
40.28	Point for ¼ sec. cor. of secs. 4 and 33, inaccessible.
45.78	Bottom of canyon, dry wash, drains S. 10° W.; asc. E. slope.
56.00	Upper rim of canyon bears N. 10° E. and S. 10° W.; over low rolling hills.
56.17	The witness cor. mkd. by a sandstone, 4x12x18 ins., firmly set, with ¼ WC mkd. on N. side. At the cor. point Set an iron post, 30 ins. long, 2½ ins. diam., 24 ins. in the ground, with brass cap mkd. T37S R2W ¼ S33 / S 4 → WC 1960 from which A cedar tree 20 ins. diam. bears N. 45° W., 70 lks. dist., mkd. T37N R2W S33 BT. Bury old cor. stone alongside iron post.
	S. 89° 58' W., beginning new measurement.
24.07	The cor. of secs. 4, 5, 32 and 33, mkd. by a cedar post firmly set, with 2 grooves on W. side and 4 grooves on E. side. At the cor. point Set an iron post, 30 ins. long, 2½ ins. diam., 24 ins. in the ground, with brass cap mkd.

[illegible], Portion of N. [illegible]. T.38 S., R. 2 W.

Chains	
	T37S R2W S32 | S33 S 5 | S 4 T38S 1960
	Bury old cedar post alongside iron post.
	Land, E. ¾ mile, rough broken canyons and ledges; W. ¼ mile, low rolling hills. Soil, E. ¾ mile, ledges and loose rocks; W. ¼ mile, sandy. Vegetation, cedar and juniper on W. ¼ mile.
	S. 89° 55' W., along N. bdy. of sec. 5.
	Over low rolling hills.
25.28	Old fence line, bears N. and S.
28.63	Asc. steep E. slope.
39.25	Top of slope, rim bears E. and W.
39.99	The ¼ sec. cor. of secs. 5 and 32, mkd. by a limestone 3x10x12 ins., firmly set, with ¼ grooved on N. face.
	At the cor. point
	Set an iron post, 30 ins. long, 2½ ins. diam., 24 ins. in the ground, with brass cap mkd.
	T37S R2W ¼ S32 / S 5 1960
	Bury old cor. stone alongside iron post.
	S. 89° 44' W., along N. bdy. of sec. 5.
	Over nearly level land.
4.70	Rim bears N. and S.; desc. steep ledge, W. slope.
9.00	Bottom of small canyon, drains N.; asc. ledgy E. slope.
14.00	Top ledge, spur bears N.
15.30	W. edge of spur; desc. W. ledge.
20.00	Bottom of ledge, small canyon drains N.; asc. rough ledge on E.slope.
39.05	Rim bears N. and S.; over hill top.
40.29	The cor. of secs. 5, 6, 31 and 32, mkd. by a stone, 6x15x17 ins., firmly set in mound of stone, with 1 groove on W. face and 5 grooves on E. face.
	At the cor. point

Dependent Resurvey, Portion of N. Bdy., T. 38 S., R. 2 W.

Chains	
	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. T37S R2W S31 | S32 S 6 | S 5 T38S 1960 from which A cedar 14 ins. diam. bears N. 65° E., 72 lks. dist., mkd. T37S R2W S32 BT. A pine 14 ins. diam. bears S. 61° E., 21 lks. dist., mkd. T. 38 S., R. 2 W. S5 BT. A cedar 12 ins. diam. bears S. 40° W., 32 lks. dist., mkd. T38S R2W S6 BT. Bury old cor. stone alongside iron post. Land, mostly rough rocky ledges. Soil, mostly ledges and loose rocks. Vegetation, cedar and pinon on E. and W. ends of mile; barren in central portion.
	N. 89° 39' W. along N. bdy. of sec. 6.
	Desc. rough W. slope.
9.63	Bottom of hill; over nearly level land.
16.00	Paria Creek, banks are several chains on each side due to floods, drains W.
23.15	Old four strand barbed wire fence, bears N. and S.; enter cultivated land.
30.50	Irrigation ditch, 2 ft. deep, 8 lks. wide, drains S.
37.00	Four strand barbed wire fence, bears N. and S.
38.98	Point for the ¼ sec. cor. of secs. 6 and 31, at proportionate dist.; there is no remaining evidence of the original cor.
	Cor. not monumented due to cultivated land.
41.13	Four strand barbed wire fence bears N. 20° W. and S. 20° E.
50.53	Four strand barbed wire fence, bears N. 20° W. and S. 20° E.
54.78	Dry wash, 8 ft. deep, and 30 lks. wide, drains S. 55° E.
56.97	Barbed wire fence, bears N. and S.
57.20	Graded road, bears S. and N. toward Cannonville.
58.00	Asc. E. slope of hill.
66.12	Top of hill; desc. W. slope.
72.00	Bottom of hill; over rolling hills.
76.33	The cor. of Tps. 37 and 38 S., Rs. 2 and 3 W., mkd. by a stone 8x10x12 ins., firmly set, with 6 grooves on all four sides.

Dependent Resurvey, Portion of N. [illegible] T. 38 S. R. 2 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.
	T37S R3 W R2W S36 | S31 S 1 | S 6 T38S 1960
	Bury old cor. stone alongside iron post.
	Land, hilly on E. and W. portions; cultivated on central portion. Soil, loam, gravel and rocks. Vegetation, juniper, pinon, sagebrush and cultivated crops.
	Dependent Resurvey of a Portion of the Subdivision of T. 38 S., R.2 [illegible]
	Reestablishment of survey executed by Alfred B. Lewis, Deputy Surveyor, 1897.
	From the cor. of secs. 10, 11, 14 and 15, hereinafter described.
	N. 89° 53' W., bet. secs. 10 and 15.
1.70	Dry wash, 10 ft. deep, 30 lks. wide, drains S. 30° W.
9.30	Dry wash, 3 ft. deep, 15 lks. wide, drains S. 10° W.
21.09	Dry wash, 4 ft. deep, 10 lks. wide, drains S. 42° W.
31.39	Improved road into Kodachrome Flats, bears N. and S.
32.79	Drainage ditch drains S.
39.26	The ¼ sec. cor. of secs. 10 and 15, mkd. by a sandstone, 3x12x14 ins firmly set alongside a cedar post, with ¼ grooved on the N. face.
	At the cor. point
	Set an iron post, 30 ins. long, 2½ ins. diam., 24 ins. in the [illegible] with brass cap mkd.
	T38S R2W ¼ S10/S15 1960
	Bury old cor. stone alongside iron post.
	S. 88° 52' W., beginning new measurements.
2.90	Dry wash, 13 ft. deep, 35 lks. wide, drains S. 40° W.
23.50	Dry wash, 12 ft. deep, 2.80 chs. wide, drains S. 10° W.
40.13	New four strand barbed wire fence, bears N. and S.
40.70	The cor. of secs. 9, 10, 15 and 16, mkd. by a stone, 6x15x16 ins., firmly set with 4 grooves on the S. and 3 on the E. face.

Chains	
	At the cor. point
	Set an iron post, 30 ins. long, 2½ ins. diam., 24 ins. in the ground, with brass cap mkd.
	T38S R2W S 9 | S10 S16 | S15 1960
	from which
	A cedar 15 ins. diam., bears N. 11° E., 2.20 chs. dist., mkd. T38S R2W S10 BT.
	Bury old cor. stone alongside iron post.
	Land, nearly level. Soil, gravel and loam. Vegetation, juniper, pinon and sagebrush.
	N. 0° 04' E., bet. secs. 9 and 10.
	Over rolling hills through juniper, pinon and sagebrush.
33.69	Dry wash, 7 ft. deep, 15 lks. wide, drains S. 45° E.
36.80	Asc. SE. slope.
	Top of hill; desc. N. slope.
40.21	Point for the ¼ sec. cor. of secs. 9 and 10, 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.
	T38S R2W ¼ S 9 | S10 1960
52.62	Top of hill; desc. N. slope.
63.00	Bottom of slope.
66.70	Dry wash, 8 ft. deep, 30 lks. wide, drains S. 35° E.
80.42	The cor. of secs. 3, 4, 9 and 10, mkd. by a gypsum stone, 4x12x16 ins., firmly set, the grooves had been eroded off, but bearing trees confirmed the location.
	At the cor. point
	Set an iron post, 30 ins. long, 2½ ins. diam., 24 ins. in the ground, with brass cap mkd.
	T38S R2W S 4 | S 3 S 9 | S10 1960

Dependent Resurvey, Portion of Subdivision, T. 38 S., R. 2 W.

Chains

from which

A cedar 21 ins. diam., bears S. 75° W., 35 lks. dist., mkd. T38S R2W S9 BT.

A cedar 13 ins. diam., bears N. 8° W., 79 lks. dist., mkd. T38S R2W S4 BT.

A cedar 8 ins. diam., bears N. 36° W., 110 lks. dist., mkd. T38S R2W S4 BT.

Bury old cor. stone alongside iron post.

Land, rolling hills.
Soil, rocks, gravel and loam.
Vegetation, juniper, pinon and sagebrush.

From the cor. of secs. 10, 11, 14 and 15, mkd. by a stone, 6x10x12 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 with brass cap mkd.

T38S R2W
S10 | S11
S15 | S14
1960

from which

A cedar 18 ins. diam., bears N. 20° E., 39 lks. dist., mkd. T38S R2W S11 BT.

A cedar 10 ins. diam., bears N. 85° W., 94 lks., dist., mkd. T38S R2W S10 BT.

A pine 17 ins. diam., bears S. 49° W., 31 lks. dist., mkd. T38S R2W S15 BT.

A pine 8 ins. diam., bears S. 40° E., 32 lks. dist., mkd. T38S R2W S14 BT.

Bury old cor. stone alongside iron post.

N. 0° 09' E., bet. secs. 10 and 11.

Over gypsum hills.

1.81 Dry wash, 10 ft. deep, 30 lks. wide, drains N. 65° W.; asc. steep S. slope.

4.73 Top of hill, bears E. and W.; desc. N. slope.

9.72 Dry wash, 5 ft. deep, 25 lks. wide, drains S. 65° E.

31.85 Dry wash, 2 ft. deep, 10 lks. wide, drains S. 80° W.

39.74 The ¼ sec. cor. of secs. 10 and 11; relocated from two old bearing trees; original stone missing.

Chains	
	At the cor. point.
	Set an iron post, 30 ins. long, 2½ ins. diam., 24 ins. in the ground, with brass cap mkd.
	T38S R2W ¼ S10 | S11 1960
	from which
	An old bearing tree, 11 ins. diam., bears N. 79° E., 119 lks. dist., mkd. ¼ S BT.
	An old bearing tree 13 ins. diam., bears S. 30° W., 82 lks. dist., mkd. ¼ S BT.
	N. 0° 06' W., beginning new measurement.
8.09	Dry wash, 10 ft. deep, 15 lks. wide, drains S. 10° W.
18.09	Unimproved road, bears N. 50° W. and S. 50° E.
35.86	The original witness cor. of secs. 2, 3, 10 and 11, mkd. by a stone, 18x30x36 ins., firmly set, with 5 grooves on S. edge. and 2 grooves on E. edge.
	At the cor. point
	Set an iron post, 30 ins. long, 2½ ins. diam., 24 ins. in the ground, with brass cap mkd.
	T38S R2W W C S 3 | S 2 S10 | S11 1960
	from which
	A cedar 10 ins. diam., bears S. 70° W., 60 lks. dist., mkd. T38S R2W S10 BT.
	Place old cor. stone alongside iron post.
36.46	Dry wash, 4 ft. deep, 20 lks. wide, drains S. 80° W.; asc. almost vertical ledge.
36.70	Top of ascent; thence across rocky spur, bears W.
39.94	True cor. point of secs. 2, 3, 10 and 11 - inaccessible.
	Land, rolling hills, except N. 4 chs. which are ledges. Soil, rocks, gravel and loam. Vegetation, juniper, pinon, sagebrush and bunch grass.
	N. 89° 47' W., bet. secs. 3 and 10.
	Over rough ledges.
24.40	Desc. almost vertical ledges.
25.40	Bottom of descent; over rolling hills.

Dependent Portion of Subdivision T. 38 S. R. 2 W.

Chains	
30.80	Improved Kodachrome Flats road, bears N. 15° W. and S. 15° E.
39.05	Large dry wash, 20 ft. deep, 115 lks. wide, drains S. 15° E.
39.90	The ¼ cor. of secs. 3 and 10, mkd. by a stone, 6x12x20 ins., firmly set, with ¼ grooved on N. face.
	At the cor. point
	Set an iron post, 30 ins. long, 2½ ins. diam., 24 ins. in the ground with brass cap mkd.
	T38S R2W ¼ S 3 S10 1960
	Bury old cor. stone, alongside iron post.
	S. 89° 56' W., beginning new measurement.
14.94	Top of small spur, bears S. 20° E.
16.73	Old road, bears N. 40° W. and S. 40° E.
36.33	Dry wash, 3 ft. deep, 20 lks. wide, drains S.
40.03	The cor. of secs. 3, 4, 9 and 10.
	Land, ledges E. 20 chs., remainder rolling hills. Soil, ledges, rocks, gravel and loam. Vegetation, juniper, pinon and sagebrush.
	From the cor. of secs. 2, 3, 10 and 11.
	N. 1° 06' E., bet. secs. 2 and 3.
	Over rough ledges.
15.30	Desc. rough N. slope.
20.00	Bottom of rough canyon, drains W.; asc. rough SW. slope.
40.25	Point for the ¼ sec. cor. of secs. 2 and 3, at proportionate dist. Note: This position cannot be used and there are no other points available for a considerable dist. N. or S., therefore it is offset 9.16 chs. W.
	At the offset point
	Set an iron post, 30 ins. long, 2½ ins. diam., 24 ins. in the ground with brass cap mkd.
	S38S R2W ¼ S 3 | S 2 WC 1960
	Along a rough W. slope.
69.90	Rim of canyon bears S. 45° E. and N. 45° W.; over top of hill.

Dependent Resurvey, Portion of Subdivision, T. 38 S., R. 2 W.

Chains	
80.60	The cor. of secs. 2, 3, 34 and 35 on N. bdy. of Tp. Land, rough and broken. Soil, ledges and rocky. Vegetation, scattered juniper and pinon on N. 10 chs.
	From the cor. of secs. 3, 4, 9 and 10. N. 0° 59' E., bet. secs. 3 and 4. Over rolling hills, through scattered cedars and pinon.
14.20.	Dry wash, 8 ft. deep, 15 lks. wide, drains S. 60° E.
20.86	Old road, bears N. 40° E. and S. 40° W.
40.22	The ¼ sec. cor., mkd. by a sandstone, 6x10x12 ins., firmly set, with ¼ mkd. 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. ¼ S 4 | S 3 1960 from which A cedar 11 ins. diam., bears N. 21° E., 68 lks. dist., mkd. ¼ S. BT. A pinon 16 ins. diam., bears N. 61° W., 62 lks. dist., mkd. ¼ S BT. Bury old cor. stone alongside iron post.
	N. 1° 01' E., beginning new measurement. Cont. over rolling hills.
10.20	Asc. steep, rough S. slope.
18.65	Top of ascent, narrow spur bears W.; desc. rough N. slope.
35.07	Bottom of small canyon, drains W.; asc. steep S. slope.
38.07	Rim of canyon bears E. and N. 10° W.; thence over hill top.
40.07	The cor. of secs. 3, 4, 33 and 34, on the N. bdy. of the Tp. Land, rolling hills on S. ½ mile, steep rough hills N. ½ mile. Soil, rocky. Vegetation, cedar and pinon.

Portion of Subdivis T. 38 S. R. 2 W.

Chains	
	From the cor. of secs. 9, 10, 15 and 16.
	N. 89° 07' W., bet. secs. 9 and 16.
	Over rolling hills, through scattered juniper, pinon and sagebrush.
3.03	Dry wash, 3 ft. deep, 10 lks. wide, drains S. 15° E.
5.30	Dry wash, 4 ft. deep, 22 lks. wide, drains S. 15° E.
12.28	S. side of bare knob; desc. SW. slope.
22.35	Dry wash, 7 ft. deep, 25 lks. wide, drains S. 15° W.
30.45	Four strand barbed wire fence, bears N. 15° W. and S. 15° E.
39.75	The ¼ sec. cor. of secs. 9 and 16, mkd. by a sandstone, 6x8x12 ins. firmly set, with ¼ grooved on N. face.
	At the cor. point
	Set an iron post, 30 ins. long, 2½ ins. diam., 24 ins. in the with brass cap mkd.

T38S R2W
¼ S 9 / S16
1960

from which

A cedar 10 ins. diam., bears N. 78° E., 105 lks. dist., mkd. ¼ S BT.

A cedar 11 ins. diam., bears S. 26° E., 87 lks. dist., mkd. ¼ BT.

Bury old cor. stone alongside iron post.

	S. 89° 45' W., beginning new measurement.
4.50	Edge of ridge, bears N. and S.; desc. gradual W. slope.
38.00	Dry wash, 7 ft. deep, 80 lks. wide, drains S. 20° E.
39.72	The cor. of secs. 8, 9, 16 and 17, mkd. by a small pile of stones, with old cedar post lying alongside.
	At the cor. point
	Set an iron post, 30 ins. long, 2½ ins. diam., 24 ins. in the with brass cap mkd.

T38S R2W

S 8	S 9
S17	S16

1960

Land, rolling hills.
Soil, gravel and loam.
Vegetation, juniper, pinon and sagebrush.

Dependent Resurvey, Portion of Subdivision, T. 38 S., R. 2 W.

Chains	
	The ¼ cor. of secs. 16 and 17 is mkd. by a sandstone, 5x10x14 ins., firmly set with ¼ grooved on W. face.
	At the cor. point
	Set an iron post, 30 ins. long, 2½ ins. diam., 6 ins. in the ground and in a mound of stone to top, with brass cap mkd.
	T38S R2W ¼ S17 | S16 1960
	from which
	A cedar tree 11 ins. diam., bears S, 21° E., 130 lks. dist., mkd. ¼ S BT.
	A cedar 13 ins. diam., bears S. 65° W., 70 lks. dist., mkd. ¼ S BT.
	Bury old cor, stone alongside iron post.
	N. 0° 27' E., bet. secs. 16 and 17.
	Over rolling hills, through scattered pinon, juniper and sagebrush.
33.58	Main access road into this country, bears S. 85° E., and N. 60° W.
39.64	The cor. of secs. 8, 9, 16 and 17.
	from which
	The cor. of secs. 7, 8, 17 and 18, bears N. 89° 26' W., 80.19 chs. dist., mkd. by a limestone, 8x10x15 ins., firmly set, with 5 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.
	T38S R2W S 7 | S 8 S18 | S17 1960
	Bury old cor. stone alongside iron post.
	Land, rolling hills. Soil, gravel and loam. Vegetation, scattered pinon, juniper and sagebrush.
	From the cor. of secs. 8, 9, 16 and 17.
	N. 0° 26' W., bet. secs. 8 and 9.
	Over rolling hills.
10.12	Four strand barbed wire fence, bears N. 71° 45' E. and S. 71° 45' W.
38.62	Old road, bears N. 70° E. and S. 70° W.
39.37	The ¼ sec. cor. of secs. 8 and 9, mkd. by a sandstone, 6x8x12 ins. firmly set, markings eroded off.
	At the cor. point

Chains	
	Set an iron post, 30 ins. long, 2½ ins. diam., 24 ins. in the with brass cap mkd.
	T38S R2W ¼ S 8 | S 9 1960
	from which,
	A cedar 13 ins. diam., bears S. 87° E., 87 lks. dist., mkd. ¼ S BT.
	A cedar 15 ins. diam., bears N. 7° W., 36 lks. dist., mkd. ¼ S BT.
	Bury old cor. stone alongside iron post.
	N. 0° 14' E., beginning new measurement.
33.42	Spur, bears S. 45° E.
36.00	Dry wash, 5 ft. deep, drains S. 45° E.
40.34	The cor. of secs. 4, 5, 8 and 9, mkd. by a sandstone, 3x8x10 ins., firmly set, with original marks eroded off, but bearing trees
	At the cor. point
	Set an iron post, 30 ins. long, 2½ ins. diam., 24 ins. in the g. with brass cap mkd.
	T38S R2W S 5 | S 4 S 8 | S 9 1960
	from which
	A cedar 12 ins. diam., bears N. 52° E., 44 lks. dist., mkd. T38S R2W S4 BT.
	A cedar 11 ins. diam., bears S. 24° E., 43 lks. dist., mkd. T38S R2W S9 BT.
	A cedar 20 ins. diam., bears N. 77° W., 24 lks. dist., mkd. T38S R2W S5 BT.
	Bury old cor. stone alongside iron post.
	Land, rolling hills. Soil, gravel and loam. Vegetation, pinon, juniper and sagebrush.
	From the cor. of secs. 3, 4, 9 and 10.
	N. 89° 52' W., bet. secs. 4 and 9.
	Over rolling hills.
17.83	Four strand barbed wire fence, bears N. and S.
30.00	Dry wash, 6 ft. deep, 15 lks. wide, drains S. 15° E.

Chains	
31.30	Top of small knoll.
39.90	The ¼ sec. cor. of secs. 4 and 9, mkd. by a 12x12x4 ins. stone, firmly set, with ¼ grooved on N. face.
	At the cor. point
	Set an iron post, 30 ins. long, 2½ ins. diam., 24 ins. in the ground, with brass cap mkd.
	T38S R2W ¼ S 4 / S 9 1960
	from which
	A cedar 18 ins. diam., bears S. 10° W., 36 lks. dist., mkd. ¼ S BT.
	A cedar 10 ins. diam., bears N. 22° W., 80 lks. dist., mkd. ¼ S BT.
	Bury old cor. stone alongside iron post.
	S. 89° 35' W., beginning new measurement.
21.20	Dry channel 2.30 chs. wide, 12 ft. deep, drains S.
29.00	Dry wash, 20 lks. wide, 9 ft. deep, drains S. 50° E.; asc. 60 ft. over E. slope.
35.95	Ridge bears S.; desc. 60 ft. over W. slope.
39.70	Bottom of slope.
39.89	The cor. of secs. 4, 5, 8 and 9.
	Land, rolling hills. Soil, gravel and sand. Vegetation, juniper, pinon and sagebrush.
	N. 0° 42' E., bet. secs. 4 and 5.
	Asc. 100 ft. over broken hills.
11.65	Ridge, bears E.; desc. 70 ft. over gradual N. slope.
40.00	Dry wash, 12 lks. wide, 4 ft. deep, drains S. 30° E.
40.11	Point for ¼ sec. 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., 24 ins. in the ground, with brass cap mkd.
	T38S R2W ¼ S 5 | S 4 1960
	Over rolling hills.

Dependent Resurvey, Portion of Subdivision, T. 38 S., R. 2 W.

Chains	
50.00	Asc. 150 ft. over rough ledges.
61.01	Top of ascent; over nearly level tableland.
80.46	The cor. of secs. 4, 5, 32 and 33, on the N. bdy. of the Tp.

Land, S. 60 chs., rough, broken hills; N. 20 chs., nearly level.
Soil, gravel, rocks and sand.
tation, juniper, pinon, sagebrush and scattered bunch grass.

General Description

The area dependently resurveyed is known as the Kodachrome Flats is located several miles south of the town of Henrieville. The portion of this area is a high narrow strip of tableland, extending east and west, with its north and south rim breaking into almost vertical deep ledges to the flats below. The elevation above sea level is approximately 7,000 feet on the upper country and 6,500 on the lower country. The general drainage of the area is souther

The soil is fine sand, loam and sandstone, the vegetation being juniper, pinon, sagebrush and bunch grass.

A main dirt road comes in southwesterly from Cannonville extending in an easterly direction about a quarter of a mile south of the s boundary of the area. From this road, a road branches north the center of the area and extends to ledges which are a scenic si

These four sections enclose the area known as the Kodachrome Flats, which will be a state park.

4-[illegible]
(Feb., 1960)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FIELD ASSISTANTS

NAMES	CAPACITY
William R. Savage	Rear chain - notes
Leonard W. Murphy	Head chainman
Elbert O. Jensen	Cornerman
Norman R. Workman	Axeman
Ashley D. Allen	Flagman

180

CERTIFICATE OF CADASTRAL ENGINEER

I, Woodrow H. Sylvester, HEREBY CERTIFY upon honor that, in pursuance of special instructions bearing date of the 16th day of September, 1[illegible], I have ~~surveyed~~ dependently resurveyed a [illegible]ion of the north boundary and a [illegible] of the subdivision of T. 38 S., R. 2 W.

of the Salt Lake Meridian, in the State of Utah, which [illegible] represented in the foregoing field notes as having been executed by me and under my direction; and [illegible] said survey has been made in strict conformity with said instructions, the Manual of Instructions for [illegible] 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

February 23, 1961

Woodrow H. Sylvester
Cadastral Surveyor

CERTIFICATE OF APPROVAL

BUREAU OF LAND MANAGEMENT,

Washington, D. C., APR 16 1962, *19*

The foregoing field notes of the ~~survey of~~ dependent resurvey of a portion of the north boundary and a portion of the subdivision of T. 38 S [illegible] 2 [illegible] Meridian, Utah

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], is a true copy of the original [illegible].

U. S. GOVERNMENT PRINTING OFFICE 16—53565-2

4—679
(September 1948)

181

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

ORIGINAL

FIELD NOTES

OF THE

SURVEY

OF A PORTION OF THE SUBDIVISION

OF

TOWNSHIP 38 SOUTH, RANGE 1 EAST

Of the Salt Lake *Meridian,*

In the State of Utah

EXECUTED BY

Woodrow H. Sylvester, Cadastral Surveyor

Under special instructions dated September 16, *19*59, *which provided for the surveys included under Group No.* 433, *approved* October 1, 1959 *and assignment instructions dated* July 1, *19*60

Survey commenced August 4, *19* 60

Survey completed August 4, *19* 60

INDEX DIAGRAM

Township 38 South, *Range* 1 East

6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30 1	29	28	27	26	25
31	32	33	34	35	36

GPO 866119

38 South 1 East

Chains

The west boundary of the township was surveyed by Andrew Nelson in 1918. The south and east boundaries and a portion of the subdivisional lines of T. 38 S., R. 1 E. were surveyed by Fred R. Chappell in 1956. The north boundary was surveyed by George Rigby and E. S. C. Smith in 1922 and partially retraced by Fred R. Chappell in 1956.

The following field notes are those of a survey of a portion of the subdivisional lines of T. 38 S., R. 1 E.

Refer to introductory statements of T. 39 S., R. 1 E. for more details--both townships were under the same group number and were surveyed by the same crew in consecutive order.

The geographic position of the southeast corner of section 31 is latitude 37° 27' 23" N., longitude 111° 49' 58" W. as determined through a section line tie to the southeast corner of the township.

The mean magnetic declination is 15° 30' E.

Survey of a Portion of the Subdivision of T. 38 S., R. 1 E.

Beginning at the cor. of secs. 29, 30, 31 and 32, which is monumented with a 2½ in. iron post, firmly set, mkd. and witnessed as described in the official record.

West, bet. secs. 30 and 31.

Over rolling hills through thick juniper and pinon.

13.50 Desc. 70 ft. over W. slope.

22.00 Dry wash, drains S. 45° E.; asc. 80 ft. over E. slope.

31.10 Top of slope.

33.85 Intersect Salt Lake Meridian.

Point for the closing cor. of secs. 30 and 31.

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

T38S
S30 / S31 CC
R1E
1960

Raise a mound of stone to W.

From point of intersection the ¼ cor. of sec. 25, T. 38 S., R. 1 W. on Salt Lake Meridian, monumented by an iron post, 1 in. diam., set, mkd. and witnessed as described in the official record, bears S.2.08 chs.
Land, rolling hills.
Soil, sand and gravel.
Vegetation, thick juniper and pinon.

At midpoint on the W. bdy. of sec. 31 point for the ¼ sec. cor.

At the cor. point

Set an iron post, 30 ins. long, 2½ ins. diam., 24 ins. in the ground, with brass cap mkd.

Survey, Portion of Subdivision, T. 38 S., R. 1 E.

Chains

T38S
R1E
S31
1960

From the above cor. point the cor. of secs. 25 and 36, on the E. bdy. of T. 38 S., R. 1 W., bears S. 2.12 chs., monumented by an iron post, 2 ins. diam., set, mkd. and witnessed as described in the official record.

General Description

This portion of T. 38 S., R. 1 E. only encloses section 31. It is located approximately two miles south and ten miles east of Henrieville.

The terrain is rolling hills covered with thick juniper, pinon and sagebrush. The elevation is approximately 6,000 feet above sea level. The general drainage is southwesterly. The soil is sand gravel and bedrock.

The basic use for this area will be as a Utah State Park.

4-690
(Feb., 1950)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FIELD ASSISTANTS

NAMES	CAPACITY
Woodrow H. Sylvester	Chief of Party
William R. Savage	Rear Chainman - notes
Leonard W. Murphy	Head chainman
Elbert O. Jensen	Cornerman
Norman R. Workman	Axeman
Ashley D. Allen	Flagman

CERTIFICATE OF CADASTRAL ENGINEER

I, Woodrow H. Sylvester, HEREBY CERTIFY upon honor that, i pursuance of special instructions bearing date of the 16th day of September, 1 I have surveyed a portion of the subdivision of T. 38 S., R. 1 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 i field notes.

Salt Lake City, Utah

February 17, 1961

Woodrow H. Sylvester

Woodrow H. Sylvester, Cadastral

CERTIFICATE OF APPROVAL

BUREAU OF LAND MANAGEMENT,

Washington, D. C., APR 16 1962, *19*

The foregoing field notes of the survey of a portion of the subdivision of T. 38 S., R. 1 E., Salt Lake Meridian, Utah

executed by Woodrow H. Sylvester, Cadastral Surveyor

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

E E Lemmington

Chief, Division of Engineeri

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

4—879
(September 1948)

187

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

ORIGINAL

FIELD NOTES

OF THE

SURVEY

OF A PORTION OF THE SUBDIVISION

OF

TOWNSHIP 39 SOUTH, RANGE 1 EAST

Of the Salt Lake *Meridian,*

n the State of Utah

EXECUTED BY

Woodrow H. Sylvester, Cadastral Surveyor

Inder special instructions dated September 16, *19*59, *which provided*

or the surveys included under Group No. 433, *approved* October 1, 1959

nd assignment instructions dated July 1, *19* 60

Survey commenced July 27, *19* 60

Survey completed August 3, *19* 60

INDEX DIAGRAM

Township 39 South, *Range* 1 East

6 5	4 5 3	3 4 2	3	2	1
7	8	1 9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

GPO 866119

Township 39 South, Range 1 East

Chains	
	The west boundary of the township was surveyed by Robert C. Yundt in 1948. The south, east and north boundaries and a portion of the subdivision of T. 39 S., R. 1 E. were surveyed by Fred R. Chappell in 1956.
	The following field notes are those of a survey of a portion of the subdivision of T. 39 S., R. 1 E.
	The survey was requested by the Utah State Park Commission to identify the boundaries of a proposed park known as Grosvenor Arch.
	The survey was executed with W. & L. E. Gurley transits, serial No. 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 section 8, which is the southeast corner of the portion of the township to be surveyed is latitude 37° 25' 38" N., longitude 111° 48' 52" W., as determined through a section line tie to the southeast corner of the township.
	The mean magnetic declination is 15° 30' E.
	Survey of a Portion of the Subdivision of T. 39 S., R. 1 E.
	Beginning at the cor. of secs. 8, 9, 16 and 17, which is monumented with a 2½ in. iron post firmly set, mkd. and witnessed as described in the official record.
	N. 0° 03' W., bet. secs. 8 and 9.
	Over rolling hills and small ledges.
1.14	Dry wash, 60 lks. E. from line, drains S. 15° E. Bladed dirt road, 60 lks. E. from line, bears S. 15° E. and N. 15° W.
7.50	Dry wash, drains S. 20° E.
7.78	Bladed road, bears N. 20° W. and S. 20° E.; thence asc. 80 ft. over steep SW. slope.
14.97	Top of ascent, thence over gradual S. slope.

Survey Portion of Subdivision T. 39 S. R. 1 E.

Chains	
19.47	Barbed wire fence, bears E. and W.
40.00	Point for the ¼ sec. cor. of secs. 8 and 9.
	Set an iron post, 30 ins. long, 2½ ins. diam., 4 ins. in the ground, and in a mound of stone to top, with brass cap mkd.

T39S R1E
¼
S 8 | S 9
1960

from which

A pinon 12 ins. diam., bears N. 77° W., 46 lks. dist., mkd. ¼ S8 BT.

A pinon 13 ins. diam., bears N. 84° 30' E., 47 lks. dist., mkd. ¼ S9 BT.

46.27	Bladed dirt road, bears S. 65° W. and N. 65° E.
63.85	Bladed dirt road, bears N. 40° W. and S. 40° E.
72.84	Main access road from Cannonville to grazing area, bears E. and W.
80.00	Point for the cor. of secs. 4, 5, 8 and 9.
	Set an iron post, 30 ins. long, 2½ ins. diam., 4 ins. in the ground and in a mound of stone to top, with brass cap mkd.

T39S R1E
S 5 | S 4
S 8 | S 9
1960

from which

A pinon 6 ins. diam., bears N. 44° E., 36 lks. dist., mkd. T39S R1E S4 BT.

A pinon 20 ins. diam., bears N. 89° 15' W., 129 lks. dist., mkd. T39S R1E S5 BT.

Land, rolling hills and small ledges.
Soil, gravel and rocks.
Vegetation, pinon, juniper, brush and bunch grass.

From the cor. of secs. 3, 4, 9 and 10.

S. 89° 56' W., bet. secs. 4 and 9.

Over gradual E. slope, through pinon and juniper.

20.43	Dry wash, 30 lks. wide, 4 ft. deep, drains S. 80° E.
26.24	Asc. NE. slope.
40.02	Point for the ¼ sec. cor. of secs. 4 and 9.
	Set an iron post, 30 ins. long, 2½ ins. diam., on bedrock and in a mound of stone to top, with brass cap mkd.

Survey, Portion of Subdivision, T. 39 S., R. 1 E.

Chains	
	T39S R1E ¼ S 4 S 9 1960
40.10	Top of hill, thence desc. W. slope.
53.36	Dry wash, 15 lks. wide, 4 ft. deep, drains S. 15° E.; asc. NE. slope.
80.04	The cor. of secs. 4, 5, 8 and 9.
	Land, rolling hills on E. slope. Soil, gravel and rocks. Vegetation, pinon, juniper, brush and bunch grass.
	N. 0° 01' E., bet. secs. 4 and 5.
	Over rough broken sandstone ledge, through scattered pinon and juniper.
40.00	Point for the 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 to top, with brass cap mkd.
	T39S R1E ¼ S 5 | S 4 1960
	from which
	A pinon 8 ins. diam., bears N. 23° 30' E., 34 lks. dist., mkd. ¼ S4 BT
	A pinon 7 ins. diam., bears N. 70° W., 28 lks. dist., mkd. ¼ S4 BT
41.63	Desc. 150 ft. over rough sandstone ledges.
57.00	Bottom of descent, canyon drains E.; asc. 160 ft. over rough broken sandstone ledges.
81.08	The cor. of secs. 4, 5, 32 and 33, Tps. 38 and 39 S., R. 1 E., which is a brass cap, set in bedrock, mkd. and witnessed as described in the official record.
	Land, over rough broken ledges. Soil, rocks and ledges. Vegetation, scattered pinon and juniper.
	From the cor. of secs. 4, 5, 8 and 9.
	S. 89° 54' W., bet. secs. 5 and 8.
	Asc. rough E. slope, through scattered pinon and juniper.
11.25	Dry wash, 15 lks. wide, 2 ft. deep, drains S. 10° E.; asc. rough broken sandstone ledges.
23.79	Top of ascent, ridge bears N. and S.; desc. 140 ft. over steep W. slope.
28.83	Improved dirt road, from Cannonville to grazing area, bears S. 10° E. and N. 10° W.; cont. steep descent.

Portion of Subdivis. T. 39 S., R. 1 E.

Chains	
38.03	Dry wash, 30 lks. wide, 10 ft. deep, drains N. 10° W. and S. 10° E.
40.00	Point for the ¼ sec. cor. of secs. 5 and 8.
	Set an iron post, 30 ins. long, 2½ ins. diam., 5 ins. in the ground and in a mound of stone to top, with brass cap mkd.
	T39S R1E ¼ S 5 / S 8 1960
	Asc. 350 ft. over rough E. slope.
50.31	Top of steep ascent, thence over rolling hill top, through thick cedars and juniper.
74.97	Dry wash, 15 lks. wide, 2 ft. deep, drains S. 45° W.
80.00	Point for the cor. of secs. 5, 6, 7 and 8.
	Set an iron post, 30 ins. long, 2½ ins. diam., 5 ins. in the ground and in a mound of stone to top, with brass cap mkd.
	T39S R1E S 6 | S 5 S 7 | S 8 1960
	from which
	A cedar 10 ins. diam., bears S. 89° 15' E., 5 lks. dist., mkd. T39S R1E S8 BT
	A cedar 14 ins. diam., bears N. 5° E., 20 lks. dist., mkd. T39S R1E S5 BT
	Land, rough mountains and canyon known as Cock's Comb. Soil, rocks and ledges. Vegetation, juniper, pinon and sagebrush.
	N. 0° 03' W., bet. secs. 5 and 6.
	Over broken land, through sagebrush, pinon and juniper.
8.05	Dry wash, 15 lks. wide, 5 ft. deep, drains S. 40° W.; thence asc. ft. on steep S. slope.
18.00	Top of hill; desc. NW. slope.
26.50	Foot of hill; over rolling hills.
40.00	Point for the ¼ sec. 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 to top, with brass cap mkd.
	¼ S 6 | S 5 1960
	from which
	A cedar 14 ins. diam., bears S. 68° W., 39 lks. dist., mkd. ¼ S6 BT

Survey, Portion of Subdivision, T. 39 S., R. 1 E.

Chains	
45.50	Dry wash, 20 lks. wide, 5 ft. deep, drains S. 15° W.
59.26	Dry wash, 35 lks. wide, 9 ft. deep, drains S. 15° W.
68.56	Main access road from Cannonville to range country, bears E. and W.
81.35	The cor. of secs. 5, 6, 31 and 32, Tps. 38 and 39 S., R. 1 E., mkd. and witnessed as described in the official record,
	from which
	The Grosvenor Arch bears S. 86° 17' E., 7.70 chs. dist.
	Land, rolling and broken. Soil, sandy loam. Vegetation, sagebrush, juniper and pinon.
	From the cor. of secs. 5, 6, 7 and 8,
	S. 89° 54' W., bet. secs. 6 and 7.
	Over rolling hills, through thick juniper and pinon.
25.97	Leave dense timber, enter thick sagebrush.
34.01	Intersect Salt Lake Meridian.
	Point for the closing cor. of secs. 6 and 7.
	Set an iron post, 30 ins. long, 2½ ins. diam., 24 ins. in the ground, with brass cap mkd.
	R39S S 6 / S 7 CC R1E 1960
	Raise a mound of stone to W.
	From point of intersection the cor. of secs. 1, 6, 7 and 12 on Salt Lake Meridian, mkd. and witnessed as described in the official record bears S., 27 lks., remarked
	T39S R1W S 1 / S12 1948 1960
	It now functions as secs. 1 and 12 only.
	Land, rolling hills. Soil, sand and gravel. Vegetation, thick juniper, pinon and sagebrush.
	The point for the ¼ sec. cor. of sec. 6 on the W. bdy. of the Tp. (Salt Lake Meridian) at 40.00 chs. northing from the closing cor. of secs. 6 and 7.
	At the cor. point

Survey, Portion of Subdivision, T. 39 S., R. 1 E.

Chains

Set an iron post, 30 ins. long, 2½ ins. diam., 24 ins. in the ground, with brass cap mkd.

T39S
R1E
¼
S 6
1960

From the above cor. point the cor. of Tps. 38 and 39 S., R. 1 W., monumented by an iron post, 3 ins. diam., as described in the official record, bears S. 0.85 chs. dist.

General Description

This area, which is located approximately three miles south and ten miles east of Henrieville, encloses Grosvenor Arch and part of the Cock's Comb. The portion of land east of the west boundary of section 6 has large rolling hills on a southeast slope; the western portion has rough steep hills and canyons. The elevation above sea level varies from approximately 5,200 feet in the canyons to 6,000 feet on the hill tops. The general drainage is southerly.

The soil is sand, gravel, rocks and bedrock, vegetation being j pinon, sagebrush and bunch grass.

A main dirt access road comes in from Cannonville, entering near the northwest corner of section 6 and leaving near the west quarter corner of section 9. A branch forks off at a point approximately ten chains south of the northwest corner of section 9 and winds southerly, leaving section 9 at a point three chains east of the southwest corner of section 9.

The basic use of this area will be as a Utah State Park.

4-680
(Feb., 1950)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FIELD ASSISTANTS

NAMES	CAPACITY
Woodrow H. Sylvester	Chief of Party
William R. Savage	Rear chain - notes
Leonard W. Murphy	Head chainman
Elbert O. Jensen	Cornerman
Norman R. Workman	Axeman
David J. Cummings	Flagman

135

CERTIFICATE OF CADASTRAL ENGINEER

I, Woodrow H. Sylvester, HEREBY CERTIFY upon honor that, pursuance of special instructions bearing date of the 16th day of September, I have surveyed a portion of the subdivision of T. 39 S., R. 1 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 field notes.

Salt Lake City, Utah

February 16, 1961

Woodrow H. Sylvester
Cadastral Surveyor

CERTIFICATE OF APPROVAL

BUREAU OF LAND MANAGEMENT,

Washington, D. C., APR 1 6 1962, *19*

The foregoing field notes of the survey of a portion of the subdivision of T. 39 S., R. 1 E., Salt Lake Meridian, Utah

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], is a true copy of the [illegible]

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 SUBDIVISION

AND THE SURVEY

OF A PORTION OF THE SUBDIVISION

OF

TOWNSHIP 9 SOUTH, RANGE 8 WEST

Of the Salt Lake *Meridian,*

In the State of Utah

EXECUTED BY

Boyd S. Owens, Cadastral Surveyor

Under special instructions dated May 5, *19*60, *which provided for the surveys included under Group No.* 438, *approved* May 18, 1960 *and assignment instructions dated* May 18, *19*60

Survey commenced July 29, *19*60

Survey completed August 10, *19*60

INDEX DIAGRAM

Township 9 South, *Range* 8 West

6	5	4	3	2	1
7	8	9 8	10	11	12
18	17	9 16 9	7 15	14	13
19	20	21	22	23	24
30 5	29 5	28	27	26	25
31 2	4 32	3 33	34	35	36

GPO 866110

Towns 9 South, 8 West

Chains

The boundaries and a portion of the subdivision of T. 9 S., R. 8 W. were surveyed by A. J. Stewart Jr. in 1872. These surveys are shown upon the township plat approved April 17, 1873. The south boundary was resurveyed by Clark and Bird in 1947 as shown on the plat of T. 10 S., R. 8 W. The west boundary was partially resurveyed by Clark and Bird in 1947 and the remainder was resurveyed by E. Bird in 1950, as shown on the plats of T. 10 S., R. 8 W. and T. 9 S., R. 9 W., respectively.

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 original survey of a portion of the subdivision of T. 9 S., R.8 W.

Before restoring corners the lines of the original survey were retraced and diligent search made for any evidence of the original corners. When duly identified the corner positions were remonumented and new accessories taken.

The rules of proportionate measurement were applied in order to ascertain the position of lost corners. This was done 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 retracement data were submitted for office examination and verification prior to the conclusion of the field work. In order to simplify the record only the true line notes, which refer to the completed survey, are supplied herewith.

The survey was executed with a W. & L. E. Gurley solar transit No. 591189 constructed in accordance with standard 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.

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 numerous altitude observations on the sun taken throughout the progress of the survey.

The geographic position for the corner of sections 32 and 33 on the south boundary of the township is at latitude 39° 59' 01.25" N. and longitude 112° 45' 35.75" W., as determined by computation and scaling from U. S. G. S. topographic maps.

The magnetic declination was read at a number of stations throughout the township and the average of these readings was found to be 17° E.

Resurvey, Portion of S. [illegible], T. 9 S., R. 8 W.

Chains	
	Dependent Resurvey of a Portion of the South Boundary, T. 9 S., R. 8 W.
	Reestablishment of the survey executed by Clark and Bird in 1947.
	Beginning at the cor. of secs. 5, 6, 31 and 32 on the S. bdy. of the Tp., mkd. by a 2 in. iron post, firmly set, mkd. and witnessed as described in the official record.
	S. 89° 55' W., bet. secs. 6 and 31.
	Over gently rolling land through moderate juniper.
	Desc. 40 ft. along gentle N. slope.
7.10	Wash, 100 lks. wide, 2 ft. deep, drains S. 80° W.; desc. 30 ft. along bottom of wash.
16.80	Leave wash; desc. 120 ft. over gently rolling land through scattered juniper.
36.90	Wash, 50 lks. wide, 2 ft. deep, drains W.; desc. 10 ft. along the bottom on S. side of main channel.
39.32	The monument, set in 1947 to function as the ¼ sec. cor. of sec. 6, T. 10 S., R. 8 W., a 1 in. iron post, conforming to the official record. This cor. was removed and destroyed.
40.00	The monument, set to function as the ¼ sec. cor. of sec. 31, T. 9 S., R. 8 W., mkd. by a 1 in. iron post, firmly set and plainly mkd.; this cor. now functions as the ¼ sec. cor. of secs. 6 and 31, mkd.
	T9S R8W ¼ S31/S 6 T10S 60 1946
	from which
	A juniper, 10 ins. diam., bears S. 82° 42' E., 3.21 chs. dist., mkd. ¼ S6 BT.
	Thence
	S. 89° 55' W., bet. secs. 6 and 31, continuing measurement.
51.40	Unimproved road, bears N. and S.; desc. 40 ft. over gently rolling bench land, no timber.
63.70	Wash, 30 lks. wide, 3 ft. deep, drains S. 70° W.
64.50	Road, bears NW. and SE.; desc. 30 ft. over nearly level bench land.
68.60	Wash, 30 lks. wide, 3 ft. deep, drains N. 70° W.; desc. 60 ft.
81.36	The closing cor. of Tps. 9 and 10 S., R. 8 W. an iron post conforming to the record.
	Land, gently rolling.
	Soil, gravel and rocks.
	Timber, moderate juniper on E. ½ mile.

Chains	
	Dependent Resurvey of a Portion of the Subdivision of T. 9 S., R. 8 W.
	Reestablishment of the survey executed by A. J. Stewart Jr. in 1872.
	Beginning at the cor. of secs. 4, 5, 32 and 33, Tps. 9 and 10 S., R. 8 W., an iron post, 2 ins. diam., set, mkd. and witnessed as described in the official record of the dependent resurvey of the south boundary of T. 9 S., R. 8 W.
	N. 2° 42' W., bet. secs. 32 and 33.
	Over rolling land, through moderate timber.
	Desc. 40 ft. over N. slope.
3.40	Wash, 1.00 ch. wide, 2 ft. deep, drains SW.; asc. 120 ft. over S. slope.
14.00	Unimproved road, bears NE. and SW.; asc. 10 ft.
14.50	Spur, slopes SW.; desc. 30 ft. over NW. slope.
20.10	Gully, drains NW.; desc. 20 ft.
26.50	Wash, 30 lks. wide, 3 ft. deep, drains SW.; asc. 90 ft. over rolling SW. slope.
34.90	Draw, near head, drains SW.; asc. 70 ft. over general S. slope.
40.04	Point for the ¼ sec. cor. of secs. 32 and 33 at proportionate dist.; there is no remaining evidence of the original stone cor.
	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. T9S R8W ¼ S32 | S33 1960
	Asc. 100 ft. over S. slope.
45.00	Spur, projects SW.; asc. 300 ft. over broken land, SW. drainage and exposure.
67.00	Top of ascent on W. side of spur sloping S. 10° E; desc. 120 ft. along NW. slope.
79.50	Bottom of canyon, drains SW.; asc. 10 ft. over general E. slope.
80.09	Point for the cor. originally set to function as the cor. of secs. 28, 29, 32 and 33, at record dist. northing from the cor. of secs. 4, 5, 32 and 33, and record dist. westing from the ¼ sec. cor. of secs. 27 and 34. There is no remaining evidence of the original stone cor. This cor. now functions as the cor. of secs. 32 and 33 only.
	At the cor. point
	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. S32 | S33 T9S R8W 1960
	Land, rolling, mountainous. Soil, clay loam and rocks. Timber, moderate juniper.

Portion T. 9 S., R. 8 W.

Chains	
	From this cor. the ¼ sec. cor. of secs. 27 and 34, bears S.88° 54' E. 120.18 chs. dist., mkd. by a stone, 14x12x4 ins., firmly set and plainly mkd. ¼ on N. face.
	Raise a mound of stone, 3 ft. base, 2 ft. high, N. of the cor.
	Survey of a Portion of the Subdivision of T. 9 S., R. 8 W.
	Beginning at the cor. of secs. 5, 6, 31 and 32, an iron post, 2 ins. diam., described in the official record of the survey of the S. bdy. of T. 9 S., R. 8 W.
	North, on an original survey, bet. secs. 31 and 32.
	Over rolling land through scattered timber.
2.40	Wash, 1.00 ch. wide, 1 ft. deep, drains irregularly W.; asc. 50 ft. over S. slope.
5.60	Top of ascent, bears E. and W.; desc. 10 ft. over gentle N. slope.
10.80	Wash, 50 lks. wide, 2 ft. deep, drains irregularly W.; asc. 50 ft. over gently rolling land.
17.50	Wash, drains SW.; asc. 10 ft. over SE. slope.
21.50	Finger spur, slopes SW.; desc. 30 ft. over NW. slope.
23.20	Wash, 30 lks. wide, 2 ft. deep, drains SW.; asc. 300 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., 6 ins. in the ground and in a mound of stone, 3½ ft. base, to top, with brass cap mkd.
	T9S R8W ¼ S31 | S32 1960
	Asc. 50 ft. over S. slope.
43.40	Top of ascent on spur sloping from NE.; desc. 90 ft. along rolling W. slope.
56.00	Wash, 50 lks. wide, 2 ft. deep, drains SW.; asc. 430 ft. over steep rolling SE. slope.
76.10	Spur, slopes S. 20° W.; desc. 30 ft. along steep W. slope.
80.00	Point for the cor. of secs. 31 and 32.
	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.
	S31 | S32 T9S R8W 1960
	Land, rolling and mountainous. Soil, rocky clay loam and limestone outcrops. Timber, scattered juniper.

of Subdivision, T. 9 R. 8 W.

Chains	
	From the corner of secs. 32 and 33, previously described.
	N. 89° 56' W., along the N. bdy. of sec. 32.
	Over rolling, mountainous land, through moderate timber.
	Asc. 90 ft. over SE. slope.
7.00	Top of ascent; desc. 50 ft. over W. slope.
10.40	Draw, drains S. 20° E., heads about 5.00 chs. N.; asc. 70 ft. over E. slope.
14.00	Spur, slopes S.; cont. along rolling. S. slope.
19.60	Spur, slopes S.; desc. 80 ft. over W. slope.
24.20	Draw, about 8.00 chs. from head, drains S.; asc. 10 ft. over E. slope.
25.80	Finger spur, slopes S.; cont. along S. slope.
30.70	Spur, slopes S.; desc. 180 ft. over W. slope.
36.60	Wash, 20 lks. wide, 2 ft. deep, drains S.; asc. 60 ft. over E. slope.
40.00	Point for the N. 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, 3 ft. base to top, with brass cap mkd. ¼ S32 T9S R8W 1960
	Cor. is located on finger spur sloping S.
	Asc. 10 ft. along S. slope.
43.50	Finger spur, slopes S.; desc. 30 ft. over SW. slope.
45.00	Small gully, near head, drains S.; asc. 110 ft. over SE. slope.
49.60	Ridge, bears irregularly N. and S.; desc. 300 ft. over W. slope.
60.60	Narrow deep wash, drains S. 15° W.; asc. 30 ft. over SE. slope.
63.50	Finger spur, slopes S.; desc. 30 ft. over SW. slope.
64.90	Gully, drains SE.; asc. 130 ft. over rolling E. slope.
73.90	Spur, slopes S. 20° E.; desc. 60 ft. over W. slope.
76.02	The cor. of secs. 31 and 32, previously described.
	Land, rolling, mountainous. Soil, rocky clay loam, limestone outcrops. Timber, moderate juniper on E. 50 chs.
	West, along the N. bdy. of sec. 31.
	Over rolling mountainous land, widely scattered timber.
	By triangulation, topography as taken from U. S. G. S. topographic sheet; desc. about 140 ft. over steep W. slope.
3.00	Draw, drains S. 70° W.; desc. about 80 ft. along S. slope.

Portion of Subdivision, T. 9 S., R. 8 W.

Chains	
14.00	Spur, slopes SW.; desc. about 200 ft. over NW. slope.
21.00	Draw, drains S. 80° W.; desc. about 200 ft. along rolling S. slope.
40.00	Point for the N. ¼ sec. cor. of sec. 31.
	Set an iron post, 30 ins. long, 2½ ins. diam., on broken limestone slope, in a mound of stone, 4 ft. base to top, with brass cap mkd. ¼ S31 T9S R8W 1960
	End of triangulation
40.50	Rocky ledge, 10 ft. high; desc. 100 ft.
44.30	Spur, slopes S. 80° W.; desc. 190 ft. over W. slope.
58.20	Small gully, drains N. 80° W.; desc. 120 ft. over gentle rolling l W. drainage and exposure.
68.70	Wash, 50 lks. wide, 3 ft. deep, drains W.; desc. 150 ft. over W.sl
82.43	Intersect the E. bdy. of sec. 36, T. 9 S., R. 9 W., at point for the closing cor. of secs. 30 and 31.
	Set an iron post, 30 ins. long, 2½ ins. diam., 20 ins. in the ground with brass cap mkd. T9S R9W R8W S36 | S30 C / S31 C 1960
	Raise a mound of stone, 3 ft. base, 2½ ft. high, E. of the cor.
	From this cor. the ¼ sec. cor. of sec. 36, T. 9 S., R. 9 E., mkd. by a 1 in. iron post, conforming to the official record, bears N. 1°48' 2.33 chs. dist.
	Land, rolling on W. 30 chs., mountainous on remainder. Soil, rocky clay loam and gravel. Timber, widely scattered juniper.
	Note: The W. ¼ sec. cor. of sec. 31 was not established.
	Dependent Resurvey of a Portion of the Subdivision of T. 9 S.,R. 8 W
	Reestablishment of the survey executed by A. J. Stewart Jr. in 1872.
	Beginning at the cor. of secs. 15, 16, 21 and 22, mkd. by a flint stone, 15x15x10, set, mkd. and witnessed as described in the offic record.
	At the cor. point
	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.

t Resurvey Portion of Subdivision, T. 9 S., R. 8 W.

Chains	
	T9S R8W S16 | S15 S21 | S22 1960
	Deposit the original stone cor. alongside the iron post.
	N. 0° 05' W., bet. secs. 15 and 16.
	Over rolling, mountainous land through moderate timber.
	Desc. 50 ft. over N. slope.
3.20	Draw, drains N. 20° W.; asc. 10 ft. along SW. slope.
8.80	Spur, slopes N. 20° W.; desc. 200 ft. along NE. slope.
27.40	Small side gully, drains N.; desc. 30 ft. over gentle N. slope.
31.80	Wash, 50 lks. wide, 3 ft. deep, drains NE.; asc. 10 ft. along SE. slope.
39.86	The ¼ sec. cor. of secs. 15 and 16, monumented by a granite stone, 14x10x5 ins. firmly set and dimly mkd.
	At the same location
	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.
	T9S R8W ¼ S16 | S15 1960
	Deposit the original stone cor. alongside the iron post.
	N. 1° 11' W., bet. secs. 15 and 16, beginning new measurement.
	Over gently rolling land, through moderate timber; asc. 10 ft. along E. slope.
11.40	Small gully, drains E.; asc. 10 ft. over S. slope.
14.80	Low spur, slopes E.; desc. 80 ft. over rolling E. slope.
22.50	Small draw, drains NE.; asc. 20 ft. over SE. slope.
30.20	Spur, slopes N. 15° E.; desc. 100 ft. over general N. slope.
40.27	The cor. of secs. 9, 10, 15 and 16 monumented by a sandstone, 16x10x6 ins., loosely set and plainly mkd.
	At the same location
	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.
	T9S R8W S 9 | S10 S16 | S15 1960
	Bury the original stone cor. alongside the iron post.

Resurvey, Portion of Subdivision, T. 9 S., R. 8 W.

Chains	
	Land, rolling. Soil, sandy clay loam and rocks. Timber, moderate juniper.
	S. 89° 08' W., bet. secs. 9 and 16.
	Over rolling mountainous land, through moderate timber.
	Desc. 10 ft. over NW. slope.
3.90	Wash, 30 lks. wide, 2 ft. deep, drains NE.; asc. 70 ft. over E.s
9.40	Spur, slopes N.; desc. 100 ft. over NW. slope.
14.70	Draw, drains N. 30° E. from SW.; asc. 140 ft. over SE. slope.
22.80	Spur, slopes NE.; asc. 20 ft. along N. slope.
27.20	Spur, slopes N.; desc. 110 ft. over NW. slope.
32.70	Draw, drains N. 20° E., heads about 8.00 chs. S.; asc. 130 ft. over rolling E. slope.
39.93	Point for the ¼ sec. cor. of secs. 9 and 16, at proportionate dist.; there is no remaining evidence of the original stone cor.
	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. T9S R8W ¼ S 9 / S16 1960
	Asc. 30 ft.
41.00	Spur, slopes NE.; desc. 110 ft. over NW. slope.
49.00	Draw, drains NE.; asc. 360 ft. over rolling E. slope.
61.50	Ridge, bears irregularly N. and S.; desc. 480 ft. over steep rolling land, NW. drainage and exposure.
79.85	The cor. of secs. 8, 9, 16 and 17, monumented by a flint stone 18x10x5 ins., firmly set and plainly mkd.
	At the same location
	Set an iron post, 30 ins. long, 2½ ins. diam., on broken bedrock, and in a mound of stone, 4 ft. base to top, with brass cap mkd. T9S R8W S 8 | S 9 S17 | S16 1960
	Deposit the original stone cor. alongside the iron post.
	The cor. is located on N. slope of rocky outcrop bearing E. and W., about 2.00 chs. in length and 50 lks. wide.
	Land, rolling, mountainous. Soil, rocky and clay loam with limestone outcrops. Timber, moderate juniper.

Chains	Survey of a Portion of the Subdivision of T. 9 S., R. 8 W.
	From the cor. of secs. 15, 16, 21 and 22, previously described.
	West, along the S. bdy. of sec. 16.
	Over rolling, mountainous land, through moderate timber.
	By triangulation, topography as taken from U. S. G. S. topographic sheet; desc. about 80 ft. over spur, sloping NW.
4.00	Wash, 30 lks. wide, 3 ft. deep, drains NW.; asc. about 40 ft. over NE. slope.
7.00	Spur, slopes NW.; desc. about 100 ft. over NW. slope.
12.00	Wash, 50 lks. wide, 2 ft. deep, drains N.; asc. about 320 ft. over rolling land putting NE.
33.00	End of triangulation on spur sloping N. 20° E.; desc. 170 ft. over NW. slope.
39.80	Draw, drains N. 15° E.; asc. 10 ft. over E. slope.
40.00	Point for the ¼ sec. cor. of sec. 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.
	T9S R8W ¼ S16 1960
	Asc. 350 ft. over E. slope.
61.60	Spur, slopes N. 20° E.; desc. 40 ft. along N. slope.
66.00	Spur, slopes N. 15° W.; desc. 220 ft. over SW. slope.
80.63	Point for the cor. of secs. 16 and 17, S. of the cor. of secs. 8, 9, 16 and 17 and W. of the cor. of secs. 15, 16, 21 and 22.
	At the cor. point
	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.
	T9S R8W S17 | S16 1960
	Land, rolling, mountainous. Soil, sandy clay loam and rocks. Timber, moderate juniper.
	North, bet. secs. 16 and 17.
	Over rolling, mountainous land, through moderate timber.
	Asc. 20 ft. over S. slope.
1.70	Spur, slopes N. 70° W.; desc. 200 ft. over N. slope.

Survey, Portion of Subdivision, T. 9 S., R. 8 W.

Chains	
7.10	Canyon, drains N. 80° W.; asc. 220 ft. over SW. slope.
21.20	Spur, projects W.; desc. 240 ft. over rolling land, W. drainage and exposure.
32.00	Draw, drains N. 80° W., heads about 5.00 chs. E.; asc. 50 ft. over S. slope.
39.00	Point for the ¼ sec. cor. of secs. 16 and 17.
	Set an iron post, 36 ins. long, 1 in. diam., 6 ins. in the ground and in a mound of stone, 4 ft. base to top, with brass cap mkd.
	T9S R8W ¼ S17|S16 1960
	From the cor. a large juniper line tree, bears S. 0.20 lks. dist.
	Asc. 40 ft. over S. slope.
41.60	Spur, projects W.; desc. 310 ft. over NW. slope.
54.10	Draw, drains W., heads about 5.00 chs. E.; asc. 100 ft. over SW.slc
62.00	Spur, projects W.; desc. 400 ft. over rolling N. slope.
77.50	Draw, drains W.; asc. 40 ft. over S. slope.
78.70	Rocky outcrop on spur sloping sharply W.; desc. 10 ft.
79.00	The cor. of secs. 8, 9, 16 and 17.
	Land, rolling, mountainous. Soil, rocky clay loam, limestone outcrops. Timber, moderate juniper.

General Description

The portion of T. 9 S., R. 8 W. included in this survey (sections 16, 31, 32) falls in rough, mountainous land, with the exception of the west part of section 31, which is located on rocky bench land sl west away from grassy mountain. Section 16 lies on the north portion of the Simpson Mountains which extend north and south thr the township. The elevation above sea level ranges from abour 5,050 feet in section 31 to about 5,700 feet in section 16. The soil varies from heavy clay loam at lower elevations to shallow rocky clay loam and limestone outcrops at higher levels. There is a moderate growth of juniper in sections 16 and 32 and a fair growth of sage, yellow brush, oak and grass over most of the area.

The Erickson Mining District extends through the township, but no mining activity was noted in these areas.

There are several good springs located throughout the township, but no live water sources found in the area covered by this survey.

At the present time the land is used primarily for the grazing of livestock. The only recent improvement noticed was the extension of a jeep road through the western portion of section 33 which termina in the southern portion of section 28.

4-680
(Feb., 1960)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FIELD ASSISTANTS

NAMES	CAPACITY
Paul G. Bauer	Transitman
Dan V. Coleman	Chainman (notekeeper)
Douglas L. McInelly	Chainman
Jerald V. Thompson	Cornerman, axeman
Arnold Mann	Flagman

16—53555-2

2[illegible]

CERTIFICATE OF CADASTRAL ENGINEER

I, Boyd S. Owens, HEREBY CERTIFY upon honor that, [illegible] pursuance of special instructions bearing date of the 5th day of May, [illegible] I have [redacted] [illegible] resurveyed a [illegible] of the south [illegible] and a [illegible] of the subdivisional lines; and surveyed a portion of the subdivisional lines of T. 9 S., R. 8 W.

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

Salt Lake City, Utah

January 26, 1961

Boyd S. Owens

[illegible] S. Owens Cadastral [illegible]

CERTIFICATE OF APPROVAL

BUREAU OF LAND MANAGEMENT,

Washington, D. C., JUN 27 1962, *19*

The foregoing field notes of the [redacted] [illegible]t resurvey of a [illegible]ortion of the south boundary and a portion of the subdivisional lines; and the survey of a portion of the subdivisional lines of T. 9 S., R. 8 W., SLMer., Utah

executed by Boyd S. Owens

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

Chi[illegible], [illegible]iv[illegible]on [illegible]ngi[illegible]e[illegible]

CERTIFICATE OF TRANSCRIPT

[illegible], is a true copy of the original [illegible]

[illegible]

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

4—879
(September 1948)

211

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

ORIGINAL

FIELD NOTES

OF THE

DEPENDENT RESURVEY

OF A PORTION OF THE SOUTH AND WEST BOUNDARIES

AND A PORTION OF THE SUBDIVISION

AND THE SURVEY

OF A PORTION OF THE SUBDIVISION

OF

TOWNSHIP 11 SOUTH, RANGE 4 WEST

Of the Salt Lake *Meridian,*

n the State of Utah

EXECUTED BY

Boyd S. Owens, Cadastral Surveyor

Inder special instructions dated May 5, *19* 60, *which provided*

or the surveys included under Group No. 438, *approved* May 18, 1960

nd assignment instructions dated May 18, *19* 60

Survey commenced June 16, *19* 60

Survey completed June 29, *19* 60

INDEX DIAGRAM

Township 11 South, *Range* 4 West

6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30 9	29 8	28 7	27	26	25
5 31 4	11 32 3	10 33 2	6 34	35	36

GPO 866119

Township 11 South, Range 4 West

Chains

The township boundaries and a portion of the subdivisional lines were surveyed by Joseph Gorlinski in 1872 and 1874. These surveys are delineated on the plat of T. 11 S., R. 4 W., approved July 14, 1874. The south boundary was resurveyed by John W. Dougall in 1911, and the record thereof appears on the plat of T. 12 S., R. 4 W., approved June 30, 1913.

The following field notes are those of a resurvey of a portion of the south and west boundaries, a portion of the subdivision, and a survey of a portion of the subdivisional lines of T. 11 S., R. 4 W.

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, and other calls of the original field note record. When duly identified the corner positions were remonumented and new accessories taken.

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 retracement data were submitted for office examination and verification prior to the conclusion of the field work. In order to simplify the record, the true line notes only are supplied herewith, which refer to the completed survey.

Corners on east-west lines were set on the true latitudinal curve. 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.

The survey was executed with a W. & L. E. Gurley solar transit No. 591189, 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.

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 approximate. The details of such traverse 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 corner of sections 33 and 34 on the south boundary of the township is at latitude 39° 48' 58" N. and longitude 112° 17' 20" W., as traversed and adjusted from the southeast corner of T. 11 S., R. 4 W which was determined by computation and scaling from U.S.G.S. topographic maps.

T. 11 South 4 West

Chains	
	The magnetic declination at the corner of sections 33 and 34 on the south boundary of the township was found to be 16½° E.
	Dependent Resurvey of a Portion of the South Boundary, T. 11 S., R. 4
	Reestablishment of surveys executed by J. W. Dougall in 1911.
	Beginning at the cor. of secs. 33 and 34 on the S. bdy. of the Tp., mkd. by a 3 in. iron post, conforming to the official record.
	N. 89° 20' W., along the S. bdy. of sec. 33.
	Over rolling bench land, through heavy junipers.
	Asc. 30 ft. over gentle E. slope.
5.60	Spur, slopes S.; desc. 10 ft. over W. slope.
9.70	Bottom of hollow, drains S.; asc. 20 ft. over E. slope.
16.30	Spur, slopes S.; desc. 30 ft. over W. slope.
18.70	Draw, drains S.; asc. 70 ft. over rolling land, S. drainage and exposure.
34.00	Spur, slopes S. 30° E.; desc. 40 ft. over general W. slope.
39.51	Point for the ¼ sec. cor. of sec. 33 on the S. bdy. of the Tp. hereinafter described.
40.675	Record dist. for the ¼ sec. cor. of secs. 4 and 33 set in 1911; the cor. point falls in a wash, 1.00 ch. wide, 1 ft. deep, drains SE.; this cor. was not located.
	Asc. 130 ft. over NE. slope through heavy timber.
56.70	Spur, slopes S. 15° E.; desc. 30 ft.
61.90	Jeep road, bears N. and S.; desc. 10 ft. over W. slope.
64.30	Gully, drains S.; asc. 40 ft. over SE. slope.
67.50	Spur, slopes S.; desc. 20 ft. over W. slope.
71.30	Finger spur, slopes S. 20° W.; desc. 20 ft. along W. slope.
74.10	Gully, drains S.; asc. 10 ft. along rolling S. slope.
77.70	The closing cor. of secs. 4 and 5, T. 12 S., R. 4 W., mkd. by a 2 in. iron post conforming to the official record.
	Desc. 20 ft.
79.51	The closing cor. of secs. 32 and 33, T. 11 S., R. 4 W., hereinafter described.
	Thence
	Along the S. bdy. of sec. 32, continuing measurement.
80.00	Head of draw, drains S.; asc. 30 ft. over SE. slope.

Dependent Resurvey, Portion of S. Bdy., T. 11 S., R. 4 W.

Chains	
81.26	The monument, originally set to function as the cor. of secs. 32 and 33, mkd. by a 3 in. iron post, firmly set and plainly mkd.; this cor. now functions as an angle point only, mkd. A P T11S R4W S32 60 1911 Land, rolling, mountainous. Soil, rocky clay loam. Timber, moderate to heavy juniper.
	N. 89° 24' W., along the S. bdy. of sec. 32, beginning new measurement.
	Over rolling mountainous land; asc. 280 ft. over rolling SE. slope.
22.10	Spur, slopes S.; desc. 270 ft. over SW. slope.
36.80	Wash, drains S.; asc. 10 ft.
38.23	Point for the ¼ sec. cor. of sec. 32, hereinafter described.
	Asc. 20 ft. over SE. slope.
40.58	The monument, originally set to function as the ¼ sec. cor. of secs. 5 and 32, mkd. by a 1 in. iron post, firmly set and plainly mkd.; this cor. now functions as an angle point only, mkd. A P S32 60 1911
	N. 89° 24' W., along the S. bdy. of sec. 32, beginning new measurement.
	Asc. 260 ft. over SE. slope, through heavy timber.
16.00	Ridge, bears N. and S.; desc. 110 ft. over rolling SW. slope.
19.80	Gully, drains S.; desc. 30 ft. over rolling S. slope.
26.20	Gully, drains S.; asc. 60 ft. over E. slope.
31.40	Spur, slopes S.; desc. 100 ft. over W. slope.
35.68	The closing cor. of secs. 5 and 6, T. 12 S., R. 4 W., mkd. by a 2 in. iron post, conforming to the official record.
	Thence, along the S. bdy. of sec. 31, continuing measurement; desc. 30 ft.
37.63	Point for the closing cor. of secs. 31 and 32, hereinafter described.
	Desc. 10 ft.
37.90	Wash, 20 lks. wide, 2 ft. deep, drains S.; cont. along rolling S. slope.

Dependent Portion of S. T. 11 S. R. 4 W.

Chains

40.68 The monument originally set to function as the cor. of secs. 5, 32, mkd. by an iron post, 3 ins. diam., firmly set and plainly mkd.; this cor. now functions as an angle point only, mkd.

A P
T11S R4W
S31

60
1911

Land, rolling.
Soil, rocky clay loam.
Timber, heavy juniper.

N. 89° 24' W., along the S. bdy. of sec. 31, beginning new measur

Over rolling mountainous land, through moderate timber; desc. 50 ft. over rolling land, draining S.

9.40 Bottom of canyon, drains S.; asc. 70 ft. over SE. slope.

17.70 Spur, slopes S.; desc. 70 ft. over W. slope.

21.70 Draw, drains S.; asc. 40 ft. over E. slope.

29.90 Spur, slopes S.; desc. 130 ft. over W. slope.

35.90 Draw, drains S.; asc. 10 ft. over E. slope.

36.95 Point for the ¼ sec. cor. of sec. 31 at 40.00 chs. westing from the closing cor. of secs. 31 and 32.

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.

T11S R4W
¼ S31

T12S
1960

Asc. 30 ft. over E. slope.

40.44 The monument, originally set to function as the ¼ sec. cor. of secs. 6 and 31, mkd. by an iron post, 1 in. diam., firmly set and plainly mkd.; this cor. now functions as an angle point only, mkd.

A P
S31

60
1911

N. 89° 36' W., along the S. bdy. of sec. 31, beginning new measur

Asc. 10 ft. over E. slope.

1.30 Spur, projects S. 20° E.; desc. 210 ft. over SW. slope.

13.60 Draw, drains S.; asc. 30 ft. over E. slope.

15.90 Low spur, slopes S.; desc. 40 ft. over W. slope.

Dependent Resurvey, Portion of S. Bdy., T. 11 S., R. 4 W.

Chains	
18.70	Gully, drains S.; desc. 70 ft. over gentle rolling bench land.
35.40	Draw, drains SW.; asc. 30 ft. over SE. slope.
38.40	Spur, slopes SW.; desc. 10 ft. over gentle W. slope.
40.50	The cor. of Tps. 11 and 12 S., Rs. 4 and 5 W., mkd. by a 3 in. iron post, conforming to the official record. The cor. is located on old fence line, bearing N. 0° 30' W. and S. 0° 30' E. about 50 lks., thence W. Land, rolling. Soil, clay loam at lower elevations, gravel and rocky outcrops at higher elevations. Timber, moderate juniper.

Dependent Resurvey of a Portion of the East Boundary, T. 11 S., R. 5 W.

Reestablishment of the surveys executed by J. Gorlinski in 1874.

Beginning at the cor. of Tps. 11 and 12 S., Rs. 4 and 5 W., a 3 in. iron post, described in the survey notes of the N. bdy., T. 12 S., R. 4 W.

N. 0° 34' W., along the E. bdy. of sec. 36, T. 11 S., R. 5 W.

Over gently rolling bench land, through moderate timber.

Asc. 10 ft. over gentle SW. slope, along fence bearing N. 0°30' W.

9.40	Small wash, drains S. 60° W.; asc. 20 ft. over gently rolling land.
14.80	Begin descent over NW. slope; desc. 10 ft.
18.00	Small wash, drains SW.; asc. 40 ft. over gently rolling land.
36.39	Point for the ¼ sec. cor. of sec. 31, T. 11 S., R. 4 W., hereinafter described.
40.13	Point for the ¼ sec. cor. of sec. 36, T. 11 S., R. 5 W., at proportionate dist.; there is no remaining evidence of the original stone cor. 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. T11S R5W R4W. ¼ S36 1960 Asc. 40 ft. over S. slope.
50.80	Top of ascent, bears E. and W.; desc. 30 ft. over N. slope.
55.90	Unimproved dirt road, bears E. and W.; road forks 0.50 lks. E., one fork bears to the N. Asc. 100 ft. over gently rolling land, SW. drainage and exposure.
73.50	Top of ascent, bears NE. and SW.; desc. 20 ft. over NW. slope.
76.39	The closing cor. of secs. 30 and 31, T. 11 S., R. 4 W., hereinafter described.

Dependent Resurvey, Portion of E. Bdy., T. 11 S., R. 5 W.

Chains

Desc. 20 ft.

80.27 The monument, originally set to function as the cor. of secs. 25, 30, 31 and 36, mkd. by a stone, 12x10x8 ins., firmly set and plainly mkd. this cor. now functions as the cor. of secs. 25 and 36, T. 11 S., R. 5 W., only.

At the same location

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.

T11S
R5W | R4W
S25 | S30
S36 |
1960

Bury the original stone cor. alongside the iron post.

This cor. is located near the cor. of fence line bearing W. and S.

Land, gently rolling.
Soil, sandy clay loam.
Timber, moderate juniper, intermittent sage covered flats.

Dependent Resurvey of a Portion of the Subdivision of T. 11 S., R. 4

Reestablishment of the survey executed by J. Gorlinski in 1874.

From the cor. of secs. 33 and 34 on the S. bdy. of the Tp.

N. 0° 21' E., bet. secs. 33 and 34.

Over rolling bench land, through moderate timber.

3.10 Small wash, drains SE.; asc. 40 ft. over rolling bench land.

20.70 Draw, drains S. 30° E.; asc. 70 ft. over SW. slope.

36.50 Unimproved dirt road, bears irregularly E. and NW., following along ridge top.

Desc. 10 ft. over N. slope.

38.86 Point for the ¼ sec. cor. of sec. 33.

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

T11S R4W
¼ |
S33 |
1960

Raise a mound of stone, 3 ft. base, 2 ft. high, W. of the cor.

39.43 Point for the ¼ sec. cor. of sec. 34, at proportionate dist.; there is no remaining evidence of the original stone cor.

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.

Chains	
	T11S R4W ¼ S34 1960
	Desc. 10 ft. over N. slope.
43.20	Wash, 30 lks. wide, 2 ft. deep, drains SE.; asc. 10 ft. over rolling bench land.
59.40	Draw, drains SE.; asc. 30 ft. over rolling land.
66.00	Small wash, drains S. 20° E.; asc. 20 ft. over SW. slope.
76.00	Top of ascent, bears NW. and SE.; desc. 10 ft. over NE. slope through moderate sage, no timber.
78.80	Small wash in bottom of hollow, drains SE.
78.86	The monument originally set to function as the cor. of secs. 27, 28, 33 and 34, mkd. by a quartzite stone, 16x8x8 ins., firmly set and dimly mkd.; this cor. now functions as the cor. of secs. 33 and 34 only.
	At the same location
	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.
	T11S R4W S33 | S34 1960
	Bury the original stone cor. alongside the iron post.
	Land, gently rolling. Soil, sandy clay loam and rocky. Timber, moderate juniper, heavy sage along draws.
	Note: The lines for ½ mile N. and 2 miles E. were retraced and no original cors. found.
	Thence
	West, with original survey, on a sectional correction line, along the N. bdy. of sec. 33.
	Over rolling land, through moderate sage.
.10	Small wash, drains SE.; asc. 20 ft. over NE. slope.
2.30	Top of ascent, bears NW. and SE., by triangulation, topography as estimated; asc. about 300 ft. over rolling land through moderate timber, general SE. drainage.
37.80	End of triangulation on ridge bearing N. 10° W. and S. 10° E.; desc. 20 ft. over W. slope.
40.00	Point for the N. ¼ sec. cor. of sec. 33.
	Set an iron post, 30 ins. long, 2½ ins. diam., 14 ins. in the ground and in a mound of stone, 3 ft. base, to top, with brass cap mkd.

Survey, Portion of Subdivision, T. 11 S., R. 4 W.

Chains	
	T11S R4W ¼ S33 1960
	Desc. 110 ft. over W. slope.
50.30	Small gully drains S. 70° W.; desc. 20 ft.
54.70	Jeep road, bears N. 15° W. and S. 15° E.
58.50	Small wash, drains S. 20° E.; asc. 160 ft. over broken E. slope.
80.00	Point for the sec. cor. of secs. 32 and 33 on sectional correction line.
	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..
	T11S R4W S32 | S33 1960
	The cor. is located on S. slope of rocky spur.
	Land, rolling, mountainous. Soil, rocky clay loam. Timber, moderate juniper. Undergrowth, moderate sage, scattered grass.
	West, along the N. bdy. of sec. 32.
	Over rolling, mountainous land, through moderate juniper.
	By triangulation, topography as estimated; asc. 270 ft. over rolling land, SE. drainage and exposure.
30.40	End of triangulation on ridge, bearing N. 10° W. and S. 10° E.; desc. 30 ft. over SW. slope.
35.10	Small gully, drains SW.; desc. 10 ft. along S. slope.
40.00	Point for the N. ¼ sec. cor. of sec. 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, with brass cap mkd.
	T11S R4W ¼ S32 1960
	Asc. 30 ft. along rolling S. slope.
46.10	Gully, drains S.; asc. 40 ft. over E. slope.
48.20	Finger spur, slopes S.; desc. 20 ft. over W. slope.
51.00	Wash, 40 lks. wide, 1 ft. deep, drains S. 15° E.; desc. 70 ft. along rolling S. slope.
60.00	Slope changes to E.; asc. 30 ft.
63.00	Rocky point on spur sloping sharply S.; desc. 150 ft. over rolling SW. slope.

Survey, Portion of Subdivision, T. 11 S., R. 4 W.

Chains	
70.90	Gully, drains S. 10° W.; desc. 20 ft.
74.60	Begin ascent along rolling S. slope; asc. 10 ft.
77.60	Top of ascent; desc. 10 ft. over SW. slope.
80.00	Point for the sec. cor. of secs. 31 and 32 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. T11S R4W S31 | S32 1960
	Land, rolling, mountainous. Soil, rocky clay loam, limestone outcrops. Timber, moderate juniper.
	West, along the N. bdy. of sec. 31.
	Over rolling mountainous land, through moderate juniper.
	Desc. 200 ft. over rolling SW. slope.
13.90	Jeep road, bears N. 10° E. and S.; desc. 10 ft.
15.10	Wash, 50 lks. wide, 3 ft. deep, drains S.; asc. 80 ft. over general E. slope.
20.00	Rocky spur, slopes S. circling to W.; desc. 80 ft. over W. slope.
27.60	Slope changes to N.; desc. 70 ft.
40.00	Point for the N. ¼ sec. cor. of sec. 31.
	Set an iron post, 36 ins. long, 1 in. diam., 16 ins. in the ground and in a mound of stone, 3½ ft. base to top, with brass cap mkd. T11S R4W ¼ S31 1960
	The cor. is located on a N. slope about 1.00 ch. up from the bottom.
	Desc. 60 ft. along the N. side of spur.
50.70	Wash, with jeep road in bottom, drains S. 50° W., from N. 70° E.; desc. 50 ft. over rolling bench land.
63.30	Wash, drains S. 10° W.; desc. 20 ft.
82.90	Jeep road, bears N. and S.
84.50	Fence, bears N. and S.
84.71	Intersect the E. bdy. of sec. 36, T. 11 S., R. 5 W., at point for the closing cor. of secs. 30 and 31.
	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.

222

Portion of Subdivision, T. 11 S., R. 4 W.

Chains	
	T11S R5W R4W S36 | S30 C S31 C 1960
	From this cor. the cor. of secs. 25 and 36, T. 11 S., R. 5 W., hereinbefore described, bears N. 0° 34' W., 3.88 chs. dist.
	Land, gently rolling bench land on W. ½ mile; mountainous on remainder. Soil, clay loam and rocky. Timber, moderate juniper.
	From the closing cor. of secs. 30 and 31. The point for the ¼ sec. cor. of sec. 31 is at 40.00 chs. southing and on the W. bdy. of the Tp.
	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.
	T11S R5W R4W ¼ S31 1960
	From the cor. of secs. 32 and 33 on sectional correction line.
	South, bet. secs. 32 and 33.
	Over rolling mountainous land, through moderate timber and sage.
	Desc. 80 ft. over S. slope.
8.90	Gully, drains S. 60° E.; desc. 10 ft.
16.50	Wash, 30 lks. wide, 2 ft. deep, drains S. 80° E.; asc. 30 ft. over rolling bench land.
34.00	Small rocky knoll; desc. 50 ft. over SW. slope.
39.00	Gully, drains SE.; cont. along E. 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 and in a mound of stone, 4 ft. base to top, with brass cap mkd.
	T11S R4W ¼ S32 | S33 1960
	Desc. 20 ft. over sage covered bench land.
44.90	Small sage draw, drains SE.; desc. 10 ft.
47.30	Small wash, drains E.; asc. 10 ft. over gentle NE. slope.

Survey, Portion of Subdivision, T. 11 S., R. 4 W.

Chains	
49.00	Spur, slopes SE.; desc. 60 ft. over rolling SW. slope.
60.20	Jeep road, bears N. 80° W. and S. 80° E.; desc. 10 ft. over S. slope.
63.20	Wash, 50 lks. wide, 1 ft. deep, drains E. curving to SE.; a small spring, good drinking water, bears E. 3.00 chs. dist.; asc. 60 ft. over general N. slope.
69.30	Top of ascent, bears E. and W.; desc. 70 ft. over rolling land, S. drainage and exposure.
77.93	Intersect the S. bdy. of the Tp. at the point for the closing cor. of secs. 32 and 33.
	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. T11S R4W C C S32 | S33 S 5 T12S 1960
	From this cor. an angle point on the S. bdy. of sec. 32, previously described, bears N. 89° 20' W., 1.75 chs. dist.
	Land, rolling. Soil, sandy clay loam and rocky. Timber, moderate juniper along spurs and ridges, intermittent sage-covered draws.
	The point for the S. ¼ sec. cor. of sec. 33 is at 40.00 chs. easting from the closing cor. of secs. 32 and 33 on the S. bdy. of the Tp.
	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, 3 ft. base to top, with brass cap mkd. T11S R4W ¼ S33 1960
	From the cor. of secs. 31 and 32, on the sectional correction line.
	S. 0° 01' E., bet. secs. 31 and 32.
	Over rolling mountainous land, through moderate juniper and sage-covered draws.
	By triangulation; asc. 250 ft.
37.60	End of triangulation, ridge bears N. 70° W. and S. 80° E.; desc. 70 ft. over steep 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., 4 ins. in the ground and in a mound of stone, 4 ft. base to top, with brass cap mkd.

Portion Subdivision, T. 11 S., R. 4 W.

Chains

T11S R4W
¼
S31 | S32
1960

Desc. 360 ft. over rolling land, through moderate timber, general S. drainage and exposure.

77.08 Intersect the S. bdy. of the Tp. at the point for the closing cor. of secs. 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.

T11S R4W
C C
S31 | S32
S 6
T12S
1960

From this cor. and angle point on the S. bdy. of sec. 31, previously described, bears N. 89° 24' W., 3.05 chs. dist.

Land, rolling, mountainous.
Soil, clay loam and rocky.
Timber, moderate juniper.

The point for the S. ¼ sec. cor. of sec. 32 is at midpoint and on the S. bdy. of the Tp.

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, 3½ ft. base to top, with brass cap mkd.

T11S R4W
¼ S32
T12S
1960

General Description

The land in the southwest portion of the township has a moderate growth of timber on the ridges and spurs, with heavy sage and grass along the draws and washes. The West Tintic mountains extend south through the township, sloping off to the east and west, with the divide in the southern part falling in section 32.

There are several roads into the township and indications of mining having been undertaken in the Tintic Mountains. At present lives grazing is the predominating interest, but is confined mostly to bench land. There is a good spring located in the southwest of section 33 and a few small seeps were noted in the area.

The soil at lower elevations is a heavy clay loam, becoming shallow and rocky at higher elevations.

No recent improvements or developments were noted, but prospecting and post cutting are still carried on in the area.

4-680
(Feb., 1950)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FIELD ASSISTANTS

NAMES	CAPACITY
Paul G. Bauer	Transitman
Dan V. Coleman	Chainman (note keeper)
Douglas L. McInelly	Chainman
Stanley F. Greene	Flagman
Jerald V. Thompson	Cornerman
Arnold Mann	Axeman and Flagman
Ross Workman	Axeman

CERTIFICATE OF CADASTRAL ENGINEER

I, Boyd S. Owens, HEREBY CERTIFY upon honor

pursuance of special instructions bearing date of the 5th day of May,

I have ~~surveyed~~ res[illegible] a portion of the south and west boundaries and a [illegible]

of the subdivision; and surveyed a portion of the subdivision of T. 11 S., R.4 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

field notes.

Salt Lake City, Utah

January 12, 1961

Boyd S. Owens, Cadastral Surveyor

CERTIFICATE OF APPROVAL

BUREAU OF LAND MANAGEMENT,

Washington, D. C., JUN 28 1962, *19*

The foregoing field notes of the ~~survey of~~ dependent [illegible] of a portion of the s[illegible]

and west boundaries and a portion of the subdivision; and the survey of a [illegible]

of the subdivision of T. 11 S., R. 4 W., Salt Lake Meridian, Utah

executed by Boyd S. Owens, Cadastral [illegible]r

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

Chief, [illegible]visi[illegible]

CERTIFICATE OF TRANSCRIPT

~~I CERTIFY~~ that the foregoing ~~transcript of~~ the field notes of [illegible]

, is a true copy of the original [illegible]

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

4—679
(September 1948)

221

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

ORIGINAL

FIELD NOTES

OF THE

SURVEY

OF A PORTION OF THE SUBDIVISION

OF

TOWNSHIP 10 SOUTH, RANGE 8 WEST

Of the Salt Lake *Meridian,*

In the State of Utah

EXECUTED BY

Boyd S. Owens, Cadastral Surveyor

Under special instructions dated May 5, *19* 60, *which provided for the surveys included under Group No.* 438, *approved* May 18, 1960 *and assignment instructions dated* May 18, *19* 60

Survey commenced July 25, *19* 60

Survey completed July 28, *19* 60

INDEX DIAGRAM

Township 10 South, *Range* 8 West

6	5	4	3	2	1
7	8	9 5	10	11	12
18	17	16 3	4 15	14	13
19	20	21	22	23	24
30	29	28	27	26	25 2
31	32	33	34	35	1 36

GPO 866119

Township 10 South, Range 8 West

Chains

The east boundary of the township was surveyed by A. Gentry in 1933. The north boundary and the boundaries of sections 2 and 5 were surveyed by A. J. Stewart Jr. in 1872. The west and south boundaries were surveyed by J. Gorlinski in 1875. The north and west boundaries and the boundaries of section 5 were dependently resurveyed by Clark and Bird in 1947, who, the same year, independently resurveyed the south boundary (Second Standard Parallel South through Range 8 West) and surveyed a portion of the subdivisional lines of T. 10 S., R.8 W.

The following field notes are those of the survey of a portion of the subdivisional lines of T. 10 S., R. 8 W.

The survey was executed with a W. & L. E. Gurley solar transit No. 591189 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 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° 54' 13.5" N. and longitude 112° 41' 11.8" W. as adjusted from U. S. G. S. topographic sheet.

The magnetic declination was read at a number of stations throughout the township and the average of these readings was found to be 16° 45' East.

Survey of a Portion of the Subdivision of T. 10 S., R. 8 W.

Beginning at the Standard corner of sections 35 and 36 on the Second Standard Parallel South, monumented by an iron post, 2 ins. diam., set, mkd. and witnessed as described in the official record.

N. 0° 01' W., bet. secs. 35 and 36.

Over steep, rocky mountain land, through moderate timber.

Survey, Portion of Subdivision, T. 10 S. R. 8 W.

Chains	
	Asc. 160 ft. over steep S. slope.
5.50	Spur, slopes W., by triangulation, topography as taken from U. S. G. topographic sheet; desc. about 140 ft. over rolling NW. slope.
24.50	Bottom of canyon, drains SW.; asc. about 420 ft. over steep SE. slo
40.00	Point for the ¼ sec. cor. of secs. 35 and 36.
	Set an iron post, 36 ins. long, 1 in. diam., among broken boulders in a mound of stone, 5 ft. base to top, with brass cap mkd.

T10S R8W

S35	S36

1960

	The cor. is located on spur sloping SW.
	End of triangulation; asc. 40 ft. along W. slope.
41.60	Finger spur, slopes W. about 3.00 chs. to end; desc. 30 ft. along W. slope.
49.50	Large rock slide, slopes sharply W.; asc. 60 ft. along rolling W. slope.
54.10	Rocky spur, slopes sharply W. about 10 chs. to end; desc. 170 ft. rocky NW. slope.
60.70	Canyon, drains S. 70° W.; asc. 390 ft. over steep rocky SW. slope.
74.30	West end of high rocky outcrop.
76.50	Rocky gully, drains sharply W.; asc. 80 ft. over steep rocky SW.slc
80.00	Point for the cor. of secs. 25, 26, 35 and 36.
	Set an iron post, 30 ins. long, 2½ ins. diam. on broken bed rock and in a mound of stone, 4 ft. base to top, with brass cap mkd.

T10S R8W

S26	S25
S35	S36

1960

Land, rough and mountainous.
Soil, shallow rocky clay loam.
Timber, moderate to scattered juniper.

Beginning at the cor. of secs. 25, 30, 31 and 36, on the E. bdy. of the Tp., monumented by an iron post, 2 ins. diam., set, mkd. and witnessed conforming to the official record.

N. 89° 53' W., bet. secs. 25 and 36.

Over rough mountainous land, through scattered timber.

Asc. 120 ft. over E. slope.

3.80	Spur, slopes S.; desc. 240 ft. over steep rocky W. slope.
10.50	Unimproved road, follows along canyon bottom, bearing irregularly NW and SE.; asc. 320 ft. over steep rocky E. slope.

Survey, Portion of Subdivision, T. 10 S., R. 8 W.

Chains	
17.80	Rocky spur, projects SE. about 5.00 chs. to end; asc. 50 ft. along broken S. slope.
31.90	Canyon, drains SE.; asc. 270 ft. over general E. slope through moderate timber.
40.02	Point for the ¼ sec. cor. of secs. 25 and 36.
	Set an iron post, 36 ins. long, 1 in. diam., 4 ins. in the ground and in a mound of stone, 4 ft. base to top, with brass cap mkd.
	T10S R8W ¼ S25/S36 1960
	Asc. 360 ft. over NE. slope.
54.50	Ridge, bears irregularly N. and S.; desc. 270 ft. over steep broken SW. slope.
71.20	Small gully, drains S. 80° W.; desc. 220 ft.
80.04	The cor. of secs. 25, 26, 35 and 36.
	Land, high broken mountains. Soil, rocky clay loam, exposed limestone outcrops. Timber, scattered to moderate juniper.
	Beginning at the cor. of secs. 16, 17, 20 and 21 monumented by an iron post, 2 ins. diam., set, mkd. and witnessed conforming to the official record.
	East, bet. secs. 16 and 21.
	Over rolling mountainous land, through moderate timber.
	Desc. 10 ft. over E. slope.
.50	Draw, drains S.; asc. 20 ft. over W. slope.
2.50	Finger spur, slopes SW. about 1.00 ch. to end, by triangulation, topography as taken from U. S. G. S. topographic sheet; asc. about 450 ft. over rolling W. slope.
30.00	End of triangulation, slope changes to S.; asc. 60 ft.
40.00	Point for the ¼ sec. cor. of secs. 16 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.
	T10S R8W ¼ S16/S21 1960
	Cont. by triangulation, topography as scaled.
	Asc. 40 ft. over SW. slope.
45.00	Spur, slopes S.; desc. about 80 ft. over SE. slope.

Portion of Subdivision, T. 10 S., R. 8 W.

Chains	
50.30	Draw, drains S.; asc. about 440 ft. over rolling SW. slope through scattered timber.
80.00	Point for the cor. of secs. 15, 16, 21 and 22.
	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 mkd.
	T10S R8W S16 | S15 S21 | S22 1960
	Land, rolling, mountainous. Soil, rocky clay loam and shale. Timber, moderate juniper on W. ½ mile, scattered on remainder.
	N. 0° 02' W., bet. secs. 15 and 16.
	Over steep, rough mountainous land, through scattered timber.
1.80	Ridge top, bears N. 70° W. and irregularly SE., by triangulation, topography as taken from U. S. G. S. topographic sheet; desc. about 360 ft. over steep rocky N. slope.
21.50	Bottom of Lost Canyon, drains W.; willows growing along the bottom canyon indicate water most of the time; however, at present the is dry. Asc. about 240 ft. over steep rocky S. slope.
32.00	Small seep; asc. about 200 ft. over S. slope.
37.80	End of triangulation.
38.00	Ridge, bears E. and W.; desc. 30 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., 12 ins. in the gro and in a mound of stone, 3 ft. base to top, with brass cap mkd.
	T10S R8W ¼ S16 | S15 1960
	from which
	A juniper, 12 ins. diam., bears S. 53° 35' W., 37 lks. dist., mkd. 1/4 BT.
	Cont. by triangulation, topography as taken from U. S. G. S. topo sheet.
	Desc. about 320 ft. over broken NW. slope.
51.30	Wash in bottom of grassy canyon, drains W.; asc. about 420 ft. ove steep broken S. slope.
65.30	End of triangulation on ridge bearing NE. and W.; desc. 240 ft. broken N. slope.
73.00	Slope changes to W.; desc. 20 ft.
79.50	Slope changes to SW.
80.00	Point for the cor. of secs. 9, 10, 15 and 16.

U. S. GOVERNMENT PRINTING OFFICE 16—25580-2 1-1

of Subdivision T. 10 S. R. 8 W.

Chains	
	Set an iron post, 30 ins. long, 2½ ins. in diam., 6 ins. in the ground and in a mound of stone, 3½ ft. base to top, with brass cap mkd. T10S R8W S 9 | S10 S16 | S15 1960 Land, steep rolling and broken mountains. Soil, rocky clay loam and exposed limestone. Timber, scattered juniper.
	S. 89° 59' W., bet. secs. 9 and 16. Over rolling mountainous land, through scattered timber. Desc. 270 ft. over SW. slope.
13.10	Draw, drains N. 70° W.; asc. 60 ft. along rolling N. slope.
26.20	Rocky spur, slopes NW.; desc. 140 ft. over rolling N. slope.
39.40	Small draw, drains N.; desc. 10 ft.
39.98	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 and in a mound of stone, 3½ ft. base to top, with brass cap mkd. T10S R8W ¼ S 9 S16 1960 Asc. 20 ft. along rolling N. slope.
50.50	Top of ascent; desc. 70 ft. over NW. slope through moderate timber.
54.50	Rocky spur, slopes N. 60° W.; desc. 460 ft. over steep SW. slope.
69.40	Small draw, drains N.; desc. 50 ft.
75.00	Wash, 70 lks. wide, 1 ft. deep, drains NW.; asc. 70 ft. over NE. slope.
79.00	Spur, slopes NW. from S.; desc. 30 ft. over W. slope.
79.96	The cor. of secs. 8, 9, 16 and 17, monumented by an iron post, 2 ins. diam., set, mkd. and witnessed as described in the official record. Land, rolling, mountainous. Soil, rocky clay loam. Timber, moderate juniper on W. ½ mile, scattered on remainder.

General Description

The land in sections 16 and 36, T. 10 S., R. 8 W. is extremely rough and mountainous. The soil is shallow, rocky clay loam with shale and limestone outcrops. The elevation above sea level ranges in section 36 from about 6,100 feet in the southeast corner to about 7,767 feet in the north central portion; and in section 16 from about 5,900 feet to 7,178 feet, the highest point being in the northeast quarter. Section 36 is drained southerly by Broad Canyon and its tributaries on the east, and an unnamed canyon on the west; section 16 is drained westerly by Grassy Canyon, Lost Canyon and their tributaries.

of T. 8 W.

Chains	
	Both sections are located on the Simpson Mountains in the Erickson Mining District. There has been limited mining in section 36, but at present there is no activity.
	A moderate growth of juniper is found over most of the area and willows thrive along the bottom of Lost Canyon. Livestock grazing of current interest and is confined mostly to the canyons and lower elevations where there is a fair growth of native grass, buckbrush, yellow brush and sage.
	A fence line extends across part of the south boundary of section 36 The southeast corner of the township is located on the fence line about 5.00 chs. west of a gate, where a jeep road bearing north and south follows along the bottom of Broad Canyon, cutting across the northeast corner of section 36.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FIELD ASSISTANTS

NAMES	CAPACITY
Paul G. Bauer	Transitman
Dan V. Coleman	Chainman (notekeeper)
Douglas L. McInelly	Chainman
Arnold Mann	Flagman
Jerald V. Thompson	Cornerman

230

CERTIFICATE OF CADASTRAL ENGINEER

I, Boyd S. Owens, HEREBY CERTIFY upon honor that, pursuance of special instructions bearing date of the 5th day of May, I have surveyed a portion of the subdivision of T. 10 S. R. 8 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 f field notes.

Salt Lake City, Utah

January 20, 1961

Boyd S. Owens, Cadastral Surveyor

CERTIFICATE OF APPROVAL

BUREAU OF LAND MANAGEMENT,

Washington, D. C., JUN 27 1962, *19*

The foregoing field notes of the survey of a portion of the subdivision of T. 10 S. R. 8 W. SLM., Utah.

executed by Boyd S. Owens, Cadastral Survevor

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

Chief, Division of

CERTIFICATE OF TRANSCRIPT

I, [illegible], is a true copy of the original [illegible]

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

4—679
(September 1948)

237

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

ORIGINAL

FIELD NOTES

OF THE

SURVEY

OF A PORTION OF THE SUBDIVISION

AND THE DEPENDENT RESURVEY

OF A PORTION OF THE SUBDIVISION

OF

TOWNSHIP 11 SOUTH, RANGE 8 WEST

Of the Salt Lake *Meridian,*

In the State of Utah

EXECUTED BY

Boyd S. Owens, Cadastral Surveyor

Under special instructions dated May 5, *19* 60, *which provided for the surveys included under Group No.* 438, *approved* May 18, 1960 *and assignment instructions dated* May 18, *19* 60

Survey commenced July 19, *19* 60

Survey completed July 29, *19* 60

INDEX DIAGRAM

Township 11 South, *Range* 8 West

6	5	4	3	7 2 6 9	9 1 11
7	8	9	10	5 11 4	8 12 3 3
18	17	16	15	14	2 13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

GPO 866119

Township 11 South 8 West

Chains

The north boundary was surveyed by J. Gorlinski in 1875 and independently resurveyed by Clark and Bird in 1947, as shown upon the township plat of T. 10 S., R. 8 W., approved September 27, 1948. The south boundary, a portion of the east and west boundaries and a portion of the subdivisional lines were surveyed by J. Gorlinski in 1876, and shown upon the township plat of T. 11 S., R. 8 W., approved April 30, 1877. The east boundary was resurveyed and completed by Miller and Hayes in 1915, and shown upon the township plat of T. 11 S., R. 7 W., approved June 27, 1916. The west boundary was resurveyed and completed by Vincent et al in 1936, and shown upon the township plat of T. 11 S., R. 9 W., accepted January 18, 1939.

The following field notes are those of a resurvey and survey of a portion of the subdivisional lines of T. 11 S., R. 8 W.

The survey was executed with a W. & L. E. Gurley solar transit No. 591189 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.

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.

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.

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, and other calls of the original field note record. When duly identified the corner positions were remonumented and new accessories taken.

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 duly run and marked through the timber.

The retracement data were submitted for office examination and verification prior to the conclusion of the field work. In order to simplify the record, the true line notes only are supplied herewith, which refer to the completed resurvey and survey of a portion of the subdivisional lines of T. 11 S., R. 8 W. All lines of the original survey are run in accordance with the intent of the special instructions.

Township 11 South, Range 8 West

Chains	
	The geographic position for the cor. of sections 12 and 13 on the east boundary of the township is in latitude 39° 52' 20" N. and longitude 112° 41' 09" W., as scaled from U. S. G. S. topographic sheet.
	The magnetic declination was read at a number of stations throughout these sections and the average of the several readings was found to be 16° 50' E.
	Dependent Resurvey of a Portion of the Subdivision, T. 11 S., R. 8 W.
	Reestablishment of survey executed by J. Gorlinski in 1876.
	Beginning at the cor. of secs. 13, 14, 23 and 24, monumented by a stone, 20x12x12 ins., firmly set and plainly mkd.
	At the same location
	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.
	T11S R8W S14 | S13 S23 | S24 1960
	Deposit the original stone cor. alongside the iron post.
	N. 0° 09' E., bet. secs. 13 and 14.
	Over gentle rolling desert land, through moderate low sage.
	Asc. 90 ft. over gentle S. slope.
40.25	The ¼ sec. cor. of secs. 13 and 14, monumented by a stone, 12x10x8 in. firmly set and plainly mkd.
	At the same location
	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.
	T11S R8W ¼ S14 | S13 1960
	Deposit the original stone cor. alongside the iron post.
	N. 0° 25' E., bet. secs. 13 and 14, beginning new measurement.
	Over gentle rolling desert land, through moderate low sage.
1.80	Small wash, drains SE. from N. irregularly; asc. 40 ft. over gentle S. slope.
23.00	Same wash as one at 1.80; asc. 50 ft.
25.00	Road, bears NW. and SE.; asc. 30 ft.
40.03	Point for the cor. of secs. 11, 12, 13 and 14, at proportionate dist., there is no remaining evidence of the original stone cor.
	At the cor. point

Portion of the Subdivis[illegible] T. 11 S., R. 8 W.

Chains	
	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.
	T11S R8W S11 | S12 S14 | S13 1960
	Land, gentle rolling desert land. Soil, shallow clay and gravel. Timber, none. Undergrowth, moderate to heavy brush.
	N. 2° 21' E., bet. secs. 11 and 12.
	Over gentle rolling desert land, through heavy sage.
1.60	Wash, 50 lks. wide, 3 ft. deep, drains S. 10° E.; asc. 30 ft. over gentle S. slope.
7.20	Road, bears N. 70° W. and S. 70° E.; asc. 10 ft.
9.20	Wash, 20 lks. wide, 4 ft. deep, drains S. 30° E.; asc. 60 ft.
26.00	Wash, 30 lks. wide, 3 ft. deep, drains SE.; asc. 10 ft.
31.00	Same wash as one at 26.00 chs. drains SW., on bend to SE.; asc. 20 ft.
36.00	Gully, drains SE.; asc. 20 ft.
40.07	The ¼ sec. cor. of secs. 11 and 12, monumented by a stone, 24x16x14 ins., firmly set and plainly mkd.
	At the same location
	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.
	T11S R8W ¼ S11 | S12 1960
	Deposit the original stone cor, alongside the iron post.
	The cor. is located on the W. bank of gully draining S.
	Beginning at the cor. of secs. 12 and 13 on the E. bdy. of the Tp. monumented by a 3 in. iron post, set, mkd. and witnessed as described in the official record.
	N. 88° 56' W., bet. secs. 12 and 13.
	Over gentle rolling desert land, through heavy brush.
	Asc. 10 ft.
7.00	Head of draw, drains S.
12.40	Draw, drains S.; desc. 10 ft.
20.40	Gully, drains S.; desc. 10 ft.
23.60	Small wash, drains S.; desc. 10 ft.

Dependent Portion of T. 11 S. R. 8 W.

Chains	
27.40	Small wash, drains S.; desc. 10 ft.
33.50	Small wash, drains S.; desc. 30 ft.
36.80	Unimproved road, bears N. 20° W. and S. 80° E.
38.20	Wash, drains S.
39.32	The ¼ sec. cor. originally set to function as the cor. of secs. 12 and 13, monumented by a stone, 24x12x12 ins. firmly set and plainly mkd. This cor. now functions as the ¼ sec. cor. of sec. 13 only.
	At the same location
	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.
	T11S R8W ¼ S13 1960
	Deposit the original stone cor. alongside the iron post.
	N. 89° 01' W., bet. secs. 12 and 13, beginning new measurement.
	Over gentle rolling desert land.
.69	Point for the ¼ sec. cor. of sec. 12 at 40.00 chs. westing from the sec. cor. of secs. 12 and 13 on the E. bdy. of the Tp.
	Set an iron post, 30 ins. long, 2½ ins. diam., 20 ins. in the [illegible] with brass cap mkd.
	T11S R8W ¼ S12 1960
	Raise a mound of stone, 3 ft. base, 2 ft. high, N. of cor.
5.60	Wash, drains S.; desc. 20 ft.
7.30	Road, bears N. 20° E. and S. 10° W.
22.50	Road, bears N. 10° E. and S. 10° W.
28.60	Small wash, drains S.
34.90	Small wash, drains S.
38.40	Road, bears N. 10° E. and S. 10° W.
39.00	Wash, 50 lks. wide, 3 ft. deep, drains S.
39.56	The cor. of secs. 11, 12, 13 and 14, heretofore described.
	Land, gently rolling desert. Soil, shallow clay and gravel. Timber, none. Undergrowth, moderate to heavy brush.
	From the cor. of 11, 12, 13 and 14.
	N. 89° 07' W., bet. secs. 11 and 14.

243

Dependent Resurvey, Portion of Subdivision, T. 11 S., R. 8 W.

Chains	
	Over rolling desert land through heavy brush.
	Desc. 10 ft.
6.70	Small wash, drains S. 20° W.
9.50	Road, bears N. 30° W. and S. 30° E.; desc. 10 ft., over gently rolling land, S. drainage and exposure.
30.70	Road, unimproved dirt, bears N. 60° W. and S. 60° E.
35.40	Small wash, drains S.
39.40	Wash, 30 lks. wide, 1 ft. deep, drains S.
39.82	The ¼ sec. cor. of secs. 11 and 14, monumented by a sandstone, 16x12x8 ins., firmly set and plainly mkd.
	At the same location
	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.
	T11S R8W ¼ S11/S14 1960
	Deposit the original stone cor. alongside the iron post.
	N. 88° 58' W., bet. secs. 11 and 14, beginning new measurement.
	Over gentle rolling desert land, through heavy brush.
	Desc. 30 ft.
19.40	Small wash, drains S.
27.40	Road, bears N. and S. 10° E.; desc. 10 ft.
40.14	The cor. of secs. 10, 11, 14 and 15, monumented by a large stone, 36x36 ins., 8 ins. above the ground, firmly set and plainly mkd. Unable to move the cor. stone.
	Set a brass tablet, 3½ ins. diam., 3½ in. stem, in drill hole on top of the original stone cor., with cap mkd.
	T11S R8W S10 | S11 S15 | S14 1960
	Raise a large mound of stone W. of cor.
	Land, rolling desert. Soil, shallow clay, gravel and rocks. Timber, none. Undergrowth, heavy brush.
	From the cor. of secs. 10, 11, 14 and 15.
	N. 0° 07' E., bet. secs. 10 and 11.
	Over rolling desert land.
	Asc. 50 ft. over S. slope.

Res Portion of 11 W

Chains	
15.80	Road, bears E. and W. along bench slope; asc. 100 ft. over rolling S. slope.
38.70	Road, bears N. 30° W. and S. 30° E.
40.14	The ¼ sec. cor. of secs. 10 and 11, monumented by a stone, 12x8x6 ins firmly set and plainly mkd.
	At the same location
	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.
	T11S R8W ¼ S10 | S11 1960
	Deposit the original stone cor. alongside the iron post.
	N. 0° 08' W., bet. secs. 10 and 11, beginning new measurement.
	Over rolling desert land, through heavy brush.
	Asc. 10 ft. over gentle S. slope.
5.60	Gully, bears NW. and SE.; asc. 170 ft. over rolling desert land, S. drainage and exposure.
40.17	The cor. of secs. 2, 3, 10 and 11, monumented by a sandstone, 20x12x8 ins., firmly set and plainly mkd.
	At the same location
	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.
	T11S R8W S 3 | S 2 S10 | S11 1960
	Deposit the original stone cor. alongside the iron post.
	Land, rolling desert. Soil, shallow clay loam and gravel. Timber, widely scattered juniper on N. portion.
	From the cor. of secs. 2, 3, 10 and 11.
	East, bet. secs. 2 and 11.
	Over low rolling spurs through scattered juniper.
	Desc. 10 ft. over E. slope.
7.60	Wash, 50 lks. wide, 3 ft. deep, drains S. 10° W.; asc. 50 ft. over W slope.
12.00	Spur, slopes S.; desc. 10 ft. over gentle SE. slope.
16.90	Wash, drains SW.; asc. 20 ft. over NW. slope.
20.00	Spur, slopes SW.; desc. 10 ft. over SE. slope.

Resurvey Portion of Subdivision T. 11 S., R. 8 W.

Chains	
23.80	Bottom of hollow, drains S. 20° W.; asc. 40 ft. over W. slope.
29.80	Jeep road, bears N. 10° E. and S. 10° W., along small finger spur sloping S.
36.30	Wash, drains S.; asc. 10 ft. over W. slope.
38.00	Top of ascent, bears N. and S.
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 stone cor.
	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, 3½ ft. base to top, with brass cap mkd.
	T11S R8W ¼ S 2 / S11 1960
	From the cor. of secs. 2, 3, 10 and 11, hereinbefore described.
	North, bet. secs. 2 and 3,
	Over rolling foot hills through scattered juniper.
	Asc. 60 ft. over S. slope.
13.30	Small wash, drains S. 10° W.; asc. 40 ft.
20.80	Gully, drains S. 10° W.; asc. 60 ft. over rolling land, S. drainage and exposure.
31.90	Small wash, drains S. 20° W.; asc. 40 ft.
40.00	Point for the ¼ sec. cor. of secs. 2 and 3, at record course and dist.; unable to locate the original stone cor. The bearing trees, as recorded in the official record, do not in any way check and were not considered as evidence in restoring this cor.
	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, 3½ ft. base to top, with brass cap mkd.
	T11S R8W ¼ S 3 | S 2 1960
	Deface the original bearing trees.
	Survey of a Portion of the Subdivision of T. 11 S., R. 8 W.
	From the ¼ sec. cor. of secs. 2 and 3.
	N. 0° 02' W., bet. secs. 2 and 3, beginning new measurement.
	Over rolling land, through moderate juniper.
	By triangulation; asc. 150 ft. over rolling land putting SW.

Survey, Portion of Subdivision, T. 11 S., R. 8 W.

Chains	
23.00	End of triangulation on spur sloping SW.; desc. 20 ft. over NW. sl
30.00	Draw, drains SW.
34.40	Gully, drains SW.; asc. 40 ft. over gentle SE. slope.
40.00	Point for the 1/16 cor. of secs. 2 and 3.
	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.
	T11S R8W 1/16 S 3 | S 2 80 1960
	Asc. 60 ft. over SW. slope.
49.50	Top of ascent, bears NE. and SW.; desc. 20 ft. over N. slope.
50.20	Intersect the Second Standard Parallel South at point for the clos cor. of secs. 2 and 3.
	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.
	T10S R8W S35 S 3 | S 2 C C T11S R8W 1960
	From this cor., the standard cor. of secs. 34 and 35, T. 10 S., R. 8 which is an iron post, 2 ins. diam., set, mkd. and witnessed as described in the official record, bears W. 3.80 chs. dist.
	Land, rolling. Soil, rocky clay loam. Timber, moderate juniper on N. 51.00 chs.
	From the ¼ sec. cor. of secs. 11 and 12, previously described.
	N. 0° 01' W., bet. secs. 11 and 12, beginning new measurement.
	Over rolling land, through widely scattered juniper and heavy brush.
	Asc. 10 ft. over S. slope.
5.40	Wash, 20 lks. wide, 3 ft. deep, drains irregularly S.; asc. 80 ft. over S. slope.
15.90	Base of steep ascent; asc. 250 ft. over S. slope.
31.40	Rocky knob on spur sloping sharply S. 30° E. from N. 30° W.; desc. 100 ft. over rocky NE. slope.
38.29	Point for the closing cor. of secs. 1 and 12, hereinafter described.
	Cont. along the E. bdy. of sec. 11; desc. 30 ft.
41.58	Point for the cor. of secs. 2 and 11, E. of the ¼ sec. cor. of secs. 2 and 11.
	Set an iron post, 30 ins. long, 2½ ins. diam., 14 ins. in the ground and in a mound of stone, 3 ft. base to top, with brass cap mkd.

Survey, Portion of Subdivision, T. 11 S., R. 8 W.

Chains	
	T11S R8W S 2 / S11 | S 1 1960
	Land, rolling desert on S. 55.00 chs., mountainous on remainder. Soil, rocky clay loam and gravel. Timber, widely scattered juniper on N. ½ mile.
	From the cor. of secs. 2 and 11 on the W. bdy. of sec. 1.
	West, bet. secs. 2 and 11.
	Over mountainous land.
	Asc. 100 ft. over E. slope.
7.30	Spur, slopes S. 30° E.; desc. 120 ft. over W. slope.
15.60	Wash, drains S.; cont. over low rolling spurs, through widely scattered junipers; asc. 30 ft. over E. slope.
19.70	Road, bears N. and S.; desc. 20 ft. over rolling S. slope.
32.30	Wash, 30 lks. wide, 2 ft. deep, drains S. 15° W.
36.10	Wash, drains S.; asc. 10 ft. over E. slope.
41.72	The ¼ sec. cor. of secs. 2 and 11, hereinbefore described.
	Land, mountainous on E. 15.00 chs., rolling foot hills on remainder. Soil, rocky clay loam and gravel. Timber, widely scattered juniper.
	From the cor. of secs. 2 and 11 on the W. bdy. of sec. 1.
	N. 0° 01' W., bet. secs. 1 and 2.
	Over rolling mountainous land, through scattered juniper.
2.00	Road, bears N. 20° W. and S. 20° E.; asc. 10 ft. over S. slope.
4.60	Wash, 30 lks. wide, 2 ft. deep, drains S. 20° E.; asc. 80 ft. over rolling land along the E. side of small wash, draining S.
16.40	Small wash, drains SW. circling to S.; asc. 130 ft. over rolling land through moderate juniper, S. drainage and exposure.
30.70	Spur, slopes SW.; desc. 10 ft. over gentle NW. slope.
32.70	Small gully, drains SW.; asc. 20 ft. over gentle SW. slope.
36.71	Point for the ¼ sec. cor. of sec. 1 at 40.00 chs. N. of the closing cor. of secs. 1 and 12.
	Set an iron post, 30 ins. long, 2½ ins. diam., 14 ins. in the ground and in a mound of stone, 3 ft. base to top, with brass cap mkd.
	T11S R8W ¼ | S 1 1960
	from which

Survey, Portion of Subdivision, T. 11 S., R. 8 W.

Chains	
	A juniper, 8 ins. diam., bears N. 29° 45' E., 0.43 lks. dist., mkd. T11S R8W ¼ S1 BT.
	Asc. 30 ft.
40.00	Point for the ¼ sec. cor. of sec. 2.
	Set an iron post, 30 ins. long, 2½ ins. diam., 13 ins. in the ground and in a mound of stone, 3 ft. base to top, with brass cap mkd.
	T11S R8W ¼ S 2 1960
	from which
	A juniper, 8 ins. diam., bears N. 35° 44' W., 0.18 lks. dist., mkd. T11S R8W ¼ S2 BT.
	Asc. 90 ft. over SW. slope.
49.10	Top of ascent, slopes SW.; desc. 10 ft. over NW. slope.
51.00	Gully, drains SW.; asc. 60 ft. over rolling land, SW. drainage.
56.90	Draw, drains SW.; asc. 150 ft. over rolling land.
67.40	Gully, drains SW.; asc. 140 ft.
72.40	Spur, slopes SW.; desc. 40 ft. over N. slope.
74.40	Draw, drains S. 80° W.; asc. 30 ft. over SW. slope.
76.71	Point for the 1/16 cor. of sec. 1 at 80.00 chs. N. of the closing co of secs. 1 and 12.
	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.
	T11S 1/16 S 1 R8W 80 1960
	Asc. 40 ft. over SE. slope.
80.00	Point for the 1/16th cor. of sec. 2
	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.
	T11S 1/16 S 2 R8W 80 1960
	Asc. 10 ft.
80.30	Spur, projects S. 70° W. about 5.00 chs. to end; desc. 20 ft. over NW. slope.
81.70	Draw, drains S. 70° W.; asc. 140 ft. over SW. slope.
90.17	Intersect the Second Standard Parallel South at point for the cor. of secs. 1 and 2.

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. T10S R8W S36 S 2 | S 1 T11S CC 1960 From this cor. the standard cor. of secs. 35 and 36, monumented by an iron post, 2 ins. diam., set, mkd. and witnessed as described in the official record, bears W. 5.57 chs. dist. Land, rolling, mountainous. Soil, rocky clay loam and gravel. Timber, moderate juniper.
	The point for the N. ¼ sec. cor. of sec. 1 is 40.00 chs. W. from the closing cor. of Tps. 11 S., Rs. 7 and 8 W. 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, 4 ft. base to top, with brass cap mkd. ¼ S 1 T11S R8W 1960 From the N. ¼ sec. cor. of sec. 1 the standard ¼ sec. cor. of sec. 36, T. 10 S., R. 8 W., bears W. 2.64 chs. dist.
	The point for the N. ¼ sec. cor. of sec. 2 is 40.00 chs. E. from the closing cor. of secs. 2 and 3. 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, 3½ ft. base to top, with brass cap mkd. ¼ S 2 T11S R8W 1960 From the N. ¼ sec. cor. of sec. 2, the standard ¼ sec. cor. of sec. 35, T. 10 S., R. 8 W., bears W. 3.80 chs. dist.
	From the cor. of secs. 1 and 12 on the E. bdy. of the Tp., which is monumented by an iron post, 3 ins. diam., set, mkd. and witnessed as described in the official record. West, bet. secs. 1 and 12. Over rolling foot hills, through heavy brush. Desc. 10 ft. over W. slope.
1.80	Wash, 20 lks. wide, 3 ft. deep, drains S.; asc. 10 ft. over E. slope.
3.60	Low spur, slopes S.; desc. 20 ft. over W. slope.
9.20	Small gully, drains S. 30° W.

Survey, Portion of Subdivision, T. 11 S., R. 8 W.

Chains	
9.70	Jeep road, bears N. and S.
15.20	Gully, drains S.; asc. 20 ft. over rolling land.
22.40	Gully, drains S.; asc. 20 ft. over E. slope.
27.80	Top of ascent, bears NW. and SE.; desc. 40 ft. over SW. slope.
33.40	Wash, 20 lks. wide, 4 ft. deep, drains S.; asc. 10 ft. over E. slope.
35.40	Spur, slopes S.; desc. 10 ft. over W. slope.
38.00	Jeep road, bears N. and S. along small finger spur, sloping S.
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 and in a mound of stone, 3½ ft. base to top, with brass cap mkd.
	T11S R8W ¼ S 1 / S12 1960
	The cor. is located on gentle E. slope.
	Asc. 40 ft. over E. slope.
44.00	Spur, slopes S. 15° E.; desc. 40 ft. over SW. slope.
52.40	Draw, drains S. about 5.00 chs. dist. to pond at Antelope Springs; cont. along rolling S. slope.
56.30	Spur, slopes S.; desc. 40 ft. over W. slope.
60.30	Draw, drains S. 10° E., about 7.00 chs. dist. to pond at Antelope Springs; asc. 40 ft. over E. slope.
62.30	Jeep road, bears N. and S.; desc. 50 ft. over W. slope.
71.40	Road, bears NW. and SE.; desc. 10 ft. over SW. slope.
74.80	Wash, 30 lks. wide, 1 ft. deep, drains S.; asc. 60 ft. over NE. slope.
77.33	Intersect the E. bdy. of sec. 11 at point for the closing cor. of secs. 1 and 12.
	Set an iron post, 30ins. long, 2½ ins. diam., 12 ins. in the ground and in a mound of stone, 3 ft. base to top, with brass cap mkd.
	T11S R8W S11 | S 1 C / S12 C 1960
	From this cor., the cor. of secs. 2 and 11, previously described, bears N. 0° 01' W., 3.29 chs. dist.
	Land, rolling foot hills. Soil, shallow clay and gravel. Timber, widely scattered juniper.

Township 11 South, Range 8 West

Chains

General Description

Sections 1, 2, 11 and 12, T. 11 S., R. 8 W. are located in the foot hills and on the extreme south end of the Simpson Mountains. The land varies from rough and mountainous in the northern portion of section 1, and the northeast part of section 2, to rolling foothills giving way to gentle rolling desert land in sections 11 and 12. There is a moderate to heavy growth of juniper on the mountain areas becoming scattered on the foothills,and heavy brush, bunch grass and shadscale on the desert land.

Mining has been carried on in section 2, primarily in the northeast quarter, and several prospect holes were noted in section 1. At the present time there is no mining activity. The primary interest is the grazing of livestock as a continuous water supply is furnished by Antelope Springs located in the northwest quarter of section 12.

There are several access roads into the area, some of which have recently been extended and improved. The numerous draws, washes and gullies, which drain the land south, make periodic road maintenance necessary.

Chains

Chains

Sections 1, 2, 11 and 12, T. 4 S., R. [illegible] [illegible] and on the exterior [illegible] [illegible] land varies from rough and mountainous [illegible] section 1, and the [illegible] [illegible] giving way to gentle rolling [illegible] [illegible] There is a small [illegible] becoming scattered in the [illegible] [illegible] chaparral on the [illegible] land.

Mining has been carried on in section 1, [illegible] quartzite, and several prospect holes were [illegible] [illegible] [illegible] time there is no mining activity. [illegible] the placing of [illegible] [illegible] by [illegible] [illegible] in the [illegible] [illegible]

There are several access roads into the [illegible] [illegible] [illegible] been [illegible] [illegible] [illegible] [illegible] necessary.

4-680
(Feb., 1950)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FIELD ASSISTANTS

NAMES	CAPACITY
Paul G. Bauer	Transitman
Dan V. Coleman	Chainman (notekeeper)
Douglas L. McInelly	Chainman
Arnold Mann	Flagman
Jerald V. Thompson	Cornerman, axeman

16—52565-2

CERTIFICATE OF CADASTRAL ENGINEER

I, Boyd S. Owens, HEREBY CERTIFY upon honor that, in pursuance of special instructions bearing date of the 5th day of May, I have resurveyed a portion and surveyed a portion of the subdivisional of T. 11 S., R. 8 W.

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 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

January 20, 1961

Boyd S. Owens

Boyd S. Owens, Cadastral Surveyor

CERTIFICATE OF APPROVAL

BUREAU OF LAND MANAGEMENT,

Washington, D. C., JUN 28 1962, *19*

The foregoing field notes of the resurvey and survey of a portion of the subdivisional lines of T. 11 S., R. 8 W., Salt Lake Meridian, Utah

executed by Boyd S. Owens, Cadastral Surveyor

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

Chief, Division of Engineering

CERTIFICATE OF TRANSCRIPT

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

4—879
(September 1948)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

ORIGINAL

FIELD NOTES

OF THE

REDESIGNATION OF CORNERS

ALONG THE WEST BOUNDARY

AND

SURVEY OF THE SOUTH BOUNDARY

AND

A PORTION OF THE SUBDIVISIONAL LINES

OF

T. 18 S., R. 18 E.

Of the Salt Lake *Meridian,*

n the State of Utah

EXECUTED BY

'red R. Chappell, A. D. Griffin, and G. B. Hatch - Crew Chiefs
nder the supervision of:

George D. Voorhees, Cadastral Surveyor in 1960

Craig Sylvester, Cadastral Surveyor in 1961

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

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

nd assignment instructions dated April 14 / July 1 / April 25, *19*60 / 1960 / 1961 and

Survey commenced August 19, *19*60

Survey completed May 16, *19*61

INDEX DIAGRAM

Township 18 South, *Range* 18 East

6	4 5	4	3	2	1
7	4 8	9	10	11	12
18	3 17	14 16 13	12 15	14	13
19	3 20	21 11	22	23	24
30	2 29 16	28 11	27	26	25 9
31	2 32 8	15 33 7	10 34 6	35 5	8 36 5

GPO 866110

Township 18 South, Range 18 East

Chains

The west boundary of T. 18 S., R. 19 E. was originally surveyed by A. J. Stewart Jr., in 1901. The east boundary of T. 18 S., R. 17 E. was originally surveyed by J. C. Clark in 1920.

The west boundary of T. 18 S., R. 19 E. was dependently resurveyed concurrently by A. D. Griffin, under this same survey group. In this work the reestablished corners now refer to R. 19 E. only, and new corners are established along this line referring to R. 18 E. only.

In the present work field investigation disclosed an anticipated longitudinal width of less than five miles between the east and west boundaries of T. 18 S., R. 18 E.; therefore, in accordance with the provisions of the special instructions for Group 399, Utah, corner monuments along the west boundary of T. 18 S., R. 18 E. are altered so as to eliminate the usual 6th Meridional tier of sections. The present work also embodies a survey of the south boundary and a portion of the subdivisional lines of T. 18 S., R. 18 E. situated south of the Uintah and Ouray Indian Reservation boundary. These limited surveys are deemed sufficient to facilitate the development of natural resources and to mark the boundaries of those sections that are normally 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, 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 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 at latitude 39° 12' 31.671" N. and longitude 109° 52' 28.940" 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.

Redesignation of Corners along W. Bdy., T. 18 S., R. 18 E.

Chains

Redesignation of Corners along W. Bdy., T. 18 S., R. 18 E.

Field investigation disclosed an anticipated longitudinal width of less than five miles bet. the E. and W. bdrs. of T. 18 S., R. 18 E.; therefore, in accordance with the provisions of the special instructions for Group 399, Utah, corner monuments along the W. bdy. of said T. 18 S., R. 18 E., are altered so as to eliminate the usual west range of secs. as follows:

The original cor. of Tps. 18 and 19 S., Rs. 17 and 18 E., monumented with an iron post, 3 ins. diam., set, mkd. and witnessed as desc in the official records, now reads

T18S
R17E R18E
S36 | S32
S 1
T19S R17E
1920
1960

The original ¼ sec. cor. of secs. 31 and 36, monumented with an iron post, 1 in. diam., set, mkd. and witnessed as described in the official record, now reads

¼
S36 | S32
1920
1960

The original cor. of secs. 25, 30, 31 and 36, Tps. 18 S., Rs. 17 and 18 E., monumented with an iron post, 2 ins. diam., set, mkd. and witnessed as described in the official record, now reads

T18S
R17E R18E
S25 | S29
S36 | S32
1920
1960

The original ¼ sec. cor. of secs. 25 and 30, monumented with an ir post, 1 in. diam., set, mkd. and witnessed as described in the official record, now reads

¼
S25 | S29
1920
1960

Redesignation of Corners along W. Bdy. T. 18 S., R. 18 E.

Chains

The original cor. of secs. 19, 24, 25 and 30, monumented with an iron post, 2 ins. diam., set, mkd. and witnessed as described in the official record, now reads

```
      T 18 S
R 17 E|R 18 E
  S 24|S 20
  S 25|S 29
      19 20
      19 60
```

The original ¼ sec. cor. of secs. 19 and 24, monumented with an iron post, 1 in. diam., set, mkd. and witnessed as described in the official record, now reads

```
      ¼
S 24|S 20
    |
  19 20
  19 60
```

The original cor. of secs. 13, 18, 19 and 24, monumented with an iron post, 2 ins. diam., set, mkd. and witnessed as described in the official record, now reads

```
      T 18 S
R 17 E|R 18 E
  S 13|S 17
  S 24|S 20
    |
      1920
      1960
```

The original ¼ sec. cor. of secs. 13 and 18, monumented with an iron post, 1 in. diam., set, mkd. and witnessed as described in the official record, now reads

```
      ¼
S 13|S 17
  19|20
  19 60
```

The original cor. of secs. 7, 12, 13 and 18, monumented with an iron post, 2 ins. diam., set, mkd. and witnessed as described in the official record, now reads

```
      T 18 S
R 17 E|R 18 E
  S 12|S 8
  S 13|S 17
      1920
      1960
```

The original ¼ sec. cor. of secs. 7 and 12, monumented with an iron post, 1 in. diam., set, mkd. and witnessed as described in the official record, now reads

Redesi: tion of Corners W. Bdy. T. 18 S. R. 18 E.

Chains

¼
S 12 | S 8
1920
1960

The original cor. of secs. 1, 6, 7 and 12, monumented with an iron post, 2 ins. diam., set, mkd. and witnessed as described in the official record, now reads

T 18 S
R 17 E | R 18 E
S 1 | S 5
S 12 | S 8
1920
1960

The original ¼ sec. cor. of secs. 1 and 6, monumented with an iron post, 1 in. diam., mkd. and witnessed as described in the official record, now reads

¼
S 1 | S 5
19 20
19 60

The original witness cor. of Ts. 17 and 18 S., Rs. 17 and 18 E., monumented with an iron post, 3 ins. diam., set, mkd. and witnessed as described in the official record, now reads

T 17 S
R 17 E | R 18 E
S 36 | S 31
S 1 | S 5
T 18 S
W C
19 20
19 60

The true point for the cor. bears N. 0.41 chs. dist.

Survey of the South Bdy. of T. 18 S., R. 18 E.

Beginning at the point for the closing cor. of Tps. 18 and 19 S., R. 18 E., which is a point 387.41 chs. E. of the Tp. cor. of Tps. 18 S., Rs. 17 and 18 E.

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

T18S
R 18 E | R 19 E
C S36
S31
C S1
T19S
1960

Survey of the South Bdy., T. 18 S., R. 18 E.

Chains	
	From this closing cor. the sec. cor. of secs. 30 and 31, T. 18 S., R. 19 E., monumented with an iron post, 2½ ins. diam., set, mkd. and witnessed as described in the field notes of the dependent resurvey of the W. bdy. of T. 18 S., R. 19 E., bears N. 0° 04' E., a dist. of 1.39 chs.
	West along the S. bdy. of sec. 36.
	Over broken, mountainous land through medium pinon and juniper timber; by triangulation.
	Desc. about 300 ft. over broken W. slope.
5.30	Approximate dist. to head of draw, drains S.; asc. about 300 ft. over E. slope.
28.20	End of one triangulation spur projects S., beginning of another triangulation.
	Desc. about 350 ft. over broken ledges 10 ft. to 50 ft. high, bearing irregularly N. and S.
35.00	Point selected for the witness ¼ sec. cor. of sec. 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 of post, with brass cap mkd.
	T18S R18E W ¼ S36 C 1960
35.10	Approximate dist. to head of canyon drains S.; asc. about 300 ft. over E. slope.
40.00	Point for the ¼ sec. cor. of sec. 36 falls on sloping ledge where cor. cannot be perpetuated.
58.80	End of the triangulation on sandstone ridge, bears N. and W.; beginning of another triangulation, desc. about 400 ft. over steep NW. slope.
80.00	Point for the cor. of 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 of post, with brass cap mkd.
	T18S R18E S35 | S36 1960
	Land, mountainous, broken. Soil, rocky sand. Timber, medium growth of pinon and juniper.
	West along the S. bdy. of sec. 35.
	Over mountainous land through medium growth of pinon and juniper, by triangulation.
	Desc. about 130 ft. over abrupt W. slope.

Survey of the South Bdy. of T. 18 S., R. 18 E.

Chains	
5.10	Approximate dist. to bottom of canyon drains SW.; asc. about 450 ft. over steep, broken E. slope.
32.28	Top of ascent, projects S. 10° E.; end of one triangulation, of another triangulation; desc. about 280 ft. over NW. slope.
39.50	Point selected for the witness ¼ sec. cor. of sec. 35.
	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 of post, with brass cap mkd.
	T18S R18E W ¼ S35 C 1960
40.00	True point for ¼ sec. cor. of sec. 35, falls on ledge where cor. cannot be monumented.
50.00	Approximate dist. to bottom of draw, drains SW.; asc. about 200 ft. over E. slope.
62.00	Approximate dist. to spur, projects S.; desc. about 140 ft. over W. slope.
78.10	Approximate dist. to bottom of canyon, drains S.; asc. about 50 ft. over E. slope.
80.00	Point for the sec. cor. of secs. 34 and 35.
	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 of post, wi brass cap mkd.
	T18S R18E S34 | S35 1960
	Land, mountainous. Soil, sandy, rocky. Timber, medium growth of pinon and juniper.
	West, along the S. bdy. of sec. 34.
	Over mountainous land through medium growth of pinon and juniper.
	Asc. about 400 ft. over abrupt E. slope.
10.20	Slope becomes gradual; asc. about 40 ft.
38.10	Top of ascent, bears NE. and SW.; desc. about 600 ft. over NW.
40.00	Point for the ¼ sec. cor. of sec. 34, about 100 ft. below mesa top.
	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 of post, brass cap mkd.

Chains	
	T18SR18E ¼ S34 1960
65.00	Slope changes to W. slope; desc. about 60 ft.
76.60	Wash, drains. N.; asc. about 10 ft. over E. slope.
78.20	Top of asc. bears N. and S.; desc. about 50 ft. over W. slope.
80.00	Point for the sec. cor. of secs. 33 and 34.
	Set an iron post 30 ins. long, 2½ ins. in diam. 4 ins. in the ground, to bedrock, and in a mound of stone 3½ ft. base to top of post, with brass cap mkd. T18SR18E S33 | S34 1960
	Land: mountainous. Soil: sandy, rocky. Timber: medium growth of pinon and juniper.
	West, along the S. bdy. of sec. 33.
	Over mountainous land through a medium growth of pinon and juniper.
	Desc. about 20 ft. over W. slope.
3.60	Bottom of desc. bears N. and S.; asc. about 100 ft. over E. slope.
16.90	Top of asc. bears N. and S.; desc. about 170 ft. over W. slope.
37.60	Bottom of desc. bears N. and S.; asc. about 30 ft. to ¼ cor.
40.00	Point for the ¼ sec. cor. of sec. 33.
	Set an iron post 30 ins. long, 2½ ins. in diam. on solid stone and in a mound of stone 4½ ft. base to top of post, with brass cap mkd. T18SR18E ¼ S33 1960
	Desc. about 210 ft. along N. slope.
53.60	Slope changes to NW slope; desc. about 100 ft.
65.00	Bottom of canyon, drains SW.; asc. about 160 ft. over SE slope.
79.60	Spur projects S.; desc. about 10 ft.
80.00	Point for the sec. cor. of secs. 32 and 33.

Survey of the S. [illegible] of T. 18 S. R. [illegible]

Chains

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

T18SR18E

S32 | S33

1960

Land: mountainous.
Soil: sandy, rocky.
Timber: medium growth of pinon and juniper.

West along the S. bdy. of sec. 32.

Over mountainous land through a medium of growth of pinon and juni[illegible] desc. about 60 ft. over W. slope.

7.10 Draw, drains SE.; asc. about 30 ft. over E. slope.

10.21 The closing Tp. cor. of Tps. 19 S., Rs. 17 and 18 E. monumented wi[illegible] an iron post 2½ ins. in diam. set, mkd. and witnessed as described in the field notes of the E. bdy. of T. 19 S., R. 17 E., executed concurrently under this same survey group.

Beginning of triangulation.

Asc. about 340 ft. over broken, E. slope.

25.00 Approx. dist to where slope becomes gradual; asc. about 70 ft.

40.00 Point for the ¼ sec. cor. of sec. 32., cor. not monumented.

43.13 End of one triangulation; top of asc. bears N. and S., beginning of another triangulation, desc. about 190 ft. over W. slope.

52.00 Approx. dist. to draw, drains SW.; asc. about 250 ft. over SE slope.

67.41 The cor. of Tps. 18 S., Rs. 17 and 18 E., monumented with a 3 in iron post, set, mkd. and witnessed as previously hereindescribed.

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

From the cor. of secs. 35 and 36, on the S. bdy. of the Tp.

N. 0° 03' E. bet. secs. 35 and 36.

Over broken mountain land, covered with juniper and pinon. By triangulation with distances to topography estimated. Desc. 200 f[illegible] over ledgy N. slope.

9.00 Wash in bottom of canyon, drains SW. from W.; asc. about 650 ft. over ledgy S. slope.

37.30 Top of ridge, 30 lks. wide, bears E. and W. irregular; desc. 120 f[illegible] over ledgy and steep N. slope.

40.00 Point for the ¼ sec. cor. of secs. 35 and 36.

Chains	
	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. T18S R18E ¼ S35 | S36 19 | 61
	Desc. about 700 ft. over steep and ledgy N. slope covered with juniper, pinon and oak brush. By triangulation.
74.00	Wash in bottom of canyon, drains W. irregular from NE.; asc. 100 ft. over rocky S. slope.
80.00	Point for the cor. of secs. 25, 26, 35 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 4 ft. base to top, with brass cap mkd. T18S R18E S26 | S25 S35 | S36 19 | 61 from which A juniper 8 in diam. bears N. 45° E., 5 lks. dist. scribed S25 BT Land: broken mountain Soil: gravel, rocks and ledges Timber: juniper and pinon with oak brush undergrowth.
	From the cor. of secs. 25 and 36 on the E. bdy. of the Tp. which is monumented with an iron post, 2½ ins. diam., mkd., set and witnessed as described in the field notes of the dependent resurvey of the bdy of T. 18 S., R. 19 E., executed concurrently under this same group. N. 89° 48' W. bet. secs. 25 and 36, Over broken mountainous land, covered with juniper and pinon; asc. 15 ft. over E. slope of small spur in bottom lf large draw.
.20	Small spur, slopes N.; desc. 30 ft. over W. slope of spur.
2.30	Gully, drains N.; asc. 400 ft. over steep and broken E. slope.
10.90	Slope changes; asc. 110 ft. along broken N. slope.
16.20	Spur, slopes sharply N., desc. about 400 ft. over ledgy W. slope; by triangulation.
34.10	Draw, drains N.; asc. 150 ft. along steep N. slope.
40.05	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 rock, and in a mound of stone 4 ft. base, to top, with brass cap mkd. T18S R18E ¼ S25 S36 1961

Survey of a Portion of the Subdivision of T.

Chains	
	Desc. 30 ft. along steep N. slope.
48.70	Spur, slopes sharply N. for 5 chs. to canyon bottom; desc. 150 ft. over steep NW. slope.
59.10	Wash in canyon bottom, drains W. irregular from N. 65° E.; asc. 150 ft. over steep SE. slope.
71.10	Top of ascent on steep talus slope; desc. 90 ft. along S. slope.
80.10	The cor. of secs. 25, 26, 35 and 36.
	Land: broken mountain. Soil: gravel and rocks with exposed edges. Timber: juniper and pinon. Undergrowth: oak brush and bunch grass.
	From the cor. of secs. 33 and 34 on the S. bdy. of the Tp.
	N. 0° 02' E. bet. secs. 33 and 34.
	Over broken mountainous land, through medium growth of timber; desc. 120 ft. along W. slope.
6.70	Wash in bottom of draw, 30 lks. wide, 3 ft. deep, drains W. irregular; asc. 415 ft. over steep and ledgy S. slope.
22.30	S. rim of small mesa, bears W. and curves SE.; desc. 25 ft. over top of mesa through heavy timber.
28.50	N. rim same mesa, bears E. and W.; desc. 435 ft. over ledgy N. slope.
40.00	Point for the ¼ sec. cor. of secs. 33 and 34.
	Set an iron post 30 ins. long, 2½ ins. diam. 12 ins. in the ground, to bedrock, and in a mound of stone 3½ ft. base, to top, with brass cap mkd. T18S R18E ¼ S33 | S34 19 | 61
	Desc. 100 ft. over N. slope.
48.00	Wash in bottom of draw, drains S. 70° W.; asc. 300 ft. over steep S. slope and ledges facing S. by triangulation, with topography estimated.
60.00	Rim curves NE. and NW.; asc. 50 ft. over top of spur extending S.
77.00	Rim, 20 ft. high, bears E. and curves NW.; asc. 15 ft. over S. slope on top of spur.
80.00	Point for the cor. of secs. 27, 28, 33 and 34.
	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.

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

Chains	
	T18S R18E S28 | S27 S33 | S34 19 | 61 Cor. falls 20 lks. E. of small ledge facing E. Land, broken mountain. Soil, gravel and rocks with exposed ledges. Timber, juniper and pinon. Undergrowth, black brush and bunch grass.
	N. 0° 02' E. bet. secs. 27 and 28. Over broken mountain land, through scattered timber; asc. 200 ft. over ledgy S. slope of large spur sloping S.
39.60	Leave top of spur which curves NW.; desc. 25 ft. along E. slope.
40.00	Point for the ¼ sec. cor. of secs. 27 and 28. Set an iron post 30 ins. long, 2½ **ins. diameter, 18 ins. in the ground and in a mound of stone 2½ ft. base, to top, with brass cap mkd.** T18S R18E ¼ S28 | S27 19 | 61 Cor. falls at base, of top layer of ledges facing E. Desc. about 200 ft. along ledgy E. slope; by triangulation.
55.00	Bottom of decent along ledgy E. slope; asc. about 250 ft. over ledgy SE. slope.
68.10	Point 15 lks. wide, projects E. 25 lks. to end; desc. about 200 ft. along ledgy E. slope.
80.00	Point for the cor. of secs. 21, 22, 27 and 28, falls on inaccessible ledges facing E. and cannot be monumented. Land, broken mountain Soil, gravel and exposed ledges Timber, pinon and juniper Undergrowth, oak brush and bunch grass
	N. 0° 02' E. bet. secs. 21 and 22. Over broken mountain land, through medium growth of timber, desc. about 30 ft. along ledgy E. slope. By triangulation, topography estimated.
1.00	Bottom of decent on ledgy E. slope, asc. about 250 ft. over ledgy SE. slope.
10.70	Rim, bears E. and curves SW.:; asc. S. slope.
10.80	Point selected for the witness cor. of secs. 21, 22, 27 and 28.

Chains	
	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 stop, with brass cap mkd. T18S R18E S21 | S22 S28 | S27 W C 1961
	Asc. 40 ft. over S. slope.
12.10	Top of barren red shale ridge, bears SW. and E.; desc. about 500 ft over ledgy N. slope covered with tall pinon. By triangulation.
23.00	Wash in bottom of draw, drains NW.; asc. about 200 ft. over broken SW. 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 ground, to bedrock, and in a mound of stone 4 ft. base, to top, with brass cap mkd. T18S R18E ¼ S21 | S22 19 | 61
	Asc. 200 ft. over SW. slope.
60.00	Spur, slopes NW.; desc. 300 ft. over NE. slope.
80.00	Point for the cor. of secs. 15, 16, 21 and 22.
	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. T18S R18E S16 | S15 S21 | S22 19 | 61
	Cor. falls 50 ft. above bottom of canyon. Land, broken mountain. Soil, gravelly with exposed ledges. Timber, juniper and pinon. Undergrowth, oak brush and bunch grass.
	N. 0° 02' E. bet. secs. 15 and 16.
	Over broken mountainous land, covered with pinon and juniper; desc. 50 ft. over NE. slope.
3.30	Bottom of descent, also wash 2 ft. deep, 20 lks. wide, drains NW. 10 chs. to Coal Creek; proceed over brushy bottom of canyon.
7.04	Point selected for a W.P. on left bank at Coal Creek, drains W.
	Set an iron post 30 ins. long, 2½ ins. diam. 22 ins. in the ground, and in a collar of stone, with brass cap mkd.

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

Chains	
	T18S R18E S16 | S15 W | P 19 | 61
	Cont. over bed of Coal Creek.
7.33	Center of Coal Creek and point of intersection with S. bdy. of Uintah and Ouray Indian Reservation. Due to floods and erosion this intersection was not monumented. Land, broken mountain and canyon bottom. Soil, gravel and rocks. Timber, scattered juniper and pinon. Undergrowth, sage and oak brush.
	From the cor. of secs. 15, 16, 21 and 22. West, bet. secs. 16 and 21. Over broken mountainous land, covered with pinon and juniper; asc. 150 ft. over ledgy NE. slope. By traverse, topography estimated.
10.00	Top of ledgy spur, slopes NW.; desc. 200 ft. over ledgy W. slope.
20.00	Wash in draw, drains N.; asc. about 200 ft. over E. slope.
30.00	Spur, slopes N.; desc. 250 ft. over NW. slope.
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, to bedrock, and in a mound of stone 3 ft. base, to top, with brass cap mkd. T18S R18E S16 ¼ _____ S21 1961 Desc. about 50 ft. along NW. slope.
46.00	Rocky draw, drains N. 4 chs. to Coal Creek; asc. 150 ft. over NE. slope.
55.00	Spur, slopes N. at N. base of prominent rock spire about 100 ft. high, 100 ft. diam.; desc. 200 ft. over NW. slope.
61.00	Draw, drains N. about 6 chs. to Coal Creek; asc. 100 ft. along ledgy N. slope.
72.00	Small spur, slopes N.; desc. 50 ft. along ledgy N. slope.
80.00	Point for the cor. of secs. 16, 17, 20 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. T18S R18E S17 | S16 S20 | S21 19 60

-678 b

270

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

Chains	
	from which
	A pinon 3 ins. diam. bears N. 30° W., 35 lks. dist., mkd. S17 BT
	Land, broken mountain Soil, gravel and exposed ledges Timber, pinon and juniper, sage and oak brush undergrowth.
	S. 89° 40' W., bet. secs. 17 and 20.
	Over ledgy mountainous land, covered with med. growth of timber; desc. 100 ft. along N. slope. By triangulation, topography estimated.
4.50	Small wash, drains N.; asc. 150 ft. over E. slope.
9.00	Ledgy spur, slopes N.; desc. 200 ft. over E. slope.
15.00	Rocky draw, drains N.; asc. 100 ft. along N. slope.
40.00	Point for the ¼ sec. cor. of secs. 17 and 20 falls on inaccessible ledges facing E. and cannot be monumented.
43.10	Point selected for the witness ¼ sec. cor. of secs. 17 and 20.
	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.
	T18S R18E ¼ S17 W S20 C 1961
	Cor. falls on top of ledges facing E.
	Asc. 20 ft. over E. slope.
43.90	High spur, slopes N.; desc. 250 ft. over W. slope.
52.00	Wash in draw, drains N.; asc. 200 ft. over NE. slope.
63.80	Spur, slopes N., base of a prominent rocky knob about 60 ft. high, 50 lks. diam. bears S. 40 lks,; desc. 100 ft. over steep W. slope.
67.19	The cor. of secs. 13, 17, 20 and 24 on the W. bdy. of the Tp. hereinbefore described.
	Land, broken mountain Soil, gravel and exposed ledges Timber, scrub juniper and pinon.
	From the cor. of secs. 16, 17 20 and 21.
	N.0° 01' E. bet. secs. 16 and 17.
	Over broken mountainous land covered with juniper and oak brush; desc. 80 ft. over N. slope.
6.87	Point selected for a W.F. on left bank of Coal Creek.

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

Chains

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

T18S R18E
S17↑S16
W P
19 61

7.37 Center of Coal Creek and intersection with the S. bdy. of Uintah and Ouray Indian Reservation. Due to floods and erosion this intersection was not monumented.

Land, broken mountain
Soil, gravel and exposed ledges
Timber, juniper and pinon, sage and oak brush undergrowth

Traverse of Uintah and Ouray Indian Reservation Bdy.

From the intersection of the E. bdy. of sec. 16, and the center of Coal Creek (Indian Reservation Bdy.), hereinbefore described.

Down stream along center of Coal Creek with traverse of Uintah and Ouray Indian Reservation Bdy. in sec. 16.

Over gravelly creek bottom, covered with sage and oak brush.

S. 73°00'W., 1.62 chs.
N. 80°00'W., 19.76 chs.
N. 66°45'W., 6.15 chs.
S. 31°00'W., 3.72 chs.
S. 70°00'W., 13.32 chs.
S. 52°00'W., 5.01 chs.
N. 57°30'W., 7.69 chs.
S. 85°30'W., 18.77 chs.
N. 61°00'W., 7.13 chs.
S. 80°02'W., 3.58 chs. Intersect the W. bdy. of sec. 16, hereinbefore described.

Land, canyon bottom
Soil, gravel
Timber, juniper and pinon
Undergrowth, sage and oak brush

From the cor. of secs. 32 and 33 on the S. bdy. of the Tp.

N. 0° 01' E. bet. secs. 32 and 33.

Over broken mountain land, covered with pinon and juniper; asc. 1025 ft. over ledgy talus S. slope.

38.60 Point selected for the witness ¼ sec. cor. of secs. 32 and 33.

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

T18S R18E
¼
S32↑S33
W C
1961

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

Chains	
	Cor. falls at base of high ledges facing S.
38.65	Base of ledges facing S.; asc. about 400 ft. over ledges facing S. by traverse with topography estimated.
40.00	Point for the ¼ sec. cor. of secs. 32 and 33 falls on inaccessible ledges and cannot be monumented.
43.00	S. rim of high and inaccessible butte, bears NE. and N. irregular, decend along broken W. face of ledges. By traverse, topography estimated.
74.00	Base of ledges, bears S. and curves NE.; proceed along base of ledges in small cove facing W.
79.10	Point selected for the witness cor. of secs. 28, 29, 32 and 33.
	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.
	T18S R18E S29 | S28 S32 | S33 W C 19 61
	Cor. falls in small cove facing W.; asc. ledges facing SW.
80.00	Point for the cor. of secs. 28, 29, 32 and 33 falls on inaccessible ledges and cannot be monumented.
	Land, broken mountain Soil, rocky with exposed ledges Timber, scrub juniper and pinon.
	West, bet. secs. 29 and 32.
	Over broken mountainous land, covered with juniper and pinon, desc. 270 ft. over ledgy SW. slope.
40.00	Point for the ¼ sec. cor. of secs. 29 and 32.
	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.
	T18S R18E ¼ S29 S32 1961
	Cor. falls in small draw draining SW.; asc. 40 ft. along S. slope.
50.60	Small spur, slopes S.; desc. 165 ft. along ledgy S. slope.
67.16	The cor. of secs. 25, 29, 32 and 36, in the W. bdy. of the Tp., hereinbefore discribed.
	Land, broken mountain Soil, rocky with exposed ledges Timber, juniper and pinon

Township 18 South, Range 18 East

Chains	General Discription
	T. 18 S.,R. 18 E. consists entirely of high ledgy ridges and deep canyons draining westward to the Colorado River. The north portion of the township lies within the Uintah and Ouray Indian Reservation, the boundary line being along the center of Coal Creek, which drains west irregular through about the middle of the township. The soil is gravel, rocks and exposed sandstone ledges. The timber is mainly juniper, pinon and a few cottonwood trees in the canyon bottoms, with dense growth of tall pines on the north slopes. The canyon bottoms are covered with sage and oak brush undergrowth. There are no roads in the portion of the township outside the Indian Reservation. The elevation varies from about 6,000 to 8,500 ft. above sea level. No water was noted in the portion of the township surveyed, even Coal Creek being dry during the time of this survey.

U. S. GOVERNMENT PRINTING OFFICE 10—88280-2 GPO 896619

Chains

U. S. GOVERNMENT PRINTING OFFICE 16—[illegible]-2

4-680
(Feb., 1950)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FIELD ASSISTANTS

NAMES	CAPACITY
Alburn D. Griffin	Crew Chief
Fred R. Chappell	Crew Chief
Glen R. Hatch	Crew Chief
Gary T. Oviatt	Chainman
Douglas G. Haycock	Chainman
Rex J. Edwards	Transitman
T. J. Morrish	Cornerman
Max Assay	Flagman
Morris E. Blackburn	Chainman
Parley Pratt	Cornerman
William R. Savage	Transitman
Gary W. Rutledge	Transitman
Wallace R. Ott	Chainman
Jerold G. Brindley	Flagman
Jeddie J. Judd	Cornerman

16—53565-2

276

CERTIFICATE OF CADASTRAL ENGINEER

~~I~~ We, George D. Voorhees and Craig P. Sylvester, HEREBY CERTIFY upon honor that, in pursuance of special instructions bearing date of the 11th day of February, 19[illegible], we ~~I~~ have ~~[illegible]~~ supervised the Redes[illegible]tion of corners al[illegible] the West boundary and [illegible] of the south bd[illegible]. and a [illegible]tion of the subdivisional lines of T. 1[illegible]. 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 and~~ under ~~my~~ our direction; and the 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 [illegible] field notes.

Salt Lake City, Utah

November 3, 1961

George D. Voo[illegible]

Craig P. Sylvester, Cadastral Su[illegible]

CERTIFICATE OF APPROVAL

BUREAU OF LAND MANAGEMENT,

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

The foregoing field notes of the survey of Redesignation of corners al[illegible] the West boundar[illegible] and survey of the south bdy. and a [illegible]rtion of [illegible] lines of T. 18 S., R. 18 E.

executed by Fred R. C[illegible] 11 A. D. Griffin, and G. B. Ha[illegible] Cadastral [illegible] Under the supervision of George D. Voorhees and Craig P. Sylvester, Cadastral [illegible] having been critically examined and found correct, are hereby approved.

Chief, [illegible]

CERTIFICATE OF TRANSCRIPT

~~I CERTIFY~~ that the foregoing transcript of [illegible] R. 18 E., Salt Lake M., U., is a true copy of the original field notes.

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

ORIGINAL

FIELD NOTES

OF THE

DEPENDENT RESURVEY

OF THE SOUTH AND WEST BOUNDARIES

OF

TOWNSHIP 18 SOUTH, RANGE 19 EAST

Of the Salt Lake *Meridian,*

In the State of Utah

EXECUTED BY

George D. Voorhees, Cadastral Surveyor, Chief of Party

Glen B. Hatch, Cadastral Surveyor

A. D. Griffin, Cadastral Surveyor

Under special instructions dated February 11, *19*60, *which provided for the surveys included under Group No.* 399, *approved* February 23, 1960 *and assignment instructions dated* April 14 and July 1, *19*60

Survey commenced September 21, *19* 60

Survey completed October 28, *19* 60

INDEX DIAGRAM

Township 18 South, *Range* 19 East

14	6	5	4	3	2	1
13	7	8	9	10	11	12
12	18	17	16	15	14	13
10	19	20	21	22	23	24
9	30	29	28	27	26	25
8	31	32	33	34	35	36
	7	6	5	4	4	1

GPO 866119

Township 18 South, Range 19 East

Chains

The south and west boundaries of T. 18 S., R. 19 E., were originally surveyed by A. J. Stewart Jr. in 1901.

In 1960 Glen B. Hatch dependently resurveyed the south boundary, and A. D. Griffin dependently resurveyed the west boundary.

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 to ascertain the positions of the lost corners after every reasonable possibility of finding direct evidence of the corner had been exhausted.

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 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 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 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' 33.67" N. and longitude 109° 45' 47.14" 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.

Dependent Resurvey of the South Boundary of T. 18 S., R. 19 E.

Reestablishment of the survey executed by A. J. Stewart Jr. in 1901.

Beginning at the cor. of Tps. 18 and 19 S., Rs. 19 and 20 E., monumented with a sandstone 8x9x18 set, mkd. and witnessed as described in the official record, and with an iron post of local origin, 2 ins. diam. with brass cap mkd.

Township 18 South, Range 19 East

Chains

The south and west boundaries of T. 18 S., R. 19 E., were originally surveyed by A. J. Stewart Jr. in 1901.

In 1960 Glen B. Hatch dependently resurveyed the south boundary, and A. D. Griffin dependently resurveyed the west boundary.

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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' 33.67" N. and longitude 109° 45' 47.14" 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.

Dependent Resurvey of the South Boundary of T. 18 S., R. 19 E.

Reestablishment of the survey executed by A. J. Stewart Jr. in 1901.

Beginning at the cor. of Tps. 18 and 19 S., Rs. 19 and 20 E., monumented with a sandstone 8x9x18 set, mkd. and witnessed as described in the official record, and with an iron post of local origin, 2 ins. diam. with brass cap mkd.

Dependent Resurvey, S. Bdy., T. 18 S., R. 19 E.

Chains

1960
T18S
S36|S31
S 1|S 6
T19S
R19E R20E

At the cor. point

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

T18S
R19E R20E
S36|S31
S 1|S 6
T19S
1960

Bury the old cor. stone and local iron post alongside the new post.

N. 89° 43' W. along the S. bdy. of sec. 36.

Over mountainous land, through dense aspen timber.

0.50 Pioche Canyon, 20 lks. wide, 4 ft. deep drains N.; asc. about 340 ft. over SE. slope through dense aspen timber.

13.35 Road, unimproved, bears N. 10° E. and S. 40° W.

16.30 Top of ascent, bears N. 10° E. and S. 10° W.; desc. about 200 ft. over gradual NW. slope.

19.12 Beginning of triangulation.

19.98 Point for E. 1/16 sec. cor. of sec. 36. Set iron post, 2½ ins. diam., 30 ins. long, 8 ins. in the ground to bedrock and in a mound of stone, 3 ft. base to top of post, with brass cap mkd.

E1/16 S36
1960

25.00 Approximate dist. to ravine, drains N. 10° E.; asc. about 290 ft. over SE. slope.

33.00 Approximate dist. to road, unimproved, bears N. and S.
36.22 Point for N. ¼ sec. cor. sec. 1, T. 19 S., R. 19 E., not monumented.
39.35 End of triangulation; top of ascent, bears N. 70° E. and S. 70° W.; desc. 10 ft. to ¼ sec. cor.

39.96 The original ¼ sec. cor. of secs. 1 and 36, monumented with a sandstone, 4x12x20 ins., set, mkd. and witnessed as described in the official record, and with an iron post of local origin, 2½ ins. diam., with cap mkd.

1960
T18S R19E
¼ S36
S 1
T19S R19E

The original ¼ sec. cor. now functions as the ¼ sec. cor. of sec. 36 only.

t S. T. 18 S. R. 19 E.

Chains	
	At the cor. point
	Set an iron post, 30 ins. long, 2½ ins. diam., 22 ins. in the ground, with brass cap mkd.
	T18S R19E ¼ S36 1960
	Bury the old cor. stone and local iron post alongside the new post.
	N. 89° 43' W., beginning new measurement.
	Desc. about 140 ft. over NW. slope; by triangulation.
0.15	Approximate dist. to road, bears S. 15° W.
5.00	Approximate dist. to road, unimproved, bears N. 15° E. and S. 15° E.
12.00	Approximate dist. to fence, net wire, bears N. 15° E. and S. 15° E.; ravine, drains N. 15° E.; asc. about 120 ft. over NE. slope.
18.00	Approximate dist. to road, unimproved, bears N. and S.
21.18	Top of ascent, projects N.; end of one triangulation.
22.96	Beginning of another triangulation.
	Desc. about 160 ft. over NW. slope.
23.96	Road, unimproved, bears N. 30° E. and S. 30° W.
32.00	Approximate dist. to ravine, drains N. 10° W.; asc. about 170 ft. over NE. slope.
40.35	End of triangulation; the original cor. of secs. 1, 2, 35 and 36, monumented with a sandstone, 4x10x12, set, mkd. and witnessed as described in the official record. This cor. now functions for the cor. of secs. 35 and 36, T. 18 S., R. 19 E., only.
	At the cor. point
	Set an iron post, 30 ins. long, 2½ ins. diam., 22 ins. in the ground with stone cor. buried alongside, with brass cap mkd.
	T18S R19E S35 | S36 S 2 T19S 1960
	Land, mountainous. Soil, loam. Timber, dense aspen and scattered pine.
	N. 89° 37' W. along the S. bdy. of sec. 35.
	Asc. 50 ft. over NE. slope.

Dependent Resurvey, S. Bdy., T. 18 S., R. 19 E.

Chains	
4.59	Top of ascent, bears N. 10° E. and S. 10° W.; beginning of triangulation; desc. about 320 ft. over NW. slope.
21.00	Approximate dist. to ravine, drains N. 10° W.; desc. about 560 ft. over SW. slope.
38.50	End of triangulation.
40.07	Point for the ¼ sec. cor. of sec. 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 to bedrock and in a mound of stone, 3 ft. base to top of post, with brass cap mkd. T18S R19E ¼ S35 T19S 1960
	Beginning of triangulation.
49.00	Approximate dist. to ravine, drains N. 10° W.; asc. about 400 ft. over NE. slope.
63.45	End of triangulation.
64.52	Ridge, bears N. 5° E. and S. 5° W.; desc. 380 ft. over NW. slope.
80.14	The original cor. of secs. 2, 3, 34 and 35, monumented with a sandstone, 4x14x24 ins., set, mkd. and witnessed as described in the official record. This cor. now functions for the cor. of secs. 34 and 35, T. 18 S., R. 19 E. 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, 3 ft. base to top of post, with stone cor. buried alongside iron post, with brass cap mkd. T18S R19E S34 | S35 S 3 T19S 1960 Land, mountainous. Soil, loam, rocky. Timber, dense stands of aspen, scattered pine, and dense stands of oak brush.
	N. 88° 05' W., along the S. bdy. of sec. 34. Over mountainous land, through dense oak and scattered timber. By triangulation; desc. about 180 ft. over NW. slope.
8.30	Approximate dist. to ravine, drains N. 15° W.; asc. about 150 ft. over NE. slope.
19.80	Spur, projects N. 55° E.; desc. about 600 ft. over steep NW. slope.

S. [illegible], T. 18 S., R. 19 E.

Chains	
40.025	Point for the ¼ sec. cor. of sec. 34, 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 to bedrock and in a mound of stone, 3 ft. base to top of post, with brass cap mkd. T18S R19E ¼ S34 T19S 1960 Cont. by triangulation; cont. descent of NW. slope.
46.80	Approximate dist. to ravine, drains N. 10° W.; asc. about 530 ft. over steep NE. slope.
60.20	Approximate dist. to spur, projects N. 20° E.; desc. about 140 ft. over steep NW. slope.
68.00	Approximate dist. to head of ravine, drains N. 15° W.; asc. about 150 ft. over steep NE. slope.
72.56	End of triangulation.
73.60	Spur, projects N. 15° W.; desc. 150 ft. over SW. slope.
80.05	Point for the cor. of secs. 33 and 34, 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 to bedrock and in a mound of stone, 4 ft. base to top of post, with brass cap mkd. T18S R19E S33 | S34 S 4 T19S 1960 Land, mountainous, steep. Soil, sandy loam, rocky. Timber, scattered pine and aspen. Undergrowth, dense oak brush.
	N. 88° 05' W., along the S. bdy. of sec. 33. Over broken, mountainous land, through dense timber. Desc. 130 ft. over SW. slope.
4.50	Enter dense pinon, juniper and mahogany timber, edge bears S. 70° W. and N. 70° E.; asc. 50 ft. along S. slope.
17.40	Desc. 210 ft. along S. slope.
40.025	Point for the ¼ sec. cor. of sec. 33, at proportionate dist.; there is no remaining evidence of the original cor. 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.

Dependent Resurvey, S. Bdy., T. 18 S., R. 19 E.

Chains	
	T18S R19E ¼ S33 T19S 1960
	Desc. abruptly about 1,070 ft. over steep, broken SW. slope; by triangulation.
80.05	Point for the cor. of secs. 32 and 33, at proportionate dist.; there is no remaining evidence of the original cor.
	On spur, projecting W.
	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 R19E S32 | S33 S 5 T19S 1960
	Land, mountainous, 40.00 chs., broken 40.00 chs. Soil, sandy loam, rocky. Timber, dense pinon, juniper, young mahogany.
	N. 88° 05' W., along the S. bdy. of sec. 32.
	Along bottom of Rattle Snake Canyon.
	Desc. 60 ft. over SW. slope.
4.00	Wash, 50 lks. wide, 15 ft. deep, drains S. about 5.00 chs. to main canyon; asc. 50 ft. over E. slope.
14.30	Spur, projects S.; desc. 50 ft. over SW. slope.
23.70	Ravine, drains S.; asc. about 100 ft. over SE. slope.
27.70	Spur, projects S. 15° E., about 6.00 chs.; desc. 100 ft. over SW. slope.
40.00	Spur, projects S. 70° W.
40.025	Point for the ¼ sec. cor. of sec. 32, at proportionate dist.; there is no remaining evidence of the original cor.
	Set an iron post, 30 ins. long, 2½ ins. diam., 2 ins. in the ground to bedrock and in a mound of stone, 3 ft. base to top of post, with brass cap mkd.
	T18S R19E ¼ S32 T19S 1960
	Desc. about 50 ft. over W. slope; by triangulation.
53.00	Approximate dist. to Rattle Snake Creek, 30 lks. wide, 12 ft. deep, with stream of clear water, 3 lks. wide, 2 ins. deep, drains N.70° W.; asc. about 90 ft. over NE. slope.

Dependent Resurvey, S. Bdy., T. 18 S., R. 19 E.

Chains	
60.00	Approximate dist. to spur, projects N. 20° W. about 2.00 chs.; desc. about 100 ft. over SW. slope.
70.00	Approximate dist. to Rattle Snake Canyon, 30 lks. wide, 12 ft. deep, drains S. 60° W.; asc. about 150 ft. over SE. slope.
75.00	Approximate dist. to spur, projects S. about 4.00 chs., then turns to S. 20° E.; desc. about 180 ft. over W. slope.
80.05	Point for the cor. of secs. 31 and 32, at proportionate dist. falls in Rattle Snake Canyon, 100 lks. wide, 15 ft. deep, drains N. 15° W.; an impractical point for cor. monument. Land, bottom of Rattle Snake Canyon. Soil, sandy loam. Timber, scattered pinon and juniper and pine. Undergrowth, oak, serviceberry and sagebrush.
	N. 88° 05' W., along the S. bdy. of sec. 31.
	Along the bottom of Rattle Snake Canyon.
	Asc. 30 ft. over E. slope.
0.75	Point selected for the witness cor. of secs. 31 and 32.
	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 R19E S31 | S32 W S 6 C T19S 1960
2.00	Spur, projects N. about 3.00 chs.; desc. 50 ft. over W. slope; by triangulation.
6.00	Approximate dist. to Rattle Snake Canyon, 20 lks. wide, 6 ft. deep, drains SW. about 1.50 chs., then turns to NW.
10.00	Rattle Snake Canyon, drains NW.; asc. about 150 ft. over NE. slope.
13.00	Approximate dist. to spur, projects S. 10° W.; desc. about 50 ft. over SW. slope.
16.00	Approximate dist. to bottom of descent, bears N. and S.; thence along bottom of canyon.
20.00	Asc. about 100 ft. over E. slope.
28.00	Approximate dist. to spur, projects S.; desc. about 100 ft. over W. slope.
40.025	Point for the ¼ sec. cor. of sec. 31, at proportionate dist.; there is no remaining evidence of the original cor. 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 of post, with brass cap mkd. T18S R19E ¼ S31 T19S 1960

Dependent Resurvey, S. Bdy., T. 18 S., R. 19 E.

Chains	
40.20	Rattle Snake Canyon, 20 lks. wide, 6 ft. deep, with stream of water 2 lks. wide, 1 in. deep, drains NW. about 3.00 chs., thence SW.; asc. 80 ft. over NE. slope.
45.00	Spur, projects N. 15° W.; by triangulation; desc. about 100 ft. over SW. slope.
49.50	Approximate dist. to Rattle Snake Canyon, drains SW. for about 4.00 chs., then turns to W.; asc. about 60 ft. over SE. slope.
64.30	Point of rocky spur, ledge, 40 ft. high, projects S.; desc. 100 ft. over broken SW. slope.
68.40	Rattle Snake Canyon, 50 lks. wide, 7 ft. deep, drains N. 40° W. for about 3.50 chs., then turns to W.; asc. about 90 ft. over NE. slope.
78.87	Point for the SW. cor. of T. 18 S., R. 19 E. at record dist. southing from the cor. of Tps. 17 and 18 S., R. 19 E. and record dist. westing from the cor. of secs. 34 and 35, T. 18 S., R. 19 E.; there is no remaining evidence of the original cor. Set an iron post, 30 ins. long, 2½ ins. diam., 10 ins. in the ground to bedrock and in a mound of stone, 3 ft. base to top of post, with brass cap mkd. T18S R18E R19E S 1 | S31 T19S 1960 Land, bottom of Rattle Snake Canyon. Soil, sandy loam. Timber, scattered pinon and juniper. Undergrowth, sagebrush and oak and scattered serviceberry bushes.

Dependent Resurvey of the West Boundary of T. 18 S., R. 19 E. and the Establishment Thereon of New Corners for Portions of the East Boundaries of Tps. 18 and 19 S., R. 18 E.

Reestablishment of the survey executed by A. J. Stewart Jr. in 1901.

From the SW. cor. of T. 18 S., R. 19 E., described above.

N. 0° 04' E., along the W. bdy. of sec. 31.

31

By triangulation; over nearly level land.

3.30	Rattle Snake Creek, in bed, 30 lks. wide, 4 ft. deep, drains W.; asc. about 200 ft. over SE. slope.
11.02	Point selected for witness ¼ sec. cor. of sec. 1, T. 19 S., R. 18 E. Set an iron post, 30 ins. long, 2½ ins. diam., on solid rock, and in a mound of stone, 4 ft. base, to top of post, with brass cap mkd. T19S R18E W C ¼ S 1 1960

Dependent Resurvey, W. Bdy., T. 18 S., R. 19 E.

Chains

20.81 True point for the ¼ sec. cor. of sec. 1, T. 19 S., R. 18 E., at 40.00 chs. northing from the cor. of secs. 1 and 12 falls on ledge sloping steeply to the S., and cannot be monumented at this point.

25.00 Approximate dist. to top of ascent, projects SW.; desc. about 500 ft. over NW. slope.

30.63 Point selected for witness 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, 3 ft. base to top of post, with brass cap mkd.

T18S
R19E
WC
¼
S31
1960

40.00 True point for the ¼ sec. cor. of sec. 31, at proportionate dist. falls on ledge sloping N. and cannot be monumented.

48.00 Approximate dist. to draw, drains SW.; asc. about 180 ft. over SE. slope.

52.00 Approximate dist. to where slope changes to W.; asc. about 340 ft.

77.54 End of triangulation.

78.61 Point for the closing cor. of Tps. 18 and 19 S., R. 18 E., set and mkd. as described in the field notes of the N. bdy. of T. 19 S., R. 18 E., the survey of which was executed concurrently under this same survey group.

80.00 Point for the cor. of secs. 30 and 31, at proportionate dist.; there is no remaining evidence of the original cor.

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

T18S
R19E
S30
S31
1960

Land, mountainous.
Soil, clay, rocky.
Timber, dense pinon, juniper and pine.

N. 0° 04' E., along the W. bdy. of sec. 30.

Asc. 130 ft. over broken SW. slope.

3.50 Ridge bears E. and W.; beginning of triangulation; desc. about 200 ft. over steep N. slope.

9.70 Approximate dist. to head of draw, drains SE.; asc. about 500 ft. over broken S. slope.

36.63 End of triangulation.

38.61 Point for the ¼ sec. cor. of sec. 36, T. 18 S., R. 18 E., at 40.00 chs. northing from SE. cor. of T. 18 S., R. 18 E.

Dependent Resurvey, W. Bdy., T. 18 S., R. 19 E.

Chains	
	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 R18E ¼ S36 1960
39.70	Head of draw, drains W.; asc. 60 ft. over S. slope.
40.00	Point for the ¼ sec. cor. of sec. 30, at proportionate dist.; there is no remaining evidence of the original cor. Set an iron post, 30 ins. long, 2½ ins. diam., 12 ins. in the ground to bedrock and in a mound of stone, 3½ ft. base to top of post, with brass cap mkd. T18S R19E ¼ S30 1960
44.92	Ridge, bears SE. and NW.; beginning of triangulation; desc. about 1,100 ft. over steep and broken N. slope.
65.00	Approximate dist. to draw, drains NW.; asc. about 60 ft. over SW. slope.
78.61	End of triangulation. Point for the cor. of secs. 25 and 36, T. 18 S., R. 18 E. 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 of post, with brass cap mkd. T18S R18E R19E S25 S36 1960
80.00	Point for the cor. of secs. 19 and 30, at proportionate dist.; there is no remaining evidence of the original cor. 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 R19E S19 S30 1960
	Land, mountainous. Soil, sandy, rocky. Timber, dense pinon, juniper and pine.

N. 0° 04' E., along the W. bdy. of sec. 19.

By triangulation.

4.70	Approximate dist. to rocky spur, projects NW.; desc. about 70 ft. over NE. slope.
16.70	Approximate dist. to South Fork of Main Canyon, drains NW.; asc. about 600 ft. over broken SW. slope.

De endent Resurve W. Bd . T. 18 S., R. 19 E.

Chains

37.12 End of triangulation.

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

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 of post, with brass cap mkd.

T18S
R18E
¼
S25
1960

40.00 Point for the ¼ sec. cor. of sec. 19, 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, 3½ ft. base to top of post, with brass cap mkd.

T18S
R19E
¼
S19
1960

42.52 Spur, projects NW., beginning of triangulation; desc. about 300 ft. over NW. slope.

67.70 Approximate dist. to bottom of canyon, drains NW. for about 5.00 chs. then turns to SW.; asc. about 250 ft. over S. slope.

77.46 End of triangulation.

78.61 Point for the cor. of secs. 24 and 25, T. 18 S., R. 18 E.

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

T18S
R18E
S24
S25
1960

80.00 Point for the cor. of secs. 18 and 19, at proportionate dist.; there is no remaining evidence of the original cor.

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 of post, with brass cap mkd.

T18S
R19E
S18
S19
1960

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

Dependent Resurvey, W. Bdy, T. 18 S., R. 19 E.

Chains	
	N. 0° 04' E., along the W. bdy. of sec. 18.
	By triangulation.
	Asc. about 1,270 ft. over broken and rugged SW. slope.
38.61	Point for the ¼ sec. cor. of sec. 24, T. 18 S., R. 18 E., falls on nearly vertical slope where cor. cannot be established.
40.00	Point for the ¼ sec. cor. of sec. 18, at proportionate dist. falls on nearly vertical slope of shale and sandstone outcropping where cor. cannot be established; there is no remaining evidence of the original cor.
47.54	Point selected for the witness ¼ sec. cor. of sec. 24, T. 18 S., R. 18 E. 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 R18E ¼ S24 WC 1960
47.91	End of triangulation.
47.82	Point selected for the witness ¼ sec. cor. of sec. 18. Set an iron post, 30 ins. long, 2½ ins. diam., 10 ins. in the ground to solid rock and in a mound of stone, 3½ ft. base to top of post, with brass cap mkd. T18S R19E ¼ S18 WC 1960
47.92	Spur projects SE., beginning of triangulation; desc. about 200 ft. along steep E. slope.
78.61	Point for the cor. of secs. 13 and 24, T. 18 S., R. 18 E. Set an iron post, 30 ins. long, 2½ ins. diam., 12 ins. in the ground to solid rock and in a mound of stone, 3 ft. base to top of post, with brass cap mkd. T18S R18E S13 S24 1960
80.00	Point for the cor. of secs. 7 and 18, at proportionate dist.; there is no remaining evidence of the original cor. Set an iron post, 30 ins. long, 2½ ins. diam., 22 ins. in the ground and in a collar of stone, with brass cap mkd. T18S R19E S 7 S18 1960

De endent Resurve , W. Bdy., T. 18 S., R. 19 E.

Chains

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

N. 0° 04' E., along the W. bdy. of sec. 7.

By triangulation; desc. about 300 ft. along E. slope.

34.46 Spur, projects E.; end of one triangulation; beginning of another; cont. descent of E. slope.

38.61 Point for the ¼ sec. cor. of sec. 13, T. 18 S., R. 18 E.

Set an iron post, 30 ins. long, 2½ ins. diam., 6 ins. in the ground to solid rock and in a mound of stone, 3½ ft. base to top of post, with brass cap mkd.

T18S
R18E
¼
S13
1960

40.00 Point for the ¼ sec. cor. of sec. 7, 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.

T18S
R19E
¼
S 7
1960

Desc. about 200 ft. along E. slope.

57.70 Approximate dist. to canyon, drains SE.; asc. about 700 ft. over steep and broken S. slope.

78.61 Point for the cor. of secs. 12 and 13, T. 18 S., R. 18 E.

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

T18S
R18E
S12
S13
1960

79.15 End of one triangulation; ridge bears E. and W.; beginning of another triangulation; desc. about 30 ft. over steep N. slope.

80.00 Point for the cor. of secs. 6 and 7, at proportionate dist.; there is no remaining evidence of the original cor.

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
R19E
S 6
S 7
1960

Chains	
	Land, mountainous. Soil, gravel, outcropping ledges. Timber, dense pinon, juniper and fir.
	N. 0° 04' E., along the W. bdy. of sec. 6.
	By triangulation; desc. about 770 ft. over steep N. slope.
27.70	Approximate dist. to bottom of canyon, drains W.; asc. about 500 ft. over steep S. slope.
38.61	Point for the ¼ sec. cor. of sec. 12, T. 18 S., R. 18 E., falls on steep S. slope where cor. cannot be established.
40.00	Point for the ¼ sec. cor. of sec. 6, at proportionate dist. falls on steep S. slope where cor. cannot be established; there is no remaining evidence of the original cor.
43.01	Point selected for the witness ¼ sec. cor. of sec. 12, T. 18 S., R. 18 E. 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 of post, with brass cap mkd. T18S R18E ¼ S12 W C 1960
43.11	Point selected for the witness ¼ sec. cor. of sec. 6. Set an iron post, 30 ins. long, 2½ ins. diam., 6 ins. in the ground to solid rock and in a mound of stone, 3½ ft. base to top of post, with brass cap mkd. T18S R19E ¼ S 6 W C 1960
43.19	End of triangulation.
43.52	Spur projects W.; beginning of triangulation; desc. about 650 ft. over steep and broken N. slope.
78.27	Point selected for the witness cor. of secs. 1 and 12, T. 18 S., R. 18 E. 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 R18E S 1 S12 W C 1960
78.61	True point for the cor. of secs. 1 and 12 falls on large boulder where cor. cannot be monumented.

De endent Resurve W. Bd . T. 18 S. R. 19 E.

Chains

80.00 Point for the cor. of Tps. 17 and 18 S., R. 19 E., at record dist. S., from the ¼ sec. cor. of sec. 31, T. 17 S., R. 19 E.; there is no remaining evidence of the Tp. cor., or any remaining evidence of the cors. to the E.

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 of post, with brass cap mkd.

T18S	T17S
R18E	R19E
S 1	S31
	S 6
	T18S
1960	

from which

The original ¼ sec. cor. of sec. 31, T. 17 S., R. 19 E., which is monumented with a sandstone, 8x12x22 ins., set, mkd. and witnessed as described in the official record, bears N. 40.00 chs. dist., in place of this cor.

Set an iron post, 30 ins. long, 2½ ins. diam., 12 ins. in the ground, with the old stone cor. buried alongside, and in a mound of stone, 3½ ft. base to top of post, with brass cap mkd.

T17S
R19E
¼
S31
1960

Also from the cor. of Tps. 17 and 18 S., R. 19 E.

Triangulation station HILL, in latitude 39° 16' 28.838" N. and longitude 109° 51' 08.734" W., bears S. 66° 40' 32.4" E., 103.088 chs. dist.

Land, mountainous.
Soil, gravelly loam.
Timber, pinon, juniper and fir.

General Description

The land along the south and west boundaries of T. 18 S., R.19 E. is mountainous and broken, ranging in elevation from 7,000 to 9,500 ft. above sea level. The only road noted is a fairly good one situated near the southeast corner of the township.

There is a small stream of water in Rattle Snake Creek Canyon along the south boundary of section 32.

The area along the west five miles of the south boundary of the township drains westward through the medium of Rattle Snake Creek. Section 36 is drained northerly by means of Pioche Creek Canyon. The west portion of the township drains westerly and southwesterly by the medium of numerous draws and canyons.

Timber over most of the area consists mainly of pinon and juniper, with some scattered fir, spruce and young mahogany. However, near the southeast corner of the township there are dense stands of aspen, and along the south boundary are situated dense patches of oak brush. Soil ranges from rich loam in the southeast portion of the township to sand and gravel in the southwest and west portions.

The south boundary of section 36 forms a part of the boundary of the Uintah and Ouray Indian Reservation boundary line.

4-680
1959)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FIELD ASSISTANTS

NAMES	CAPACITY
Gary T. Oviatt	Chainman
Douglas G. Haycock	Chainman
Rex J. Edwards	Transitman
T. J. Morrish	Cornerman
Max Asay	Flagman
Wallace R. Ott	Transitman
Gordon Shurtz	Chainman
Gary Rutledge	Chainman
Wayne Fisher	Flagman
Parley Pratt	Cornerman

CERTIFICATE OF CADASTRAL SURVEYOR

I, George D. Voorhees, HEREBY CERTIFY upon honor that, pursuance of special instructions bearing date of the 11th day of February, 1960 I have ~~surveyed~~ su ervised the de endent resurve of the south and west boundari of T. 18 S., R. 19 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 th 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 foregoi field notes.

Salt Lake City, Utah
~~(Date)~~

September 24, 1961
(Date)

(C d tral Surveyor)
Geo 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~~ de endent resurve of the south and wes boundaries of T. 18 S., R. 19 E., Salt Lake Meridian, Utah

executed by A. D. Griffin and Glen B. Hatch Cadastral Su e ors u der th supervision of George D. Voorhees, Cadastral Surveyor
having been critically examined and found correct, are hereby approved

Chief, Divi on of gineering

CERTIFICATE OF TRANSCRIPT

I CERTIFY that the foregoing transcript of the field notes of the above-described

rue copy of the original field not

ate)

~~(Cadastral Engineering Staff Officer)~~

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

ORIGINAL

FIELD NOTES

OF THE

SURVEY OF THE EAST AND SOUTH BOUNDARIES

AND

A PORTION OF THE SUBDIVISIONAL LINES

OF

TOWNSHIP 19 SOUTH, RANGE 17 EAST

Of the Salt Lake *Meridian,*

n the State of Utah

EXECUTED BY

A. D. Griffin, Cadastral Surveyor

Under the supervision of George D. Voorhees, Cadastral Surveyor

nder special instructions dated February 11, *1960*, *which provided*

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

nd assignment instructions dated April 14 and July 1, *1960*

Survey commenced August 11, *1960*

Survey completed September 8, *1960*

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

INDEX DIAGRAM

Township 19 South, *Range* 17 East

6	5	4 15	3 17	2 18 19	1	5
7	8	9 15 21	10	11	12	5
18	17 20	16 14 19	15	14	13	4
19	20	21 13	22	23	24	3
30	29 23	28 13	27	26	25 11	2
31 22 10	32 22 9	33 12 8	34 8	35 10 7	36 6	1

16—56770-1

19 South, 17 East

Chains

The west boundary of T. 19 S., R. 17 E. was surveyed by R. C. Yundt in 1941-42. The south boundary of T. 18 S., R. 17 E. was surveyed by J. C. Clark in 1920.

The following field notes are those of the survey of the east boundary, the south boundary and a portion of the subdivisional lines of T. 19 S., R. 17 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 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 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° 07' 10" N. and longitude 109° 57' 05" W., as adjusted from traverses to U. S. G. S. triangulation station "Floy" which is located in the SE¼ of section 35, T. 20½ S., R. 18 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° 30' E.

Survey of the East Boundary of T. 19 S., R. 17 E.

Beginning at the cor. of Tps. 19 and 20 S., Rs. 17 and 18 E., monumented with a 2½ in. iron post, set, mkd. and witnessed as described in the 1960 field notes of T. 20 S., R. 17 E.

North, bet. secs. 32 and 36.

Survey of the East Boundary of T. 19 S., R. 17 E.

Chains	
	By triangulation; desc. about 350 ft. over broken N. slope.
24.00	Approximate dist. to bottom of canyon, drains SW.; asc. about 380 ft over S. slope.
36.74	End of triangulation.
36.80	Spur, projects E.; desc. 20 ft. over gentle N. slope.
40.00	Point for the ¼ sec. cor. of secs. 32 and 36.
	Set an iron post, 30 ins. long, 2½ ins. diam., 12 ins. in the ground to bedrock, in a mound of stone, 3 ft. base to top, with brass cap mkd.
	T19S R17E R18E ¼ S36 | S32 1960
	Thence by triangulation desc. about 300 ft. over NW. slope.
54.00	Approximate dist. to draw, drains E.; asc. about 250 ft. over SE. slope.
56.00	Approximate dist. to small draw, drains SE.
71.00	Approximate dist. to small draw, drains SE.
79.83	End of triangulation.
80.00	Point for the cor. of secs. 25, 29, 32 and 36.
	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.
	T19S R17E R18E S25 | S29 S36 | S32 1960
	Land, mountainous. Soil, sandy, rocky. Timber, pinon and juniper.
	North, bet. secs. 25 and 29.
	Over mountainous land, through scattered timber.
	By triangulation; asc. about 100 ft. over SE. slope.
17.11	Ridge, bears E. and W.; asc. about 10 ft. over rolling land; end of triangulation.
34.00	Desc. about 10 ft. over N. slope.
40.00	Point for the ¼ sec. cor. of secs. 25 and 29.
	Set an iron post, 30 ins. long, 2½ ins. diam., 18 ins. in the ground in a mound of stone to top, with brass cap mkd.

Survey of the East Boundary of T. 19 S., R. 17 E.

Chains	
	T19S R17E R18E ¼ S25 | S29 1960
	Desc. about 60 ft. over N. slope.
51.50	Wash, drains W.
70.00	Asc. about 60 ft. over S. slope.
80.00	Point for the cor. of secs. 20, 24, 25 and 29.
	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.
	T17E R18E S24 | S20 S25 | S29 1960
	Land, mountainous. Soil, sandy, rocky. Timber, scattered pinon and juniper.
	North, bet. secs. 20 and 24.
	Over mountainous land, through scattered timber.
	Asc. about 40 ft. over rocky S. slope.
3.00	Spur, projects W.; desc. about 180 ft. over N. slope.
31.00	Wash, drains NW.; asc. about 20 ft. over SW. slope.
40.00	Point for the ¼ sec. cor. of secs. 20 and 24.
	Set an iron post, 30 ins. long, 2½ ins. diam., 18 ins. in the ground, in a collar of stone, with brass cap mkd.
	T19S R17E R18E ¼ S24 | S20 1960
	By triangulation; asc. about 380 ft. over nearly level land, through dense timber.
53.90	Approx. dist. to base of ascent, bears E. and W.; asc. steep, rocky S. slope.
63.95	End of triangulation.
65.20	Top of ascent; desc. about 20 ft. over gentle N. slope.
72.10	Bottom of descent; asc. about 60 ft. over rocky S. slope.
77.60	Top of ascent, bears E. and W.; desc. 30 ft. over broken N. slope.
80.00	Point for the cor. of secs. 13, 17, 20 and 24.

Survey of the East Boundary of T. 19 S., R. 17 E.

Chains	
	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.
	T19S R17E R18E S13 | S17 S24 | S20 1960
	Land, mountainous. Soil, sandy, loam, rocky. Timber, dense pinon and juniper.
	North, bet. secs. 13 and 17.
	Over mountainous land, through dense timber.
	By triangulation; desc. about 650 ft. over N. slope.
29.00	Approx. dist. to bottom of draw, drains S. 70° W. asc. about 200 ft. over S. Slope.
36.62	End of triangulation.
39.00	Ledge, bears E. and W.
40.00	Point for the ¼ sec. cor. of secs. 13 and 17.
	Set an iron post, 30 ins. long, 2½ ins. diam., 18 ins. in the gr. in a collar of stone to top, with brass cap mkd.
	T19S R17E R18E ¼ S13 | S17 1960
	By triangulation; asc. about 220 ft. over S. slope.
44.00	Approx. dist. to spur, projects W.; desc. N. slope.
48.00	Approx. dist. to bottom of descent; asc. about 60 ft. over S. slope.
57.00	Ridge, bears E. and W.; desc. about 300 ft. over N. slope; end of triangulation.
80.00	Point for the cor. of secs. 8, 12, 13 and 17.
	Set an iron post, 30 ins. long, 2½ ins. diam., 10 ins. in the to bedrock, in a mound of stone, 3½ ft. base to top, with brass cap mkd.
	T19S R17E R18E S12 | S 8 S13 | S17 1960
	Land, mountainous. Soil, rocky. Timber, pinon and juniper.

Survey of the East Boundary of T. 19 S., R. 17 E.

Chains	
	North, bet. secs. 8 and 12.
	Over mountainous land, through medium growth of timber.
	Desc. about 120 ft. over broken N. slope.
6.50	Bottom of draw, drains W. 1.00 ch., thence NW.; asc. about 110 ft. over S. slope.
30.60	Spur, projects W.; desc. about 20 ft. along W. slope.
40.00	Point for the ¼ sec. cor. of secs. 8 and 12.
	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.
	T19S R17E R18E ¼ S12 | S 8 1960
	By triangulation; desc. about 100 ft. over N. slope.
48.00	Approx. dist. to draw; drains W.; asc. about 150 ft. over N. slope.
56.16	Ridge, bears E. and W.; desc. about 740 ft. over series of ledges on N. slope; end of triangulation.
80.00	Point for the cor. of secs. 1, 5, 8 and 12.
	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.
	T19S R17E R18E S1 | S5 S12 | S 8 1960
	Land, mountainous, broken. Soil, rocky. Timber, medium dense pinon and juniper.
	North, bet. secs. 1 and 5.
	Over mountainous land, through medium growth of timber.
	By triangulation, desc. about 200 ft. over NE. slope.
10.00	Approx. dist. to head of draw, drains NW.; asc. about 220 ft. over SW. slope.
28.00	Approx. dist. to spur, projects W.; desc. about 250 ft. over NE. slope.
38.00	Approx. dist. to bottom of Rattle Snake Creek, drains W.; thence asc. about 100 ft. over S. slope.
40.00	Point for the ¼ sec. cor. of secs. 1 and 5 falls on broken ledge where cor. cannot be established.
46.50	Point selected for the witness ¼ sec. cor. of secs. 1 and 5.
	Set an iron post, 30 ins. long, 2½ ins. diam., 6 ins. in the ground to bedrock, in a mound of stone, 3 ft. base to top, with brass cap mkd.

Survey of the East Boundary of T. 19 S., R. 17 E.

Chains	
	T19S R17E R18E S1 S5 W C 1960
47.59	End of triangulation; thence by triangulation desc. about 180 ft. N. slope.
56.00	Approx. dist. to bottom of canyon, drains SW.; thence asc. about ft. over SE. slope.
80.00	Point for the 1/16 sec. cor. of secs. 1 and 5.
	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.
	T19S R17E R18E 1/16 S1 S5 80 1960
	Thence asc. about 100 ft. over SE. slope.
88.57	End of triangulation.
	Spur, projects E.; thence desc. about 80 ft. over N. slope.
98.19	Intersect the S. bdy. of T. 18 S., R. 18 E., at point for closing cor. of Tps. 19 S., Rs. 17 and 18 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
	S1 S5 C C T19S R17E R18E 1960
	from which
	The cor. of secs. 32 and 33, T. 18 S., R. 18 E., bears East 10 chs. dist., and is monumented with an iron post, 2½ ins. diam., set, mkd. and witnessed as described in the field notes of the S bdy. of T. 18 S., R. 18 E., which was surveyed concurrently unde this same survey group.
	Land, mountainous. Soil, rocky clay. Timber, medium dense pinon and juniper.

Survey of the South Boundary of T. 19 S., R. 17 E.

From the cor. of Tps. 19 and 20 S., Rs. 17 and 18 E., monumented with a 2½ ins. iron post, set, mkd. and witnessed as described in the field notes of the 1960 survey of the E. bdy. of T. 20 S., R. 17 E., executed concurrently under this same survey group.

West, along the S. bdy. of sec. 36.

Chains	
	Over broken land, through scattered pinon and juniper.
	By triangulation; desc. about 600 ft. over W. slope.
25.90	Approx. dist. to bottom of canyon, drains SW.; asc. about 350 ft. over E. 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 to bedrock, in a mound of stone, 4 ft. base to top, with brass cap mkd.
	T19S R17E ¼ S36 T20S 1960
	Asc. about 200 ft. over E. slope.
67.40	Spur, projects N.; desc. about 100 ft. over W. slope.
80.00	Point for the 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, 4 ft. base to top, with brass cap mkd.
	T19S R17E S35 | S36 T20S 1960
	Land, mountainous and broken. Soil, rocky. Timber, scattered pinon and juniper.
	West, along the S. bdy. of sec. 35.
	Over broken, mountainous land, through scattered pinon and juniper.
	By triangulation; desc. about 60 ft. over gradual NW. slope.
8.00	Approx. dist. to E. rim of canyon, bears NE. and SW.; desc. about 560 ft. over abrupt NW. slope.
38.00	Approx. dist. to bottom of canyon, drains SW.; asc. about 220 ft. over E. slope.
40.00	Point for the ¼ sec. cor. 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, 3½ ft. base to top, with brass cap mkd.
	T19S R17E ¼ S35 T20S 1960
45.90	Slope changes to S.; asc. about 260 ft. along S. slope.
60.60	End of triangulation on spur projecting S.; desc. about 250 ft. along S. slope.
80.00	Point for the cor. of secs. 34 and 35; falls on large boulder where cor. cannot be established.

Survey of the South Boundary of T. 19 S., R. 17 E.

Chains	
	Land, broken. Soil, rocky. Timber, scattered pinon and juniper.
	West, along the S. bdy. of sec. 34.
.10	Point selected for the witness cor. of secs. 34 and 35.
	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. T19S R17E S34|S35 W C T20S 1960
	Over broken land, through scattered pinon and juniper.
	By triangulation; desc. abtou 300 ft. along S. slope.
23.90	Approx. dist. to draw, drains S.; asc. about 500 ft. along S. slope.
37.28	End of triangulation; spur projects SW.; desc. about 400 ft. over SW. slope by triangulation.
40.00	Point for the ¼ sec. cor. of sec. 34.
	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. T19S R17E ¼ S34 T20S 1960
65.90	Change to W. slope.
75.90	Approx. dist. to bottom of canyon, drains SW.; asc. about 150 ft. over E. slope.
80.00	Point for the cor. of secs. 33 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. T19S R17E S33|S34 T20S 1960
	Land, broken. Soil, rocky. Timber, scattered pinon and juniper.
	West, along the S. bdy. of sec. 33.
	Over broken, mountainous land, through scattered pinon and juniper.
	Asc. about 500 ft. over broken E. slope.

Survey of the South Boundary of T. 19 S., R. 17 E.

Chains	
21.90	Slope changes to S.; asc. about 70 ft. along same.
29.80	Spur, projects S.; desc. about 370 ft. over W. slope.
37.90	Slope changes to N.; desc. about 30 ft. along same.
40.00	Point for the ¼ sec. cor. of sec. 33.
	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.
	T19S R17E ¼ S33 T20S 1960
	Cont. by triangulation; desc. about 450 ft. over NW. slope.
50.00	Approx. dist. to draw, drains SW.; asc. about 60 ft. over SE. slope.
56.00	Approx. dist. to spur, projects S.; desc. about 60 ft. over W. slope.
60.00	Approx. dist. to draw, drains S.; asc. about 300 ft. over E. slope.
75.00	Approx. dist. to head of draw, drains SE.
80.00	Point for the cor. of secs. 32 and 33, on spur projecting S.
	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.
	T19S R17E S32 | S33 T20S 1960
	Land, mountainous, broken. Soil, rocky. Timber, scattered pinon and juniper.
	West, along the S. bdy. of sec. 32.
	Over broken land, through scattered pinon and juniper.
	By triangulation; desc. about 50 ft. over W. slope.
5.00	Approx. dist. to draw, drains S.; asc. about 200 ft. over E. slope.
35.90	Ridge, bears N. and S.; desc. about 660 ft. over broken W. slope.
40.00	Point for the ¼ sec. cor. of sec. 32.
	Set an iron post, 30 ins. long, 2½ ins. diam., 20 ins. in the ground, in a collar of stone to top, with brass cap mkd.
	T19S R17E ¼ S32 T20S 1960
48.30	E. rim of canyon, bears N. and S.; ledge 50 ft. high; desc. abruptly by triangulation.
70.00	Approx. dist. to bottom of canyon, drains SW.; asc. about 300 ft. over E. slope.

Survey of the South Boundary of T. 19 S., R. 17 E.

Chains	
80.00	Point for the cor. of secs. 31 and 32.
	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. T19S R17E S31 | S32 T20S 1960
	Land, broken. Soil, rocky. Timber, scattered pinon and juniper.
	West, along the S. bdy. of sec. 31.
	Over broken land, through scattered pinon and juniper.
	By triangulation; asc. about 40 ft. over SE. slope.
5.20	Approx. dist. to spur, projects S.; desc. about 250 ft. over SW. slope.
22.00	Approx. dist. to draw, drains SE.; asc. about 600 ft. over SE. slope.
40.00	True pt. for the ¼ sec. cor. of sec. 36 falls on steep ledge where cor. cannot be established.
51.20	End of triangulation on W. rim of canyon and ledge 75 ft. high, NE. and S.; asc. about 30 ft. over gentle E. slope.
51.45	Point selected for the witness ¼ sec. cor. of sec. 31.
	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. T19S R17E W ¼ S31 → C T20S 1960
58.40	Ridge, bears N. and S.; desc. about 320 ft. over SW. slope.
81.40	Head of draw, drains NW.; asc. about 60 ft. over N. slope.
84.45	The cor. of Tps. 19 and 20 S., Rs. 16 and 17 E., monumented with an iron post, 3 ins. diam., set, mkd. and witnessed as described in official record.
	Land, broken. Soil, rocky. Timber, scattered pinon and juniper.

Survey of a Portion of the Subdivision of T. 19 S., R. 17 E.

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, through scattered pinon and juniper.

Desc. about 60 ft. over N. slope.

Survey of a Portion of the Subdivision of T. 19 S., R. 17 E.

Chains	
11.00	Bottom of descent, drains W.; asc. about 50 ft. over S. slope.
16.95	Ridge, bears E. and W.; cont. by triangulation about 150 ft. over N. slope.
29.00	Approx. dist. to draw, drains W.; asc. about 60 ft. over S. slope.
39.04	End of triangulation.
39.34	Point selected for the witness 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, with brass cap mkd. T19S R17E ¼ S35 | S36 W C 1960 Cont. by triangulation; desc. about 430 ft. over N. slope.
40.00	True point for the ¼ sec. cor. of secs. 35 and 36 falls on ledge 70 ft. high, bears NE. and SW. and is not monumented.
61.00	Approx. dist. to bottom of canyon, drains irregularly SW.; asc. about 450 ft. over SE. 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 to bedrock, in a mound of stone, 3½ ft. base to top, with brass cap mkd. T19S R17E S26 | S25 S35 | S36 1960 Land, mountainous, broken. Soil, rocky. Timber, scattered pinon and juniper.
	From the cor. of secs. 25, 29, 32 and 36, on the E. bdy. of the Tp.
	N. 89° 56' W., bet. secs. 25 and 36.
	Over broken, mountainous land, through scattered timber.
	Asc. about 320 ft. over E. slope.
14.27	Ridge, 1.00 ch. wide, bears N. and S.; beginning of triangulation; desc. about 700 ft. over NW. slope.
30.25	End of triangulation.
39.92	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 bedrock, in a mound of stone, 4 ft. base to top, with brass cap mkd. T19S R17 E ¼ S25 / S36 1960

Survey of a Portion of the Subdivision of T. 19 S., R. 17 E.

Chains	
	Beginning of triangulation; cont. descent over NW. slope.
68.10	Approx. dist. to bottom of canyon, drains SW.; asc. about 400 ft. over SE. slope.
72.34	End of triangulation on top of ascent, bears NE. and SW.; desc. about 30 ft. over W. slope.
79.84	The cor. of secs. 25, 26, 35 and 36.
	Land, mountainous, broken. Soil, rocky. Timber, scattered pinon and juniper.
	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.
	By triangulation; asc. about 150 ft. over steep and broken S. slo
6.00	Approx. dist. to spur, projects E.; desc. about 200 ft. over N. s
11.00	Approx. dist. to draw, drains E.; asc. about 100 ft. over S. slope.
17.00	Approx. dist. to spur, projects E.; desc. about 200 ft. over N. s
40.00	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 g to bedrock, in a mound of stone, 3½ ft. base to top, with brass mkd. T19S R17E ¼ S33 | S34 1960
	Asc. about 600 ft. over SE. slope.
64.94	End of triangulation on top of vertical ledge 80 ft. high, bears NE and SW.; desc. about 80 ft. over gentle 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., 6 ins. in the ground to bedrock, in a mound of stone, 4 ft. base to top, with brass cap mkd. T19S R17E S28 | S27 S33 | S34 1960
	Land, broken. Soil, rocky. Timber, scattered pinon and juniper.

Chains	
	N. 0° 02' W., bet. secs. 27 and 28.
	Over broken land, through medium dense timber.
	Desc. about 20 ft. over NE. slope.
1.00	Draw, drains NE.; asc. about 20 ft. over SE. slope.
3.40	Small spur, projects E.; desc. about 30 ft. over N. slope.
7.00	Draw, drains SE.; asc. about 190 ft. over S. slope.
32.60	Slope changes to E.; asc. about 60 ft. over same.
40.00	Point for the ¼ sec. cor. of secs. 27 and 28.
	Set an iron post, 30 ins. long, 2½ ins. diam., over a cross (X) cut in solid sandstone, in a mound of stone, 3½ ft. base to top, with brass cap mkd. T19S R17E ¼ S28 | S27 1960
47.12	Spur, projects E.; beginning of triangulation; desc. about 250 ft. over NE. slope.
62.00	Approx. dist. to draw, drains E.; asc. about 250 ft. over S. slope.
77.61	End of triangulation on spur, projects E.; desc. about 10 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 in a collar of stone to top, with brass cap mkd. T19S R17E S21 | S22 S28 | S27 1960
	Land, broken. Soil, rocky. Timber, medium dense pinon and juniper.
	N. 0° 02' W., bet. secs. 21 and 22.
	Over broken, mountainous land, through medium dense timber.
	Desc. about 390 ft. over broken N. slope.
26.00	Wash, 20 lks. wide, 6 ft. deep, drains NW.; asc. about 60 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., 8 ins. in the ground to bedrock, in a mound of stone, 3½ ft. base to top, with brass cap mkd. T19S R17E ¼ S21 | S22 1960

Survey of a Portion of the Subdivision of T. 19 S., R. 17 E.

Chains	
	Thence asc. about 280 ft. over S. slope.
52.80	Ridge, bears E. and W.; desc. about 480 ft. over broken N. slope.
79.70	Bottom of canyon, drains irregularly W.; asc. about 30 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., 10 ins. in the g to bedrock, in a mound of stone, 4 ft. base to top, with brass cap mkd.
	T19S R17E S16 | S15 S21 | S22 1960
	Land, broken. Soil, sandy, rocky. Timber, medium dense pinon and juniper.
	N. 0° 02' W., bet. secs. 15 and 16.
	Over broken, mountainous land, through medium dense timber.
	Beginning of triangulation; asc. about 300 ft. over S. slope.
22.03	End of triangulation on ridge, bears E. and W.; desc. about 300 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 gr in a collar of stone to top, with brass cap mkd.
	T19S R17E ¼ S16 | S15 1960
	Beginning of triangulation; desc. about 50 ft. over N. slope.
46.00	Approx. dist. to draw, drains W.; asc. about 300 ft. over S. slope.
57.39	End of one triangulation on ridge bearing E. and W.; beginning of another triangulation, desc. about 200 ft. over N slope.
74.00	Approx. dist. to small wash, drains NW.
79.39	End of triangulation.
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.
	T19S R17E S 9 | S10 S16 | S15 1960
	Land, mountainous, broken. Soil, sandy, rocky. Timber, scattered pinon and juniper.

Chains	
	N. 0° 02' W., bet. secs. 9 and 10.
	Over broken, mountainous land, through scattered timber.
	Beginning of triangulation; desc. about 450 ft. over broken N. slope.
18.00	Approx. dist. to bottom of canyon, drains W.; asc. about 500 ft. over 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., 20 ins. in the ground, in a collar of stone to top, with brass cap mkd. T19S R17E ¼ S 9 | S10 1960
45.79	End of triangulation.
46.00	Narrow sandstone ridge, bears E. and W. beginning of triangulation; desc. about 500 ft. over broken steep N. 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 ground, in a collar of stone to top, with brass cap mkd. T19S R17E S4 | S3 S 9 | S10 1960
	Land, mountainous, broken. Soil, sandy, rocky. Timber, scattered pinon and juniper.
	N. 0° 02' W., bet. secs. 3 and 4.
	Over broken, mountainous land, through scattered timber.
	Beginning of triangulation; desc. about 30 ft. over N. slope.
5.00	Approx. dist. to bottom of Rattle Snake Creek, with a stream of clear water 3 lks. wide, 3 ins. deep, drains W.; asc. about 90 ft. over broken SW. slope.
10.00	Approx. dist. to small spur projects W.; desc. about 60 ft. over NW. slope.
17.00	Approx. dist. to draw, drains SW.; asc. about 300 ft. over broken SW. slope.
40.00	Point for the ¼ sec. cor. of secs. 3 and 4.
	Set an iron post, 30 ins. long, 2½ ins. diam., 18 ins. in the ground, in a mound of stone to top, with brass cap mkd. T19S R17E ¼ S4 | S3 1960
46.25	End of triangulation.
47.00	Spur, projects W.; beginning of triangulation; desc. about 150 ft. over N. slope.

Survey of a Portion of the Subdivision of T. 19 S., R. 17 E.

Chains	
55.00	Approx. dist. to head of draw, drains W.; asc. about 200 ft. over S. slope.
67.84	End of triangulation on spur projecting W.; desc. about 220 ft. over NW. slope.
75.10	Slope changes to N.; desc. about 110 ft.
80.00	Point for the 1/16 sec. cor. of secs. 3 and 4.
	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.
	T19S R17E 1/16 S4|S3 80 1960
88.50	Draw, drains W.; asc. about 60 ft. over S. slope.
98.14	Intersect the S. bdy. of T. 18 S., R. 17 E.
	Point for the closing 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, 4 ft. base to top, with brass cap
	S4|S3 C C T19S R17E 1960
	from which,
	The original cor. of secs. 2, 3, 34 and 35 bears E. 22.43 chs. 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. 34 and 35, T. 18 S., R. 17 E. only, and is remarked so that it now reads:
	T18S R17E S34|S35 T19S 1960 1920
	Land, mountainous, broken. Soil, sandy, rocky. Timber, scattered pinon and juniper.
	At the point for the closing cor. of secs. 2 and 3, T. 19 S., R. 17 at a calculated dist. of 159.76 chs. W. of the NE. cor. of the Tp., and at a measured dist. of 17.44 chs. E. of the S¼ sec. cor. of sec. 35, T. 18 S., R. 17 E. (which is altered from the original ¼ sec. co of secs. 2 and 35, to now function for sec. 35 only).
	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 mkd.
	S 3|S 2 C C T19S R17E 1960

Survey of a Portion of the Subdivision of T. 19 S., R. 17 E.

Chains	
	S. 0° 01' E., bet. secs. 2 and 3.
	Over broken land, through medium growth of timber.
	Desc. about 30 ft. over S. slope.
.45	Wash, 20 lks. wide, 2 ft. deep, drains SW. about 2.00 chs. then turns S.
9.00	Draw, drains W. 1.00 ch. to main wash; asc. about 140 ft. over NE. slope.
18.10	Spur, projects W.; desc. about 110 ft. over SW. slope.
18.16	Point for the 1/16 sec. cor. of secs. 2 and 3.
	Set an iron post, 30 ins. long, 2½ ins. diam., 20 ins. in the ground, in a collar of stone to top, with brass cap mkd.
	T19S R17E 1/16 S3 | S2 80 1960
29.00	Draw, drains W.; asc. about 100 ft. over NW. slope.
40.50	Spur, projects W.; desc. about 280 ft. over S. slope.
58.16	Point for the ¼ sec. cor. of secs. 2 and 3.
	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.
	T19S R17E S3 | S2 1960
59.00	Draw, 40 ft. below ¼ sec. cor., drains SW.; asc. about 30 ft. over NW. slope.
64.50	Vertical ledge, 70 ft. high, bears E. and W.; desc. about 520 ft. over broken SW. slope.
85.00	Bottom of Rattle Snake Creek, with stream of clear water, 3 lks. wide, 3 ins. deep, drains NW.; asc. about 150 ft. along E. slope.
98.16	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 collar of stone to top, with brass cap mkd.
	T19S R17E S3 | S2 S10 | S11 1960
	Land, broken. Soil, rocky. Timber, scattered pinon and juniper.

Survey of a Portion of the Subdivision of T. 19 S., R. 17 E.

Chains

At the point for the closing cor. of secs. 1 and 2, T. 19 S., R. 17 E., at a calculated dist. of 79.88 chs. West of the NE. cor. of the Tp., and at a measured dist. of 22.68 chs. West of the cor. of Tps. 18 S., Rs. 17 and 18 E., described in the field notes of the survey of the S. bdy. of T. 18 S., R. 18 E., executed concurrently under this same survey group.

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

S 2 | S 1
C C
T19S R17E
1960

S. 0° 01' E., bet. secs. 1 and 2.

Over mountainous land, through scattered timber; desc. about 180 ft over S. slope.

8.20 Wash, 10 lks. wide, 6 ft. deep, drains SE.; asc. about 50 ft. over NE. slope.

18.18 Point for the 1/16 sec. cor. of secs. 1 and 2.

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

T19S R17E
1/16
S2 | S1
80
1960

Cont. by triangulation.

38.40 Top of vertical ledge, 40 ft. high, bears E. and W.; desc. about 450 ft. over S. slope.

57.58 Point selected for the witness ¼ sec. cor. of secs. 1 and 2.

Set an iron post, 30 ins. long, 2½ ins. diam., 4 ins. in the ground to solid rock, in a mound of stone, 3½ ft. base to top, with brass cap mkd.

T19S R17E
¼
S2 | S1
W C
1960

58.18 True point for the ¼ sec. cor. of secs. 1 and 2 falls on vertical ledge where cor. cannot be established.

74.20 Approx. dist. to bottom of Rattle Snake Creek, drains W.; asc. abou 600 ft. over broken N. slope.

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

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

Survey of a Portion of the Subdivision of T. 19 S., R. 17 E.

Chains	
	T19S R17E S2 | S1 S11 | S12 1960
	Land, mountainous and broken. Soil, sandy and rocky. Timber, scattered pinon and juniper.
	N. 89° 55' W., bet. secs. 2 and 11.
	Over broken land, through scattered timber.
	Asc. about 30 ft. over NE. slope.
3.10	Spur, projects N.; desc. about 270 ft. along N. slope.
21.80	Bottom of descent; asc. about 30 ft. along N. slope.
30.10	Spur, projects N.; beginning of triangulation; desc. about 500 ft. over abrupt broken ledges and talus on W. slope.
40.00	End of triangulation and point for the ¼ sec. cor. of secs. 2 and 11.
	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.
	T19S R17E ¼ S 2 S11 1960
48.60	Bottom of Rattle Snake Creek, drains S.; asc. about 110 ft. over E. slope.
49.10	Spur, projects S.; desc. about 40 ft. along S. slope.
57.20	Bottom of Rattle Snake Creek, with stream of clear water, 3 lks. wide, 3 ins. deep, drains N. 80° W.; asc. about 170 ft. along N. slope.
80.00	The cor. of secs. 2, 3, 10 and 11.
	Land, mountainous, broken. 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 broken land, through medium dense timber.
.50	Wash, 20 lks. wide, 3 ft. deep, drains SW.; asc. about 60 ft. over E. slope.
3.60	Spur, projects S.; desc. about 50 ft. along S. slope.
14.00	Bottom of descent; asc. about 70 ft. over SE. slope.
18.10	Spur, projects S. about 3.00 chs.; desc. about 160 ft. over W. slope.

Survey of a Portion of the Subdivision of T. 19 S., R. 17 E.

Chains	
36.20	Draw, drains NW. about 6.00 chs., then irregularly W.; asc. about ft. over NE. slope.
40.00	Point for the ¼ sec. cor. of secs. 16 and 21.
	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.
	T19S R17E ¼ S16/S21 1960
	Asc. about 70 ft. over NE. slope.
52.30	Spur, projects N. about 1.50 chs.; desc. about 60 ft. over W. slope
55.00	Draw, drains N. about 2.00 chs. to main canyon; asc. about 100 ft. over E. slope.
60.20	Spur, projects N. about 4.00 chs.; desc. about 30 ft. over W. slope
62.00	Draw, drains N.; asc. about 180 ft. over NE. slope.
79.00	Spur, projects N.; desc. about 10 ft. along N. 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 gro and raise a mound of stone, 3 ft. base, 2 ft. high, N. of cor., wit brass cap mkd.
	T19S R17E 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; by triangulation; des about 100 ft. over NW. slope.
8.00	Approx. dist. to draw, drains NE.; asc. about 150 ft. over SE. slope
15.00	Approx. dist. to spur, projects NE.; desc. about 250 ft. over NW. slope.
28.00	Approx. dist. to draw, drains NE.; asc. about 400 ft. over SE. slope
40.00	Point for the ¼ sec. cor. of secs. 16 and 17.
	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.
	T19S R17E ¼ S17 | S16 1960
40.32	End of triangulation.

Survey of a Portion of the Subdivision of T. 19 S., R. 17 E.

Chains	
42.10	Spur, projects E.; beginning of triangulation; desc. about 450 ft. over NE. slope.
60.00	Approx. dist. to draw, drains E.; asc. about 450 ft. over S. slope.
80.00	Point for the cor. of secs. 8, 9, 16 and 17. 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. T19S R17E S8 | S9 S17 | S16 1960 Land, mountainous, broken. Soil, sandy, rocky. Timber, scattered pinon and juniper.
	From the cor. of secs. 9, 10, 15 and 16. N. 89° 59' W., bet. secs. 9 and 16. Over broken, mountainous land, through scattered timber. Asc. about 20 ft. over NE. slope.
3.40	Spur, projects N.; desc. about 200 ft. over W. slope.
7.91	Beginning of triangulation.
19.10	Approx. dist. to draw, drains N.; asc. about 400 ft. over NE. slope.
25.06	End of one triangulation on spur projecting N.; beginning of another triangulation; desc. about 150 ft. over W. slope.
34.51	Point selected for the witness ¼ sec. cor. of secs. 9 and 16. Set an iron post, 30 ins. long, 2½ ins. diam., over a cross (X) cut in solid sandstone, in a mound of stone, 3½ ft. base to top, with brass cap mkd. T19S R17E ¼ S 9 S16 WC 1960
34.68	End of one triangulation, beginning of another; desc. about 450 ft. over W. slope.
34.90	Top of vertical ledge, 75 ft. high, bears N. and S.
39.93	True point for the ¼ sec. cor. of secs. 9 and 16 falls on broken ledge where cor. cannot be established.
55.90	Approx. dist. to bottom of canyon, drains NE.; asc. about 600 ft. over SE. slope.
79.86	The cor. of secs. 8, 9, 16 and 17. Land, mountainous, broken. Soil, sandy, rocky. Timber, scattered pinon and juniper.

Su[illegible] of a Portion of the Subdivision of T. 19 S[illegible] R. 17 E.

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 broken land, through scattered timber; asc. about 310 ft. over abrupt S. slope.
6.80	Spur, projects SE.; beginning of triangulation; desc. about 450 ft. over NE. slope.
30.00	Approx. dist. to draw, drains E.; asc. about 400 ft. over S. slope.
40.00	Point for the ¼ sec. cor. of secs. 32 and 33 falls on ledge where cor. cannot be established.
49.80	End of triangulation and point selected for the witness ¼ sec. cor. of secs. 32 and 33.
	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.
	T19S R17E ¼ S32 | S33 W C 1960
	Asc. about 50 ft. over gentle SE. slope.
71.50	Spur, projects E.; desc. about 30 ft. along E. 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 g[illegible] in a collar of stone to top, with brass cap mkd.
	T19S R17E S29 | S28 S32 | S33 1960
	Land, broken S. 50.00 chs., rolling N. 30.00 chs. Soil, sandy, rocky. Timber, scattered pinon 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 450 ft. over abrupt S. slope.
22.50	Top of vertical ledge, 60 ft. high, bears E. and W.
22.69	End of triangulation; asc. about 70 ft. over gentle S. slope.
33.80	Spur, projects W.; desc. about 20 ft. over gentle 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., 20 ins. in the gr[illegible] in a collar of stone to top, with brass cap mkd.

Chains	
	T19S R17E ¼ S31 | S32 1960
41.00	Draw, drains SW.; asc. about 30 ft. over gentle S. slope.
47.60	Spur, projects SW.; desc. about 10 ft. along gentle W. slope.
53.80	Slope changes to N.; desc. about 20 ft.
61.80	Draw, drains NW.; asc. about 10 ft. over gentle SW. slope.
69.10	Spur, projects NW.; desc. about 20 ft. over gentle N. slope.
80.00	Point for the cor. of secs. 29, 30, 31 and 32.
	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.
	T19S R17E S30 | S29 S31 | S32 1960
	Land, broken S. 20.00 chs., rolling N. 60.00 chs. Soil, sandy, rocky. Timber, scattered pinon and juniper.

	From the cor. of secs. 28, 29, 32 and 33.
	N. 89° 58' W., bet. secs. 29 and 32.
	Over rolling land, through scattered timber; desc. about 70 ft. over W. slope.
12.00	Draw, drains N.; asc. about 30 ft. over E. slope.
14.70	Spur, projects N. about 1.00 ch.; desc. about 40 ft. over W. slope.
19.00	Draw, drains N.; asc. about 10 ft. over E. slope.
26.70	Spur, projects N.; desc. about 30 ft. over W. slope.
32.00	Small draw, drains N.; asc. about 20 ft. along N. slope.
40.00	Point for the ¼ sec. cor. of secs. 29 and 32.
	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.
	T19S R17E ¼ S29 S32 1960
	Desc. about 230 ft. over W. slope.
43.00	E. rim of canyon; ledge, 40 ft. high, bears NE. and SW.
49.00	Bottom of canyon, drains N.; asc. about 360 ft. over E. slope.
53.10	W. rim of canyon; ledge, 50 ft. high, bears N. and S.

S[illegible] of a Portion of the Subdivision of T. 19 S., R. 17 E.

Chains	
72.80	Slope changes to N.; asc. about 10 ft. along N. slope.
80.00	The cor. of secs. 29, 30, 31 and 32.
	Land, rolling. Soil, sandy, rocky. Timber, scattered pinon and juniper.

General Description

T. 19 S., R. 17 E., is mountainous, broken land located in the Cliffs near Green River, Utah. Elevation varies from 4,500 to 8,[illegible] feet above sea level.

The area is drained in a westerly direction by Rattle Snake Creek and Tusher Creek and numerous smaller canyons. There is a small stream of clear water in Rattle Snake Creek. No other source of water was noted. There are no roads in the area.

Timber consists of scattered to dense stands of pinon and juniper. The soil is mostly rocky sand with sandstone outcroppings.

U. S. GOVERNMENT PRINTING OFFICE 16—[illegible]-2

4-680
(Feb., 1950)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FIELD ASSISTANTS

NAMES	CAPACITY
A. D. Griffin	Crew Chief
Rex J. Edwards	Transitman
Douglas G. Haycock	Chainman
Gary T. Oviatt	Chainman
David Hickman	Flagman
Dale F. Keller	Cornerman

16—53565-2

324

CERTIFICATE OF CADASTRAL ENGINEER

I, George D. Voorhees, HEREBY CERTIFY upon honor that, [illegible] pursuance of special instructions bearing date of the 11th day of February, [illegible] I have ~~surveyed~~ [illegible] 19[illegible]

of the Salt Lake Meridian, in the State of Utah, which [illegible] represented in the foregoing field notes as having been executed ~~by~~ under my direction; and [illegible] said survey has been made in strict conformity with said instructions, the Manual of Instructions for [illegible] 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

August 16, 1961

George D. Voorhees
Cadastral [illegible]vor

CERTIFICATE OF APPROVAL

BUREAU OF LAND MANAGEMENT,

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

The foregoing field notes of the survey of [illegible] executed by [illegible] Voorhees, Cadastral Surveyor having been critically examined and found correct, are hereby approved.

T. E. Lemington
~~Cadastral Engineering Staff Officer~~
Chief, Division of Engineer[illegible]

CERTIFICATE OF TRANSCRIPT

[illegible] R. 17 E., SLM, Utah, is a true copy of the original [illegible]

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

4—679
(September 1948)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

ORIGINAL

FIELD NOTES

OF THE

SURVEY OF A

PORTION OF THE EAST BOUNDARY

AND

A PORTION OF THE SUBDIVISIONAL LINES

OF

TOWNSHIP 19 SOUTH, RANGE 18 EAST

Of the Salt Lake *Meridian,*

In the State of Utah

EXECUTED BY

Alburn D. Griffin, Surveying Technician
Glen B. Hatch, Surveying Technician
Fred R. Chappell, Cadastral Surveyor

Under the supervision of George D. Voorhees and Craig P. Sylvester,
Cadastral Surveyors

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 and April 25, 1961, *1960*

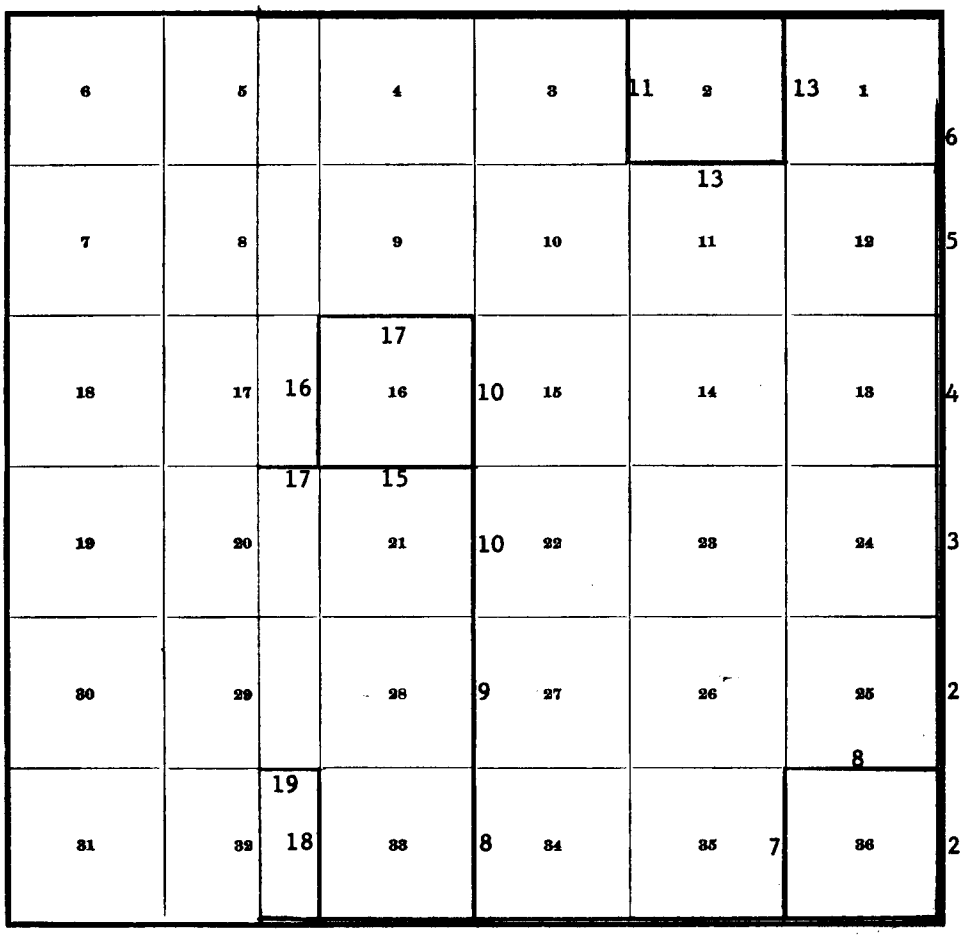
Survey commenced September 9, *1960*

Survey completed May 12, *1961*

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

INDEX DIAGRAM

Township 19 South, *Range* 18 East



Chappell _____
Hatch _____
Griffin _____

Chains

The south and west boundaries of section 31, T. 18 S., R. 19 E., which now form portions of the north and east boundaries of section 1, T. 19 S., R. 18 E. were originally surveyed by A. J. Stewart, Jr., in 1901. These lines were dependently resurveyed by Glen B. Hatch and A. D. Griffin, respectively, in 1960. In the course of the 1960 work new corners were added to refer to section 1, T. 19 S., R. 18 E., only.

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

The survey was executed with W. & L. E. Gurley solar transits, Nos. 541330 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 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 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 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° 07' 10" N. and longitude 109° 52' 16.7" 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' East.

Survey Portion of E. ., T. 19 S., R. 18 E.

Chains	
	Survey of a Portion of the East Boundary of T. 19 S., R. 18 E.
	Beginning at the Tp. cor. of Tps. 19 and 20 S., R. 18 E., monumented with a 2½ in. iron post, 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. 18 E., executed concurrently under this same survey group.
	North, along the E. bdy. of sec. 36.
	Over mountainous land through dense timber.
	By triangulation; desc. about 500 ft. over broken NW. slope.
19.50	Approximate dist. to Right Fork of Tusher Creek, 50 lks. wide, 4 ft. deep, drains S. 40° W.; asc. about 400 ft. over SE. 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 to bedrock and in a mound of stone, 3½ ft. base, to top of post, with brass cap mkd.
	T19S R18E R19E ¼ S36 1960
40.49	End of one triangulation on spur, projects SE.; beginning of another triangulation; asc. about 340 ft. along E. slope.
65.00	Approximate dist. to head of ravine, drains S. 10° E.
72.20	End of triangulation on top of ledge, 50 ft. high, bears S. 80° E. and N. 80° W.; asc. about 20 ft. over gradual SE. slope.
80.00	Point for the cor. of secs. 25 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, 3½ ft. base to top of post, with brass cap mkd.
	T19S R18E R19E S25 S36 1960
	Land, mountainous. Soil, sandy loam, rocky. Timber, dense pinon and juniper.
	North, along the E. bdy. of sec. 25.
	Over broken, mountainous land, through dense timber.
	Asc. about 30 ft. over gradual SE. slope.
4.15	Top of ascent, bears S. 80° W. and N. 80° E.; beginning of triangulation; desc. about 140 ft. over NW. slope.
12.00	Approximate dist. to ravine, drains N. 85° W.; asc. about 120 ft. over SW. slope.

Chains	
23.80	Approximate dist. to point of rocky spur, projects W.; desc. about 190 ft. over NW. slope.
37.43	End of triangulation.
40.00	Point for the ¼ sec. cor. of sec. 25.
	Set an iron post, 30 ins. long, 2½ ins. diam., 10 ins. in the ground to bedrock and in a mound of stone, 3 ft. base to top of post, with brass cap mkd.
	T19S R18E R19E ¼ S25 1960
	Beginning of triangulation.
46.00	Approximate dist. to bottom of canyon, drains S. 30° W.; asc. about 480 ft. over SE. slope.
65.66	End of one triangulation on ridge, bears N. 45° E. and S. 45° W.; beginning of another triangulation; desc. about 400 ft. over NW. slope.
76.00	Approximate dist. to head of ravine, drains S. 80° W.; asc. about 350 ft. over SW. slope.
80.00	Point for the cor. of secs. 24 and 25 falls on precipitous SW. slope where cor. cannot be monumented.
	Land, mountainous, broken. Soil, sand and rocky loam. Timber, dense pinon and juniper.
	North, along the E. bdy. of sec. 24.
	Over broken mountainous land, through dense timber; asc. about 180 ft. over abrupt, broken SW. slope.
8.50	Point selected for the witness cor. of secs. 24 and 25.
	Set an iron post, 30 ins. long, 2½ ins. diam., 4 ins. in the ground to solid rock and in a mound of stone, 3½ ft. base to top of post, with brass cap mkd.
	T19S R18E R19E S24 S25 WC 1960
	Set on ledge 50 ft. high, bears E. and W.
8.70	Spur, projects W. about 4.00 chs.; beginning of triangulation; desc. about 150 ft. over NW. slope.
14.00	Approximate dist. to head of ravine drains W.; asc. about 120 ft. over SW. slope.
18.00	Approximate dist. to top of ledge, 15 ft. high, bears NW. and SE.

of E. Bdy. T. 19 S., R.

Chains	
22.00	Approximate dist. to spur, projects W.; desc. about 40 ft. over N. slope.
28.00	Approximate dist. to ravine, drains W.; asc. about 80 ft. over gentle S. slope.
40.00	Point for the ¼ sec. cor. of sec. 24.
	Set an iron post, 30 ins. long, 2½ ins. diam., 4 ins. in the ground to solid rock and in a mound of stone, 4 ft. base to top of post, with brass cap mkd.
	T19S R18E R19E ¼ S24 1960
40.50	End of triangulation; asc. about 20 ft. over gentle S. slope.
43.86	Top of ascent, bears NE. and SW.; beginning of triangulation; desc. about 640 ft. over NW. slope.
56.00	Approximate dist. 60 ravine, drains N. 80° W.
62.00	Approximate dist. to point of spur, projects W.
73.76	End of triangulation.
75.00	Canyon, drains S. 20° W.; asc. about 150 ft. over SE. slope.
80.00	Point for the cor. of secs. 13 and 24.
	Set an iron post, 30 ins. long, 2½ ins. diam., 15 ins. in the ground to solid rock and in a mound of stone, 2½ ft. base to top of post, with brass cap mkd.
	T19S R18E R19E S13 S24 1960
	Land, mountainous. Soil, sandy loam, rocky. Timber, dense pinon and juniper.
	North, along the E. bdy. of sec. 13.
	Over mountainous land, through dense timber.
	By triangulation; asc. about 400 ft. over SE. slope.
22.26	End of triangulation on top of ledge, 20 ft. high, bears E. and N. 10
29.70	Top of ascent, bears N. 30° W. and S. 30° E.; beginning of triangulation; desc. about 200 ft. over broken and precipitous NE. slope.
31.50	Point selected for the witness ¼ sec. cor. of sec. 13.
	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 of post, with brass cap mkd.

Survey, Portion of E. Bdy., T. 19 S., R. 18 E.

Chains	
	T19S R18E R19E ¼ W C S13↑ 1960
40.00	Point for the ¼ sec. cor. of sec. 13 falls on broken and precipitous NE. slope where corner monument cannot be established.
46.00	Approximate dist. to head of ravine, drains E.; asc. about 120 ft. over SE. slope.
80.00	Point for the cor. of secs. 12 and 13 falls on ledge, 50 ft. high, bears N. 70° E. and S. 70° W., an unsuitable position for cor. monument.
	Land, mountainous, broken. Soil, gravelly and rocky loam. Timber, dense pinon and juniper.
	North, along the E. bdy. of sec. 12.
	Over broken, mountainous land, through dense timber.
1.50	Point selected for the witness cor. of secs. 12 and 13, on top of ledge.
	Set an iron post, 30 ins. long, 2½ ins. diam., 10 ins. in the ground to bedrock, and in a mound of stone 3 ft. base to top of post, with brass cap mkd.
	T19S R18E R19E S12 S13↓ W C 1960
1.80	Spur projects S. 70° W., about 10.00 chs.; asc. about 120 ft. along W. slope.
25.20	Top of ascent, bears S. 80° E. from N. 30° W.; desc. about 60 ft. over steep NE. slope.
27.20	Point selected for the witness ¼ sec. cor. of sec. 12.
	Set an iron post, 30 ins. long, 2½ ins. diam., 3 ins. in the ground to bedrock and in a mound of stone, 4 ft. base to top of post, with brass cap mkd.
	T19S R18E R19E ¼ W C S12↑ 1960
	Beginning of triangulation; desc. about 800 ft. over steep ledges on a broken NE. slope.
40.00	Point for the ¼ sec. cor. of sec. 12 falls on broken NE. slope in a position not suitable for a cor. monument.
52.00	Approximate dist. to ravine, drains N. 30° W.; asc. about 820 ft. over steep, broken SW. slope.
58.00	Approximate dist. to small ravine, drains S. 80° W.

Portion of E. T. 19 S. R. 18

Chains	
71.62	End of triangulation.
79.50	Top of narrow ledge, 70 ft. high, bears N. 40° W. and S. 60° E.; abruptly about 80 ft. over ledge to witness cor.
80.00	Point for the cor. of secs. 1 and 12 falls on ledge where cor. monument cannot be established.
	Land, mountainous, broken. Soil, rocky loam. Timber, dense pinon and juniper; scattered spruce and pine.
	North, along the E. bdy. of sec. 1.
	Beginning of triangulation; desc. about 800 ft. over steep precipit NE. slope through dense timber.
1.50	Point selected for the witness cor. of secs. 1 and 12 at base of le 80 ft. high.
	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 of post, with brass cap mkd.
	T19S R18E R19E S 1 S12 W C 1960
17.80	Point selected for the witness closing cor. of Tps. 19 S., Rs. 18 19 E.
	Set an iron post, 30 ins. long, 2½ ins. diam., 6 ins. in the ground, to solid rock and in a mound of stone, 3½ ft. base, to top of post, with brass cap mkd.
	T18S R19E S31 S 1 S 6 W C C C R18E R19E T19S 1960
18.70	Intersect the S. bdy. of T. 18 S., R. 19 E., at true point for cl cor. of Tps. 19 S., Rs. 18 and 19 E.; falls on rock ledge where cor. monument cannot be established.
	From which
	The SW. cor. of T. 18 S., R. 19 E., bears N. 88° 05' W., 14.67 chs. dist., and is monumented with an iron post, 2½ ins. diam., set, mkd. and witnessed as described in the field notes of the dependent resurvey of the S. bdy. of T. 18 S., R. 19 E., executed concurrently under this same survey group.
	Land, mountainous, broken. Soil, rocky loam. Timber, dense pinon and juniper; scattered pine and spruce.

Survey, Portion of Subdivision, T. 19 S., R. 18 E.

Chains	
	Survey of a Portion of the Subdivisional Lines of T. 19 S., R. 18 E.
	From the cor. of secs. 1, 2, 35 and 36 on the S. bdy. of the Tp., monumented with an iron post, 2½ ins. diam., set, mkd. and witnessed as described in the field notes of the N. bdy. of T. 20 S., R. 18 E.; surveyed concurrently under this same survey group.
	N. 0° 01' W., bet. secs. 35 and 36.
	Over broken land through dense timber.
	Asc. about 80 ft. over SW. slope.
5.70	Slope changes to S. slope; asc. about 100 ft.
16.70	Spur projects W.; desc. about 170 ft. over steep N. slope.
25.80	Base of steep slope; desc. about 40 ft. over gentle N. slope.
37.80	Point selected for the witness 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 and in a mound of stone 4 ft. base to top of post, with brass cap mkd.
	T19S R18E ¼ S35 | S36 W C 1960
40.00	True point for the ¼ sec. cor. of secs. 35 and 36 falls in bottom of draw where cor. monument cannot be permanently established.
	Beginning of triangulation; desc. about 900 ft. over steep, broken N. slope.
75.00	Approximate dist. to bottom of canyon; drains W.; asc. about 100 ft. over abrupt S. slope.
80.00	True point for the cor. of secs. 25, 26, 35 and 36 falls on vertical ledge where cor. monument cannot be established.
	From true cor. point
	Point selected for the witness cor. of secs. 25, 26, 35 and 36 at end of triangulation, bears N. 0° 01' W., 5.20 chs. dist.
	Set an iron post, 30 ins. long, 2½ ins. diam., 3 ins. in the ground to bedrock and in a mound of stone, 4 ft. base to top of post, with brass cap mkd.
	T19S R18E S26 | S25 S35 | S36 W C 1960
	Land, mountainous. Soil, rocky gravel. Timber, dense pinon and juniper.

Survey Portion of Subdivision, T. 19 S., R. 18 E.

Chains	
	From the cor. of secs. 25 and 36 on the E. bdy. of the Tp., previous described.
	N. 89° 57' W., bet. secs. 25 and 36.
	Over mountainous land through dense timber.
	Desc. about 20 ft. over W. slope.
3.00	Draw, drains S.; asc. about 40 ft. over SE. slope.
11.80	Ridge, bears N. and SW., beginning of triangulation; desc. about 360 ft. over NW. slope.
39.99	Point for the ¼ sec. cor. of secs. 25 and 36 falls in bottom of can, where cor. monument cannot be permanently established.
41.88	Point selected for the witness ¼ sec. cor. of secs. 25 and 36; at of triangulation.
	Set an iron post 30 ins. long, 2½ ins. diam., 6 ins. in the ground bedrock and in a mound of stone, 3½ ft. base to top of post, with brass cap mkd.
	T19S R18E ¼ S25/S36 WC 1960
	Asc. about 290 ft. over E. slope.
48.30	Spur, projects S.; desc. about 100 ft. along S. slope; beginning of triangulation.
64.98	End of triangulation. Slope changes to SW. slope; desc. about 300 f
79.98	The true point for cor. of secs. 25, 26, 35 and 36.
	Land, mountainous. Soil, gravelly clay. Timber, dense pinon and juniper.
	From the cor. of secs. 3, 4, 33 and 34 on the S. bdy. of the Tp. mented with a 2½ in. iron post, set, mkd. and witnessed as described in the field notes of the survey of the N. bdy. of T. 20 S., R. 18 E surveyed concurrently under this same survey group.
	N. 0° 02' W., bet. secs. 33 and 34.
	Over mountainous land, through medium dense timber.
	By triangulation; desc. about 250 ft. over N. slope.
16.00	Approximate dist. to Tusher Creek, drains SW.; asc. about 500 ft. over S. slope.
39.80	Top of vertical ledge, 50 ft. high, bears NW. and SE.
40.00	Point for the ¼ sec. cor. of secs. 33 and 34.
	Set an iron post, 30 ins. long, 2½ ins. diam., over a cross (X) cut in solid sandstone, and in a mound of stone 4 ft. base to top of pos with brass cap mkd.

Survey, Portion of Subdivision, T. 19 S., R. 18 E.

Chains	
	T19S R18E ¼ S33 | S34 1960
46.18	End of one triangulation; beginning of another; asc. about 80 ft. over SW. slope.
52.00	Approximate dist. to spur, projects W.; desc. about 70 ft. over N. slope.
59.00	Approximate dist. to draw, drains SW. for about 2.00 chs. then turns to S.; asc. about 620 ft. over S. slope.
80.00	Point for the sec. cor. of secs. 27, 28, 33 and 34; falls on vertical ledge where cor. cannot be monumented. Land, mountainous. Soil, rocky clay. Timber, medium dense pinon and juniper.
	N. 0° 02' W., bet. secs. 27 and 28. Over mountainous land, through medium dense timber; asc. about 100 ft. over S. slope.
5.70	Point selected for the witness cor. of secs. 27, 28, 33 and 34. Set an iron post, 30 ins. long, 2½ ins. diam., 3 ins. in the ground to bedrock and in a mound of stone, 4 ft. base to top of post, with brass cap mkd. T19S R18E S28 | S27 S33 | S34 W C 1960
18.00	Spur, projects E.; desc. about 110 ft. over N. slope.
28.80	Top of ledge, 30 ft. high, bears NE. and SW.; desc. about 420 ft. over abrupt N. slope.
40.00	Point for the ¼ sec. cor. of secs. 27 and 28; 150 ft. above draw. 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 of post, with brass cap mkd. T19S R18E ¼ S28 | S27 1960
	Cont. by triangulation; desc. about 150 ft. over N. slope.
48.00	Approximate dist. to draw, drains W.; asc. about 450 ft. over S.slope.
63.33	End of triangulation.
66.00	Ridge, bears E. and W.; desc. about 280 ft. over NW. slope.
77.70	Head of draw, drains W.; asc. about 10 ft. along W. slope.
80.00	Point for the cor. of secs. 21, 22, 27 and 28. Set an iron post, 30 ins. long, 2½ ins. diam., 8 ins. in the ground to be mound of s ft.base to

Survey, Portion of [illegible]vision T. 19 S. R. 18 E.

Chains	
	T19S R18E S21 | S22 S28 | S27 1960
	Land, mountainous. Soil, rocky clay. Timber, medium dense pinon and juniper.
	N. 0° 02' W., bet. secs. 21 and 22.
	Over mountainous, broken land through medium dense timber.
	Asc. about 20 ft. along W. slope.
3.90	Spur, projects W.; desc. about 160 ft. over N. slope.
23.30	Wash, in bottom of canyon; 30 lks. wide, 2 ft. deep, drains SW.; asc. about 230 ft. over SE. slope.
36.40	Spur, projects SW.; desc. about 30 ft. along W. slope.
40.00	Point for the ¼ sec. cor. of secs. 21 and 22.
	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 of post, with brass cap mkd.
	T19S R18E ¼ S21 | S22 1960
	Beginning of triangulation; desc. about 80 ft. along W. slope.
48.00	Approximate dist. to bottom of canyon, drains SW.; asc. about 50 ft. over S. slope.
52.00	Approximate dist. to spur, projects E.; desc. about 50 ft. over N. slope.
57.00	Approximate dist. to same canyon, drains SW. for about 1.00 ch. then turns to SE.; asc. about 100 ft. over SE. slope.
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 to bedrock and in a mound of stone, 4 ft. base to top of post, with brass cap mkd.
	T19S R18E S16 | S15 S21 | S22 1960
	[illegible]l, broken. [illegible]il, rocky sand. [illegible]er, medium dense pinon and juniper.
	N. 0° 02' W., bet. secs. 15 and 16.
	Over broken land through medium dense timber; cont. by triangulation

Survey, Portion of Subdivision, T. 19 S., R. 18 E.

Chains	
0.95	Spur, projects SE.; end of one triangulation, beginning of another; desc. about 80 ft. over NE. slope.
10.00	Approximate dist. to draw, drains SE.; asc. about 150 ft. over SW. slope.
24.00	Approximate dist. to spur, projects W.; desc. about 70 ft. over N. slope.
30.00	Approximate dist. to draw, drains SW.; asc. about 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., 8 ins. in the ground to bedrock and in a mound of stone, 4 ft. base to top of post, with brass cap mkd.
	T19S R18E ¼ S16 | S15 1960
40.93	End of one triangulation; spur, projects SW.; beginning of another triangulation; desc. about 110 ft. over NW. slope.
60.00	Approximate dist. to draw, drains W.; asc. about 130 ft. over S. slope.
76.50	End of triangulation on ridge, bears E. and W.; desc. about 110 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., 6 ins. in the ground to bedrock and in a mound of stone, 4 ft. base to top of post, with brass cap mkd.
	T19S R18E S 9 | S10 S16 | S15 1960
	Land, broken. Soil, rocky clay. Timber, medium dense pinon and juniper.
	At the point for the cor. of secs. 2 and 3 on the N. bdy. of the Tp. which point is calculated to be 160.00 chs. westing from the closing cor. of Tps. 19 S., Rs. 18 and 19 E., previously described.
	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 of post, with brass cap mkd.
	S 3 | S 2 T19S R18E 1961
	from which
	The cor. of secs. 34 and 35, T. 18 S., R. 18 E., bears W., 14.57 chs. dist., and is monumented with an iron post;

of T R.

Chains	
	2½ ins. diam., set, mkd. and witnessed as described in the field notes of the survey of the S. bdy. of said township, executed concurrently under this same survey group.
	S. 0° 01' E., bet. secs. 2 and 3.
	Over broken mountainous land covered with dense timber; asc. 110 ft. over NW. slope.
12.40	Spur, slopes S. for 10 chs. then turns to SW.; desc. 10 ft. over SE. slope.
17.98	Point for the 1/16 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, 3½ ft. base, to top, with brass cap mkd.
	T19S R18E 1/16 S 3 | S 2 80 1961
	Desc. 25 ft. over SE. slope.
19.80	Top of rim of ledges, bears SW. and NE.; desc. about 300 ft. over ledges facing SE. and steep SE. slope; by triangulation.
31.70	Approximate dist., draw, drains SW.; asc. about 250 ft. over NW. slope.
42.60	Approximate dist., high spur, slopes S. 70° W.; desc. about 450 ft. over SE. slope.
57.98	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, to bedrock and in a mound of stone, 4 ft. base, to top, with brass cap mkd.
	T19S R18E ¼ S 3 | S 2 1961
	Desc. 50 ft. over SE. slope.
63.50	Bottom of canyon, small stream of water 12 ins. wide, 3 ins. deep, drains SW.; asc. about 640 ft. over ledgy NW. slope, covered with dense timber; by triangulation.
92.30	Approximate dist., high ridge, bears NE. and SW.; desc. 80 ft. over SE. slope and broken ledges facing SE.
97.98	Point for the cor. of secs. 2, 3, 10 and 11.
	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.
	T19S R18E S 3 | S 2 S10 | S11 1961

Chains	
	Land, broken mountain. Soil, gravel, rocks and exposed ledges. Timber, pinon and juniper. Undergrowth, sage and oak brush.
	N. 89° 56' E., bet. secs. 2 and 11, on a course calculated bet. the corner of sections 1 and 12 on the E. bdy. and the cor. of secs. 1, 5, 8 and 12 on the W. bdy. of the Tp. Over broken mountain land, covered with pinon and juniper; desc. about 400 ft. over SE. slope; by triangulation.
35.00	Approximate dist., bottom of canyon, drains N. 80° W.; asc. 70 ft. over NW. 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. T19S R18E ¼ S 2 / S11 1961 Asc. about 700 ft. over ledges on a brushy NW. slope; by triangulation.
69.90	Approximate dist., spur, slopes SW.; asc. 190 ft. over W. slope.
77.00	Approximate dist., top of ridge, bears N. 10° W. and S. 10° E.; desc. 70 ft. over E. slope on ridge top.
78.43	Point selected for the witness cor. of secs. 1, 2, 11 and 12. 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. T19S R18E S 2 | S 1 → W S11 | S12 C 1961 Desc. E. slope.
78.65	Top of ledges, bear N. and S.; desc. over ledges facing E.
80.00	Point for the cor. of secs. 1, 2, 11 and 12, falls on ledges facing E. and cannot be monumented. Land, broken mountain. Soil, gravel, rocks and exposed ledges. Timber, juniper and pinon.
	N. 0° 05' E., bet. secs. 1 and 2. Over mountainous land, covered with pinon and juniper; asc. 35 ft. along ledgy E. slope.
5.40	Small spur, slopes E.; desc. 135 ft. along ledgy E. slope.

Portion of Subdivision, T. 19 S., R. 18 E.

Chains	
17.20	Spur, slopes E.; desc. about 700 ft. over ledgy N. slope, through heavy timber and brush; by triangulation.
40.00	Point for the ¼ sec. cor. of secs. 1 and 2. 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. T19S R18E ¼ S 2 | S 1 1961 Cor. falls at base of N. slope in canyon.
44.10	Bottom of Rattle Snake Canyon, small stream of water, 12 ins. wide, 3 ins. deep, drains W.; asc. about 800 ft. over steep SE. slope and ledges, facing SE.; by triangulation.
80.00	Point for the 1/16 sec. cor. of secs. 1 and 2 falls on inaccessible ledges facing SE. and cannot be monumented.
88.90	Top of ledges, facing SE.; cont. over top of ridge.
89.00	Point selected for the witness 1/16 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, 3½ ft. base, to top, with brass cap mkd. T19S R18E 1/16 S 2 | S 1 80 W C 1961 Cont. over top of rocky ridge.
89.90	North crest same ridge, bears NE. and SW.; desc. 200 ft. over ledges on NW. slope, covered with dense timber.
97.89	Intersect the N. bdy. of the township at point for cor. of secs. 1 and 2, which point is calculated to be 80.00 chs. westing from the closing cor. of Tps. 19 S., Rs. 18 and 19 E., previously described. 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 of post, with brass cap mkd. S 2 | S 1 T19S R18E 1961 from which The cor. of secs. 35 and 36, T. 18 S., R. 18 E. bears W., 14.57 chs. dist., and is monumented with an iron post, 2½ ins. diam., set, mkd. and witnessed as described in the field notes of the survey of said township, executed concurrently under this same survey group. Land, broken, mountainous. Soil, gravel, rocks and exposed sandstone. [illegible]r, juniper and pinon. [illegible] oak brush.

Survey, Portion of Subdivision, T. 19 S., R. 18 E.

Chains

The point for the N. ¼ sec. cor. of sec. 2 at midpoint on the N. bdy. of sec. 2 falls on inaccessible ledges facing NE., where cor. monument cannot be established.

From which

Point selected for witness ¼ sec. cor. of sec. 2, bears W., 0.90 chs. dist., where we

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

W
¼ S 2 C
T19S R18E
1961

Witness cor. is situated on a spur, sloping SE.

From this witness cor. the witness ¼ sec. cor. of sec. 35, T. 18 S., R. 18 E., bears W., 13.17 chs. dist., and is monumented with an iron post, 2½ ins. diam., set, mkd. and witnessed as described in the field notes of the survey of the S. bdy. of T. 18 S., R. 18 E., executed concurrently under this same survey group.

The tie between the true points for the above two ¼ sec. cors. is W., 14.57 chs. dist.

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

West, bet. secs. 16 and 21.

Over broken, mountainous land, through medium dense timber.

Asc. about 210 ft. over E. slope.

3.20 Top of vertical ledge, 40 ft. high, bears N. and S.

4.80 Road, unimproved, bears N. and S.

22.30 Spur, projects S.; desc. about 70 ft. over gentle W. slope.

28.00 Draw, drains S.; asc. about 320 ft. over 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., 6 ins. in the ground to bedrock and in a mound of stone, 3½ ft. base to top of post, with brass cap mkd.

T19S R18E
¼ S16/S21
1960

47.00 Spur, projects N.; desc. about 100 ft. along N. slope.

55.90 Top of vertical ledge, 30 ft. high, bears N. and S.; beginning of triangulation; desc. about 320 ft. over NE. slope.

72.00 Approximate dist. to head of draw, drains N. about 2.00 chs. then turns to W.; asc. about 80 ft. over NE. slope.

Portion of T. 19 S., R. 18 E.

Chains	
77.33	End of triangulation on rocky spur, projects N.; desc. about 30 ft. over NW. slope.
80.00	Point for the cor. of secs. 16, 17, 20 and 21.
	Set an iron post, 30 ins. long, 2½ ins. diam., 20 ins. in the ground and in a collar of stone to top of post, with brass cap mkd.
	T19S R18E S17 | S16 S20 | S21 1960
	Land, broken. Soil, rocky clay. Timber, medium dense pinon and juniper.
	N. 0° 03' W., bet. secs. 16 and 17.
	Over broken land, through medium dense timber.
	By triangulation; desc. about 100 ft. over N. slope.
8.00	Approximate dist. to draw, drains NW.; asc. about 100 ft. over S. slope.
18.00	Approximate dist. to spur, projects W.; desc. about 150 ft. over N. slope.
30.00	Approximate dist. to draw, drains SW.; asc. about 300 ft. over abrup S. slope.
33.00	Approximate dist. to top of vertical ledge, 30 ft. high, bears E. and W.
38.38	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., 8 ins. in the ground to bedrock and in a mound of stone, 3½ ft. base to top of post, with brass cap mkd.
	T19S R18E ¼ S17 | S16 1960
47.20	Top of vertical ledge, 50 ft. high, bears E. and W.
47.24	End of triangulation.
48.00	Edge of mesa top bears E. and W.
57.50	Desc. about 330 ft. over 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., 18 ins. in the ground and in a collar of stone to top of post, with brass cap mkd.

Chains	
	T19S R18E S8 | S9 S17 | S16 1960
	Land, broken. Soil, rocky sandy. Timber, dense pinon and juniper, scattered fir.
	From the cor. of secs. 9, 10, 15 and 16.
	S. 89° 56' W., bet. secs. 9 and 16.
	Over broken land, through dense timber; asc. about 30 ft. along N. slope.
8.40	Spur, projects N.; thence desc. about 50 ft. along N. slope.
16.20	Top of vertical ledge, 30 ft. high, bears N. and SW.; beginning of triangulation; desc. about 950 ft. over W. slope.
30.00	Approx. dist. to bottom of canyon, drains N.; asc. about 950 ft. over steep E. slope.
39.22	End of triangulation.
39.99	Point for the ¼ sec. cor. of secs. 9 and 16.
	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.
	T19S R18E ¼ S 9 S16 1960
47.10	Rocky spur, about 300 ft. above ¼ sec. cor.; projects S; beginning of triangulation; desc. about 250 ft. over W. slope.
53.00	Approx. dist. to head of draw, drains S.; asc. about 200 ft. over E. slope.
62.00	Approx. dist. to ridge, bears N. and S.; desc. about 300 ft. over W. slope.
79.98	The cor. of secs. 8, 9, 16 and 17.
	Land, broken. Soil, rocky sand, clay. Timber, dense pinon and juniper.
	From the cor. of secs. 16, 17, 20 and 21.
	S. 89° 53' W., bet. secs. 17 and 20.
	Over mountainous land, through dense timber.
	By triangulation; asc. about 180 ft. over steep E. slope.
13.00	Approx. dist. to where slope changes to N.; asc. about 40 ft. along N. slope.

Survey of a Portion of the Subdivision of T. 19 S., R. 18 E.

Chains	
16.49	End of triangulation.
18.30	Top of ascent; desc. about 140 ft. along N. slope.
25.03	The cor. of secs. 13, 17, 20 and 24, on the W. bdy. of the Tp., monumented with a 2½ in. iron post, set, mkd. and witnessed as described in the field notes of the survey of the E. bdy. of T. 19 S., R. 17 E. executed concurrently under this same group.
	Land, mountainous. Soil, rocky clay. 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 ins. iron post, set, mkd. and witnessed as described in the field notes of the N. bdy. of T. 20 S., R. 18 E.
	N. 0° 03' W., bet. secs. 32 and 33.
	Over broken, mountainous land, through dense timber; asc. about 20 f over S. slope.
1.80	Ridge, bears E. and W.; beginning of triangulation; desc. about 90 f over NW. slope.
14.00	Approx. dist. to where slope changes to N.; desc. about 100 ft. over NW. slope.
29.00	Approx. dist. to draw, drains W.; asc. about 60 ft. over SE. slope.
34.00	Approx. dist. to spur, projects SW.; desc. about 70 ft. over NW. slo
40.00	Point for the ¼ sec. cor. of secs. 32 and 33.
	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.
	T19S R18E ¼ S32 | S33 1960
42.60	Approx. dist. to draw, drains SW.; asc. about 110 ft. over SE. slope.
52.80	End of one triangulation on ridge, bears SW. and NE.; beginning of another triangulation; desc. about 300 ft. over N. slope.
70.50	Approx. dist. to bottom of canyon, drains W.; asc. about 150 ft. 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., 12 ins. in the ground to bedrock, in a mound of stone, 3½ ft. base to top, with brass cap mkd.
	T19S R18E S29 | S28 S32 | S33 1960
	Land, mountainous, broken. Soil, rocky, sand. Timber, dense pinon and juniper.

Survey of a Portion of the Subdivision of T. 19 S., R. 18 E.

Chains	
	West, bet. secs. 29 and 32.
	Over mountainous land, through dense timber; desc. about 30 ft. over NW. slope.
4.50	Bottom of descent; asc. about 70 ft. over E. slope.
25.17	The cor. of secs. 25, 29, 32 and 36, on the W. bdy. of the Tp., monumented with a 2½ ins. iron post, set, mkd. and witnessed as described in the field notes of the survey of the E. bdy. of T. 19 S., R. 17 E. executed concurrently under this same group.
	Land, mountainous. Soil, rocky sand. Timber, dense pinon and juniper.

General Description

T. 19 S., R. 18 E. is broken, mountainous land, varying in elevation from 6,000 to 8,500 feet above sea level. The north portion of the township is drained in a westerly direction by Rattle Snake Creek and the south portion is drained by Tusher Creek in a southwesterly direction.

There is a jeep trail following Tusher Creek in the southeast corner of the township and a jeep trail north from Tusher Creek to the south boundary of section 16. No water was noted in the area. The soil is sandy clay and rocky.

Timber in the area consists of dense pinon and juniper and scattered fir.

Chains

4-680
(Feb., 1950)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FIELD ASSISTANTS

NAMES	CAPACITY	
Rex J. Edwards	Transitman	1960
Gary T. Oviatt	Chainman	1960
Douglas G. Haycock	Chainman	1960
David J. Hickman	Flagman	1960
James M. Madson	Cornerman	1960
Wallace R. Ott	Transitman	1960
Gordon Shurtz	Chainman	1960
Gary Rutledge	Chainman	1960
Wayne Fisher	Flagman	1960
Parley Pratt	Cornerman	1960
William R. Savage	Transitman	1961
Rex J. Edwards	Chainman	1961
Morris E. Blackburn	Chainman	1961
Max Assay	Flagman	1961
Parley Pratt	Cornerman	1961

348

CERTIFICATE OF CADASTRAL ENGINEER

We ~~I~~, George D. Voorhees & Craig P. Sylvester, HEREBY CERTIFY upon honor that, [illegible] pursuance of special instructions bearing date of the 11th day of February, [illegible] we ~~I~~ have ~~surveyed~~ [illegible]rvised the survey of a [illegible]tion of [illegible] T. [illegible] R. [illegible]

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

Salt Lake City, Utah

August 17, 1961

Geo[illegible]. Voorhees
Cadastral Surveyor

Craig P. Sylveste[illegible], Cadastral [illegible]

CERTIFICATE OF APPROVAL

BUREAU OF LAND MANAGEMENT,

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

The foregoing field notes of the survey of a por[illegible] o[illegible] of the subdivision of T. [illegible] S. R. [illegible]

executed by [illegible] Chappel, Cadastral Surveyor, under the supervision of George D. Voorhees and Craig Sylvester, Cadastral Surveyors, having been critically examined and found correct, are hereby approved.

Chi[illegible], [illegible]ivision [illegible]eeri[illegible]

I CERTIFY that the f[illegible] of the field notes of the above-described surveys in [illegible] 19[illegible] R. 18 E., SLM, Utah, is a true copy of [illegible] field notes.

Cadastral Engineering Staff [illegible]

U. S. GOVERNMENT PRINTING OFFICE 16—63565-3

4—879
(September 1948)

349

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

ORIGINAL

FIELD NOTES

OF THE

DEPENDENT RESURVEY OF THE WEST BOUNDARY

OF T. 19 S., R. 20 E.

WITH NEW CORNERS FOR THE EAST BOUNDARY

OF T. 19 S., R. 19 E.,

RETRACEMENT OF THE NORTH BOUNDARY OF T. 20 S., R. 19 E.

AND

SURVEY OF A PORTION OF THE SUBDIVISIONAL LINES

OF T. 19 S., R. 19 E.

Of the Salt Lake *Meridian,*

In the State of Utah

EXECUTED BY

Glen B. Hatch, Cadastral Surveyor

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*

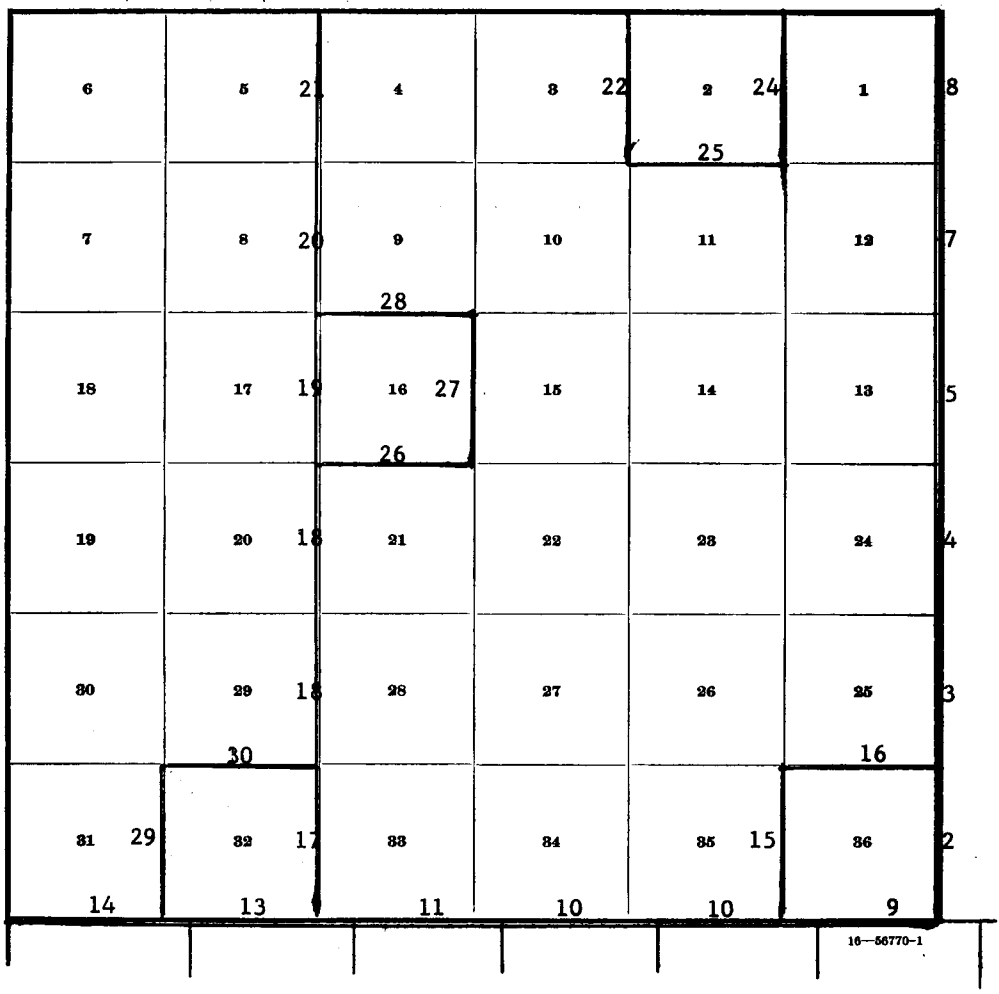
Survey commenced September 15, *1960*

Survey completed October 25, *1960*

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

INDEX DIAGRAM

Township 19 South, *Range* 19 East



Chains

The south boundary of T. 19 S., R. 19 E. was surveyed by Moore and Bandy in 1924. The west boundary of T. 19 S., R. 20 E. and the south boundary of T. 18 S., R. 19 E. were surveyed by A. J. Stewart Jr. in 1901.

The south boundary of T. 18 S., R. 19 E. was resurveyed concurrently under this same survey group and the east boundaries of Tps. 19 and 20 S., R. 18 E. were also surveyed concurrently under this same group.

The following field notes are those of the dependent resurvey of the west boundary of T. 19 S., R. 20 E. with the addition thereon of new corners for T. 19 S., R. 19 E., at distances of 40.00 and 80.00 chains northing from the southeast corner of section 36, T. 19 S., R. 19 E.

Also, retracement of the north boundary of T. 20 S., R. 19 E. altering certain corners thereon, referring to T. 19 S., R. 19 E. to now function as angle points only and adding certain new corners for said south boundary of T. 19 S., R. 19 E., at distances of 40.00 and 80.00 chains of westing, counting from the southeast corner of the township. Also, survey of a portion of the subdivisional lines of T. 19 S., R. 19 E. to the extent deemed sufficient 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 a W. & L. E. Gurley solar transit No. 580158 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 the 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 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. Distances to topography on lines run by traverse or triangulation are approximate, 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° 06' 03" N. and longitude 109° 45' 43.82" 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' East.

Dependent Resurvey of the West Boundary of T. 19 S., R. 20 E.

Chains

Dependent resurvey of the west boundary of T. 19 S., R. 20 E. and the establishment thereon of cors. pertaining to T. 19 S., R. 19 E., at latitudinal intervals of 40.00 chs. from the cor. of Tps. 19 S., Rs. 19 and 20 E.

Reestablishment of the survey executed by A. J. Stewart Jr. in 1901.

Beginning at the cor. of Tps. 19 S., Rs. 19 and 20 E., which is monumented with a 3 ins. iron post, set, mkd. and witnessed as described in the official record.

N. 0° 24' W., along the W. bdy. of sec. 31, T. 19 S., R. 20 E.

Over mountainous land, through dense timber; asc. about 10 ft. over SE. slope.

10.60 Top of ascent, bears NE. and SW.; desc. about 110 ft. over NE. slope.

40.00 Point for the ¼ sec. cor. of sec. 36, T. 19 S., R. 19 E.

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.

T19S
R19E R20E
¼
S36|
1960

42.52 Point for the ¼ sec. cor. of sec. 31, T. 19 S., R. 20 E., at proportionate dist.

Set an iron post, 30 ins. long, 2½ ins. diam., 12 ins. in the ground to bedrock, in a mound of stone, 3 ft. base to top, with brass cap mkd.

T19S
R19E R20E
¼
|S31
1960

Asc. about 70 ft. along E. slope.

53.40 Top of ascent, bears N. 15° E. and S. 15° W.; desc. about 90 ft. over NW. slope.

80.00 Point for the cor. of secs. 25 and 36, T. 19 S., R. 19 E.

Set an iron post, 30 ins. long, 2½ ins. diam., 12 ins. in the ground to bedrock, in a mound of stone, 3 ft. base to top, with brass cap

T19S
R19E R20E
S25|
S36|
1960

85.05 Point for the cor. of secs. 30 and 31, T. 19 S., R. 20 E., at proportionate dist. No remaining evidence of the original cor.

Set an iron post, 30 ins. long, 2½ ins. diam., 4 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 Boundary of T. 19 S., R. 20 E.

Chains	
	T19S R19E R20E S30 S31 1960 Land, mountainous. Soil, sandy loam, rocky. Timber, dense pinon, juniper and oak brush.
	N. 0° 24' W., along the W. bdy. of sec. 30.
	Desc. about 30 ft. along W. slope.
17.60	Ravine, drains W.; asc. about 70 ft. over S. slope.
24.60	Spur, projects S. 80° W.; desc. about 30 ft. over NW. slope.
29.10	Bottom of descent, drains SW.; asc. about 20 ft. over SE. slope.
30.70	Top of ascent, bears S. 80° W. and N. 80° E.; desc. about 80 ft. over steep NW. slope.
34.95	Point for the ¼ sec. cor. of sec. 25, T. 19 S., R. 19 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 of post, with brass cap mkd. T19S R19E R20E ¼ S25 1960
37.22	Point selected for the witness ¼ sec. cor. of sec. 30, T. 19 S., R. 20 E. Set an iron post, 30 ins. long, 2½ ins. diam., 12 ins. in the ground to bedrock, in a mound of stone, 3 ft. base to top, with brass cap mkd. T19S R19E R20E ¼ W C S30 1960 Beginning of triangulation; desc. about 180 ft. over steep and broken NW. slope.
42.52	True point for the ¼ sec. cor. of sec. 30, T. 19 S., R. 20 E. falls on broken ledge where cor. cannot be established.
44.00	Approx. dist. to bottom of ravine, drains W.; asc. about 170 ft. over broken S. slope.
48.00	Approx. dist. to point of spur, projects W.; desc. about 360 ft. over steep, broken N. slope.
59.30	Approx. dist. to bottom of canyon, drains S. 60° W.; asc. about 400 ft. over broken SE. slope.
73.90	Spur, projects S. 50° W.; desc. about 190 ft. over NW. slope.
74.92	End of triangulation.

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Chains	
74.95	Point for the cor. of secs. 24 and 25, T. 19 S., R. 19 E.
	Set an iron post, 30 ins. long, 2½ ins. diam., 16 ins. in the ground in a mound of stone, 2 ft. base to top, with brass cap mkd.
	T19S R19E R20E S24 S25 1960
85.05	Point for the cor. of secs. 19 and 30, T. 19 S., R. 20 E., at proportionate dist. No remaining evidence of the original cor.
	Set an iron post, 30 ins. long, 2½ ins. diam., 12 ins. in the [illegible] to bedrock, in a mound of stone, 3 ft. base to top, with brass cap mkd.
	R19E R20E S19 S30 1960
	Land, mountainous, broken. Soil, sandy loam, rocky. Timber, dense pinon and juniper, scattered pine.
	N. 0° 24' W., along the W. bdy. of sec. 19.
	Over broken, mountainous land, through dense timber.
	By triangulation; desc. about 150 ft. over NW. slope.
10.40	Approx. dist. to bottom of canyon, with stream of clear water, 1 lk. wide, 1 in. deep, drains S. 40° W.; asc. about 100 ft. over SE. sl.
17.99	End of one triangulation on spur, projects E.; beginning of another triangulation; desc. about 120 ft. over ledges and large boulders on NE. slope.
19.68	Point selected for the witness ¼ sec. cor. of sec. 24, T. 19 S., R. 19 E.
	Set an iron post, 30 ins. long, 2½ ins. diam., 10 ins. in the g[illegible] in a mound of stone, 3 ft. base to top of post, with brass cap mkd.
	T19S T19E R20E ¼ W C S24 1960
29.90	True point for the ¼ sec. cor. of sec. 24 falls on ledge where cor. cannot be established.
35.30	Approx. dist. to ravine, drains S. 70° E.; asc. about 200 ft. over SW. slope.

355

Dependent Resurvey of the West Boundary of T. 19 S., R. 20 E.

Chains	
42.52	The true point for the ¼ sec. cor. of sec. 19, at proportionate dist.; falls on ledge, 30 ft. high, where cor. cannot be established.
50.03	Point selected for the witness ¼ sec. cor. of sec. 19, T. 19 S., R. 20 E.
	Set an iron post, 30 ins. long, 2½ ins. diam., 15 ins. in the ground, in a mound of stone, 3 ft. base to top, with brass cap mkd.
	T19S R19E R20E ¼ S19 W C 1960
	Set on edge of sloping ledge, 50 ft. high, bears E. and S. 10° W.; cont. by triangulation.
55.50	Spur, projects S. 70° E.; desc. about 180 ft. over NE. slope.
58.60	Approx. dist. to head of ravine, drains S. 70° E.; asc. about 280 ft. over SW. slope.
67.50	End of one triangulation on ridge, bears S. 35° W. and N. 35° E.; beginning of another triangulation; desc. about 200 ft. over NW. slope.
69.90	Point for the cor. of secs. 13 and 24, T. 19 S., R. 19 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.
	R19E R20E S13 S24 1960
85.05	Point for the cor. of secs. 18 and 19, T. 19 S., R. 20 E., at proportionate dist. No remaining evidence of the original cor.
	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.
	T19S R19E R20E S18 S19 1960
	Land, mountainous, broken. Soil, sandy loam, rocky. Timber, dense pinon and juniper and oak brush.
	N. 0° 24' W., along the W. bdy. of sec. 18.
	Over mountainous land, through dense oak and scattered timber.
2.50	Approx. dist. to ravine, drains S. 40° W.; asc. about 850 ft. over SE. slope.
24.85	Point for the ¼ sec. cor. of sec. 13, T. 19 S., R. 19 E.
	Set an iron post, 30 ins. long, 2½ ins. diam., 4 ins. in the ground to bedrock, in a mound of stone, 3 ft. base to top, with brass cap mkd.

Chains	
	T19S R19E R20E ¼ S13| 1960
38.71	End of one triangulation on ridge, bears S. 80° W. and N. 80° E.; beginning of another triangulation; desc. about 500 ft. over NW. slope.
42.52	Point for the ¼ sec. cor. of sec. 18, T. 19 S., R. 20 E., at proportionate dist. Set an iron post, 30 ins. long, 2½ ins. diam., 24 ins. in the ground with brass cap mkd. T19S R19E R20E ¼ |S18 1960
53.60	Approx. dist. to ravine, drains S. 80° W.; asc. about 590 ft. over steep, broken SE. slope.
64.85	True point for the cor. of secs. 12 and 13 falls on broken ledge where cor. cannot be established.
69.10	Point selected for the witness cor. of secs. 12 and 13, T. 19 S., R. 19 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. T19S R19E R20E S12| S13↓ W C 1960
70.45	End of triangulation on ridge, bears S. 60° W. and N. 60° E.; desc. about 290 ft. over NW. slope.
85.05	Point for the cor. of secs. 7 and 18, T. 19 S., R. 20 E., at proportionate dist. Set an iron post, 30 ins. long, 2½ ins. diam., 6 ins. in the ground to bedrock, in a mound of stone, 3 ft. base to top, with brass cap mkd. T19S R19E R20E |S 7 |S18 1960

Land, mountainous.
Soil, gravelly loam, rocky.
Timber, dense oak, scattered pinon and juniper and pine.

Resurvey of the West Boundary of T. 19 S. R. 20 E.

Chains	
	N. 0° 24' W., along the W. bdy. of sec. 7.
	Over mountainous land, through scattered timber.
	By triangulation, desc. about 50 ft. over NW. slope.
6.60	Approximate dist. to ravine, drains S. 65° W.; thence asc. about 760 ft. over SE. slope.
19.80	Point for the ¼ sec. cor. of sec. 12, T. 19 S., R. 19 E., 200 ft. below top of ascent.
	Set an iron post, 30 ins. long, 2½ ins. diam., 6 ins. in the ground to bedrock, in a mound of stone, 3 ft. base to top, with brass cap mkd.
	T19S R19E R20E ¼ S12 1960
28.48	End of one triangulation on ridge, bears S. 70° W. and N. 70° E.; beginning of another triangulation; desc. about 30 ft. over NE. slope.
35.00	Approximate dist. to ravine, drains S. 45° W.; asc. about 160 ft. over SE. slope.
42.52	Point for the ¼ sec. cor. of sec. 7, T. 19 S., R. 20 E., at proportionate dist.
	Set an iron post, 30 ins. long, 2½ ins. diam., 24 ins. in the ground, with brass cap mkd.
	T19S R19E R20E ¼ S7 1960
49.90	Ridge, bears S. 35° W. and N. 35° E.; end of triangulation.
59.80	Point for the cor. of secs. 1 and 12, T. 19 S., R. 19 E., 160 ft. below ridge.
	Set an iron post, 30 ins. long, 2½ ins. diam., 24 ins. in the ground, with brass cap mkd.
	T19S R19E R20E S 1 S12 1960
	Beginning of triangulation; desc. about 300 ft. over NW. slope.
79.00	Approximate dist. to spur, projects N. 50° W.; desc. about 70 ft. over NW. slope.
82.80	Approx. dist. to bottom of descent, drains SW.; asc. about 200 ft. over SE. slope.
85.05	True point for the cor. of secs. 6 and 7, T. 19 S., R. 20 E., falls on broken ledge where monument cannot be established.
	Land, mountainous. Soil, gravelly loam. Timber, pinon, juniper, aspen, pine and spruce with dense oak underbrush.
	N. 0° 24' W., along the W. bdy. of sec. 6.
	Beginning of triangulation; asc. about 1290 ft. over broken SE. slope, over steep mountainous land, through medium growth of timber.
8.74	Point selected for the witness cor. of secs. 6 and 7, T. 19 S., R. 20 E.
	Set an iron post, 30 ins. long, 2½ ins. diam., 24 ins. in the ground, with brass cap mkd.
	T19S R19E R20E S6 S7 W C 1960

358

Resurvey of the West T. 19 R. E.

Chains	
14.75	True point for the ¼ sec. cor. of sec. 1 falls on ledge where cor. cannot be established.
14.92	Point selected for the witness ¼ sec. cor. of sec. 1, T. 19 S., R. 19 E., on top of ledge, 100 ft. high, bears E. and W. 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. T19S R19E R20E ¼ S1 W C 1960
34.75	Point for the N. 1/16 sec. cor. of sec. 1, T. 19 S., R. 19 E., only. Set an iron post, 30 ins. long, 2½ ins. diam., 15 ins. in the ground and in a mound of stone, 4 ft. base to top, with brass cap mkd. N1/16 S 1 1960
41.05	End of triangulation. Trail on divide bet. canyons, bears S. 35° E. and N. 10° W.
42.52	The original ¼ sec. cor. of secs. 1 and 6, monumented with a 4x10x16 ins., set, mkd. and witnessed as described in the official record and with a 2½ in. iron post of local origin. This cor. now functions as the ¼ sec. cor. of sec. 6, T. 19 S., R. 20 E. only. At the cor. point Set an iron post, 30 ins. long, 2½ ins. diam., 16 ins. in the in a mound of stone, 3 ft. base to top, with brass cap mkd. T19S R19E R20E ¼ S6 1960 Bury stone cor. and local iron post alongside in the mound of stone.
	N. 0° 24' W., beginning new measurement. Asc. about 10 ft. over gentle SE. slope.
3.30	Road, graded, bears N. 20° E. and N. 75° W.
11.20	Top of ascent, bears NE. and SW.; desc. about 100 ft. over gentle NW. slope.
12.23	Point for the 1/16 sec. cor. of sec. 1, T. 19 S., R. 19 E. Set an iron post, 30 ins. long, 2½ ins. diam., 24 ins. in the with brass cap mkd.

Chains	
	1/16 S1 80 1960
13.80	Enter dense aspen, bears NE. and SW.
19.955	Point for the N.1/16 cor. of sec. 6, not monumented.
27.30	Leave dense timber, bears N. 10° E. and S. 10° W.
28.30	Road, graded, bears N. 10° E. and S. 10° W.
39.91	The cor. of Tps. 18 and 19 S., Rs. 19 and 20 E., monumented with an iron post, 2½ ins. diam., set, mkd. and witnessed as described in the field notes of the resurvey of the S. bdy. of T. 18 S., R. 19 E., executed concurrently under this same group. Land, mountainous, broken. Soil, gravelly loam. Timber, scattered pinon, juniper, pine, oak brush and dense aspen N. ¼ mile.

Retracement of the North Boundary of T. 20 S., R. 19 E.

Retracement of the N. bdy. of T. 20 S., R. 19 E., altering certain cors. thereon referring to T. 19 S., R. 19 E. to now function as angle points only and adding certain new cors. for said S. bdy. of T. 19 S., R. 19 E., at distances of 40.00 and 80.00 chs. westing, counting from the SE. cor. of sec. 34.

Retracement of the survey executed by Moore and Bandy in 1924.

Beginning at the closing cor. of Tps. 20 S., Rs. 19 and 20 E., monumented with a 3 ins. iron post, set, mkd. and witnessed as described in the official record.

N. 89° 55' W., along the N. bdy. of sec. 1.

Over broken, mountainous land, through dense timber; asc. about 10 ft. over SE. slope.

8.53	The cor. of Tps. 19 S., Rs. 19 and 20 E., previously described.
14.50	Top of ascent, bears NE. and SW.; beginning of triangulation; desc. about 1,000 ft. over steep and broken NW. slope.
26.50	Approx. dist. to top of ledge, 50 ft. high, bears NE. and SW.
33.50	Approx. dist. to head of ravine, drains S. 85° W.; asc. about 120 ft. over gradual NE. slope.
40.00	The ¼ sec. cor. of sec. 1, monumented with a 1 in. iron post, set, mkd. and witnessed as described in the official record.
46.00	Spur, projects N. 10° W.; desc. about 30 ft. over SW. slope.
48.53	The ¼ sec. cor. of sec. 36, T. 19 S., R. 19 E., monumented with an iron post, 1 in. diam., set, mkd. and witnessed as described in the official record.
51.10	Ravine, drains N. 85° W.; asc. about 30 ft. over SE. slope.
55.15	End of one triangulation on spur, projects N. 15° W., beginning of another triangulation; desc. about 80 ft. over SW. slope.
58.50	Approx. dist. to canyon, drains S.; asc. about 620 ft. over steep, broken E. slope.

Retracement of the North Boundary of T. 20 S., R. 19 E.

Chains	
79.85	The cor. of secs. 1 and 2, T. 20 S., R. 19 E., monumented with a 2 ins. iron post, set, mkd. and witnessed as described in the officia record.
	Land, mountainous, broken. Soil, sandy loam. Timber, dense pinon, juniper and pine.
	West, along the N. bdy. of sec. 2; by triangulation.
3.30	End of one triangulation on rocky spur, projects S.; beginning of another; desc. about 280 ft. over abrupt W. slope.
4.00	Approx. dist. to top of ledge 80 ft. high, bears N. and S.
8.35	End of triangulation.
8.47	The cor. of secs. 35 and 36, T. 19 S., R. 19 E., monumented with a 2 ins. iron post, set, mkd. and witnessed as described in the offic record.
	Cont. by triangulation; desc. about 170 ft. over broken W. slope.
23.50	Approx. dist. to ravine, 50 ft. deep, drains S.; asc. about 190 ft. over broken E. slope.
38.50	Approx. dist. to spur, projects S.; desc. about 180 ft. over abrupt and broken SW. slope.
39.94	The ¼ sec. cor. of sec. 2, which is monumented with an iron post, 1 in. diam., set., mkd. and witnessed as described in the official record.
46.50	Approx. dist. to ravine, drains S. 20° E.; asc. about 550 ft. over steep, broken NE. slope.
48.47	The ¼ sec. cor. of sec. 35, T. 19 S., R. 19 E., monumented with an iron post, 1 in. diam., set, mkd. and witnessed as described in the official record.
64.60	End of one triangulation on ledge, 1.00 ch. wide, 60 ft. high, bear S. 10° E. and N. 10° W.; beginning of another triangulation; desc. about 720 ft. over abrupt, broken W. slope.
76.50	Approx. dist. to head of ravine, drains S. 80° W.
80.08	The cor. of secs. 2 and 3, monumented with a 2 in. iron post, set, mkd. and witnessed as described in the official record.
	Land, mountainous, broken. Soil, sandy loam, rocky. Timber, dense pinon and juniper, scattered pine and spruce.
	S. 89° 46' W., along the N. bdy. of sec. 3.
	Over mountainous land, through medium growth of timber.
8.53	The cor. of secs. 34 and 35, T. 19 S., R. 19 E., which is with an iron post, 2 ins. diam., set, mkd. and witnessed as describe in the official record.
8.75	Wash, 20 lks. wide, 2 ft. deep in bottom of ravine, drains S. 15° W. asc. about 300 ft. over SE. slope.

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

Chains	
30.00	End of one triangulation on spur projecting S. 15° W., beginning of another; desc. about 420 ft. over abrupt NW. slope.
39.64	The ¼ sec. cor. of sec. 3, which is monumented with an iron post, 1 in. diam., set, mkd. and witnessed as described in the official record.
48.17	End of triangulation and point for ¼ sec. cor. of sec. 34, which is monumented with an iron post, 1 in. diam., set, mkd. and witnessed as described in the official record. As this cor. now becomes an angle point only on the S. bdy. of sec. 34, it is remarked so that it now reads: AP ¼ S34 1924 1960
48.53	Point for the ¼ sec. cor. of sec. 34, at a point 40.00 chs. westing from the SE. cor. of said sec. 34. Set an iron post, 30 ins. long, 2½ ins. diam., 16 ins. in the ground, in a mound of stone, 2½ ft. base to top, with brass cap mkd. T19S R19E ¼ S34 1960 Beginning of triangulation; desc. about 190 ft. over NW. slope.
57.17	Saleratus Creek, in nearly dry water course, 40 lks. wide, 8 ft. deep, drains S.
57.41	End of one triangulation, beginning of another; asc. about 280 ft. over abrupt SE. slope.
68.03	End of triangulation on W. rim of Saleratus Creek Canyon, bears S. 5° W. and N. 5° E.; asc. about 100 ft. over gentle SE. slope.
79.12	The cor. of secs. 3 and 4, which is monumented with an iron post, 2 ins. diam., set, mkd. and witnessed as described in the official record. Land, mountainous and broken. Soil, sandy loam and rocky. Timber, dense pinon and juniper, scattered pine and spruce.

S. 89° 20' W., along the N. bdy. of sec. 4.

Asc. over gradual SE. slope.

.30	Ridge, bears NE. and SW.; desc. about 430 ft. over abrupt and broken NW. slope.
8.53	The cor. of secs. 33 and 34, which is monumented with an iron post, 2 ins. diam., set, mkd. and witnessed as described in the official record. As this point now becomes and angle point only, in the S. bdy. of sec. 34, it is remarked so that it now reads: A P T19S R19E S34 1924 1960
9.41	True point for the cor. of secs. 33 and 34, at 40.00 chs. westing from the ¼ sec. cor. of sec. 34 falls in wash where it is impractical to establish cor. monument.

Retracement of the North Boundary of T. 20 S., R. 19 E.

Chains	
9.88	Point selected for the witness cor. of secs. 33 and 34. 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. T19S R19E S33 | S34 W T20S C 1960 Cont. by triangulation over mountainous land, through dense timber; asc. about 80 ft. over NE. slope.
14.40	Approx. dist. to spur, projects S. 10° E.; desc. about 180 ft. over NE. slope.
39.91	The ¼ sec. cor. of sec. 4, which is monumented with an iron post, 1 in. diam., set, mkd. and witnessed as described in the official
	N. 89° 33' W., beginning new measurement.
8.53	The ¼ sec. cor. of sec. 33, which is monumented with an iron post, 1 in. diam., set, mkd. and witnessed as described in the official record. As this point now becomes an angle point only on the S. bdy. of sec. 33, it is remarked so that it now reads: A P S33 1924 1960
9.50	Point for the ¼ sec. cor. of sec. 33, at 40.00 chs. westing from the SE. cor. of said sec. 33. 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. T19S R19E ¼ S33 1960 Cont. by triangulation.
14.00	Approx. dist. to rocky point of spur, projects N. 75° E.
29.54	End of one triangulation on ridge 560 ft. above last ¼ sec. cor.; ridge bears N. and S.; beginning of another triangulation; desc. ab 250 ft. over W. slope.
39.50	Approx. dist. to ravine, drains S.; asc. about 30 ft. over steep E. slope to sec. cor.
39.96	The cor. of secs. 4 and 5 which is monumented with an iron post, 2 ins. diam., set, mkd. and witnessed as described in the official record. Land, mountainous and broken. Soil, sandy loam and rocky. Timber, medium growth of pinon and juniper.

Retracement of the North Boundary of T. 20 S., R. 19 E.

Chains	
	S. 89° 47' W., along the N. bdy. of sec. 5.
	By triangulation; asc. about 350 ft. over steep, broken E. slope.
8.40	The original witness cor. of secs. 32 and 33, which is monumented with an iron post, 2 ins. diam., set, mkd. and witnessed as described in the official record. This cor. will now function as the new witness cor. of secs. 32 and 33.
	Cont. by triangulation and desc. about 590 ft. over steep, broken W. slope.
8.53	True point for the original cor. of secs. 32 and 33, which was never monumented.
9.54	True point for the cor. of secs. 32 and 33, at 40.00 chs. westing from the ¼ sec. cor. of sec. 33 falls on precipitous W. slope in unsafe position for a cor. monument.
24.50	Approx. dist. to E. edge of sagebrush flat, bears NE. and SW.; leave steep hillside and desc. about 100 ft. over gradual W. slope.
31.50	Approx. dist. to wash, 30 lks. wide, 3 ft. deep, drains S. 20° E.; asc. about 120 ft. over abrupt SE. slope to the ¼ sec. cor. of sec. 5.
36.50	Approx. dist. to W. edge of sagebrush flat, bears NE. and SW.; asc. about 120 ft. over abrupt SE. slope to the ¼ sec. cor. of sec. 5.
39.92	The ¼ sec. cor. of sec. 5, which is monumented with an iron post, 1 in. diam., set, mkd. and witnessed as described in the official record.
	N. 89° 47' W., beginning new measurement.
	Asc. about 330 ft. over abrupt SE. slope to high spur.
8.53	The original ¼ sec. cor. of sec. 32, which is monumented with an iron post, 1 in. diam., set, mkd. and witnessed as described in the official record. As this point now becomes an angle point only on the S. bdy. of sec. 32, it is remarked so that it now reads:
	A P S32 1924 1960
9.10	Sharp spur, projects S.; cont. by triangulation; desc. 100 ft. over W. slope.
9.53	Point selected for the witness ¼ sec. cor. of sec. 32.
	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.
	T19S R19E W ¼ S32 C T20S 1960
9.62	True point for the ¼ sec. cor. of sec. 32 falls on large boulder at a point where it is impossible to establish a cor. monument.
15.10	Approx. dist. to wash, 30 lks. wide, 4 ft. deep, drains S. 25° W.; asc. about 60 ft. over gradual SE. slope.
18.60	Approx. dist. to spur, projects S. 15° W.; desc. about 80 ft. over NW. slope.

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

Retracement of the North Boundary of T. 20 S., R. 19 E.

Chains	
24.60	Approx. dist. to wash, 35 lks. wide, 5 ft. deep, drains S. 15° W.
25.60	Approx. dist. to wash, 30 lks. wide, 6 ft. deep, drains S. 40° E.; asc. about 130 ft. over NE. slope.
39.77	The cor. of secs. 5 and 6, which is monumented with an iron post, 2 ins. diam., set, mkd. and witnessed as described in the official record.
	Land, mountainous and broken. Soil, sandy and rocky loam. Timber, pinon and juniper.
	S. 89° 55' W., on the N. bdy. of sec. 6.
	By triangulation.
5.00	End of triangulation on spur, projects S. 15° W.; desc. about 50 ft. over NW. slope.
8.53	The original cor. of secs. 31 and 32, which is monumented with an iron post, 2 ins. diam., set, mkd. and witnessed as described in the official record. As this point now becomes an angle point only on the S. bdy. of sec. 32, it is remarked so that it now reads: A P. T19S R19E S32 1924 1960
9.85	Point for the cor. of secs. 31 and 32, at 40.00 chs. westing from ¼ sec. cor. of sec. 32. Set an iron post, 30 ins. long, 2½ ins. diam., 8 ins. in the ground to solid rock, in a mound of stone, 3 ft. base to top, with brass mkd. T19S R19E S31 | S32 T20S 1960
	Beginning of triangulation; desc. about 200 ft. over rather gradual W. slope, through dense timber.
21.50	Approx. dist. to ravine, drains S. 30° E.; asc. about 180 ft. over NE. slope.
22.00	Approx. dist. to unimproved road, bears S. 80° W. and N. 80° E.
33.79	End of triangulation; ridge, bears S. 15° W. and N. 15° E.; desc. about 90 ft. over NW. slope.
39.63	The original ¼ sec. cor. of sec. 6, which is monumented with an iron post, 1 in. diam., set, mkd. and witnessed as described in the offic record.
	N. 89° 29' W., beginning new measurement.
2.70	Ravine, drains N. 10° E.; asc. about 40 ft. over SE. slope.
6.20	Spur, projects N.; desc. about 40 ft. over W. slope.
	The original ¼ sec. cor.

Retracement of the North Boundary of T. 20 S., R. 19 E.

Chains	
8.53	The original ¼ sec. cor. of sec. 31, which is an iron post, 1 in. diam., set, mkd, and witnessed as described in the official record. This cor. now functions as an angle point and is remarked to now read: A P S31 1924 1960
10.22	Point for the ¼ sec. cor. of sec. 31, at 40.00 chs. westing from the SE. cor. of sec. 31. 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. T19S R19E ¼ S31 T20S 1960
11.53	Ravine, 70 ft. below ¼ sec. cor., drains N.; asc. about 40 ft. over W. slope.
14.93	Spur, projects N. 10° E.; desc. about 280 ft. over NW. slope; leave timber, bears NE. and SW.
26.43	Road, unimproved, bears N. 80° W. and S. 80° E.
38.03	Wash, 40 lks. wide, 6 ft. deep, drains S. 70° W.
39.38	The cor. of Tps. 19 and 20 S., R. 19 E., monumented with a 3 ins. iron post, set, mkd. and witnessed as described in the field notes of the dependent resurvey of a portion of the W. bdy. of T. 20 S., R. 19 E., executed concurrently under this same group. Land, mountainous. Soil, sandy loam. Timber, dense pinon and juniper E. 50.00 chs., scattered W. 20.00 chs.

Survey of a Portion of the Subdivision of T. 19 S., R. 19 E.

	From the cor. of secs. 35 and 36, on the S. bdy. of the Tp. North, bet. secs. 35 and 36, on a Sectional Guide Meridian. Over broken, mountainous land, through dense timber. By triangulation; asc. about 170 ft. over abrupt SW. slope.
4.19	End of one triangulation on top of narrow ledge, 100 ft. high, 20 lks. wide, projects W. about 30 lks.; beginning of another triangulation; desc. about 150 ft. over abrupt N. slope.
5.00	Approx. dist. to foot of ledge; asc. about 30 ft. along W. slope.
20.80	Approx. dist. to ledge, 20 ft. high, bears N. and S.; asc. about 40 ft. along W. slope.
38.05	End of one triangulation on spur, projects W. about 4.00 chs. Point selected for the witness ¼ sec. cor. of secs. 35 and 36.

U. S. GOVERNMENT PRINTING OFFICE 16—26690-2

Chains	
	Set an iron post, 30 ins. long, 2½ ins. diam., 10 ins. in the ground to bedrock, in a mound of stone, 2½ ft. base to top, with brass cap mkd.
	T19S R19E ¼ W C S35 S36 1960
	Beginning of another triangulation; desc. about 150 ft. over broken NW. slope.
40.00	Point for the ¼ sec. cor. of secs. 35 and 36 falls on ledge where cor cannot be established.
45.60	Approx. dist. to ravine, drains S. 20° W.; asc. about 520 ft. over S. slope.
74.36	End of triangulation on point of spur, projects S.; asc. 30 ft. along spur.
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 to bedrock, in a mound of stone, 4 ft. base to top, with brass cap
	T19S R19E S26 S25 S35 S36 1960
	Land, mountainous, broken. Soil, rocky clay. Timber, dense pinon and juniper, scattered pine.
	From the cor. of secs. 25 and 26, on the E. bdy. of the Tp., monumen with a 2½ ins. iron post, previously described.
	N. 89° 55' W., bet. secs. 25 and 36.
	Over broken, mountainous land, through dense timber.
	By triangulation; desc. about 30 ft. over W. slope.
5.10	Approx. dist. to point of spur, projects W.; desc. about 670 ft. over abrupt W. slope.
24.10	Approx. dist. to bottom of canyon, drains S.; asc. about 680 ft. over abrupt E. slope.
39.08	Point for the ¼ sec. cor. of secs. 25 and 36 falls on inaccessible E. slope of canyon and is not monumented.
45.68	Point selected for the witness ¼ sec. cor. of secs. 25 and 36.
	Set an iron post, 30 ins. long, 2½ ins. diam., 12 ins. in the ground, in a mound of stone, 3 ft. base to top, with brass cap mkd.
	T19S R19E ¼ S25 W S36 C 1960
46.02	End of triangulation; asc. about 90 ft. over gentle E. slope.
59.30	Top of ascent, bears N. and S.; beginning of triangulation; desc.

Chains	
	210 ft. over steep, broken W. slope.
70.10	Approx. dist. to bottom of ravine, drains S.; asc. about 130 ft. over broken E. slope.
79.08	The cor. of secs. 25, 26, 35 and 36.
	Land, broken, mountainous. Soil, rocky clay. Timber, dense pinon and juniper, scattered pine.
	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 broken, mountainous land, through dense timber; asc. about 30 ft. along W. slope.
11.40	Top of ascent; beginning of triangulation; desc. about 80 ft. over broken NW. slope.
30.00	Approx. dist. to ravine, drains W.; asc. about 70 ft. over S. slope.
40.00	Point for the ¼ sec. cor. of secs. 32 and 33 falls on spur; projects NW.
	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. T19S R19E ¼ S32 | S33 1960
	Cont. by triangulation; desc. about 120 ft. over NE. slope.
55.70	Approx. dist. to head of ravine, drains E.; asc. about 40 ft. over SE. slope.
65.40	End of one triangulation on ridge, bears N. 85° E. and S. 85° W.; beginning of another triangulation; desc. about 280 ft. over broken N. slope.
79.00	Approx. dist. to bottom of canyon, with stream of clear water, 1 lk. wide, 1 in. deep, drains W. from N. 60° E.; asc. about 30 ft. over S. slope.
80.00	Point for the cor. of secs. 28, 29, 32 and 33; end of triangulation.
	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. T19S R19E S29 | S28 S32 | S33 1960
	Land, mountainous, broken. Soil, rocky. Timber, dense pinon and juniper, scattered pine.

Chains	
	N. 0° 03' W., bet. secs. 28 and 29.
	Over mountainous, broken land, through medium timber.
	By triangulation; asc. about 450 ft. over steep and broken SE. slope.
23.96	End of triangulation.
24.60	Rocky spur, projects S. 40° W.; beginning of triangulation; desc. about 170 ft. along W. slope.
40.00	Point for the ¼ sec. cor. of secs. 28 and 29.
	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.
	T19S R19E ¼ S29 | S28 1960
49.45	End of one triangulation, beginning of another; desc. about 430 ft. over NE. slope.
80.00	Point for the cor. of secs. 20, 21, 28 and 29.
	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.
	T19S R19E S20 | S21 S29 | S28 1960
	Land, mountainous. Soil, sandy loam, rocky. Timber, dense pinon and juniper.
	N. 0° 03' W., bet. secs. 20 and 21.
	Over mountainous land, through dense timber.
	By triangulation; desc. about 380 ft. over steep, broken NE. slope.
2.70	Approx. dist. to S. rim of canyon, bears N. 40° W. and S. 40° E.
18.20	Approx. dist. to bottom of canyon, drains N. 40° W.; asc. about 200 ft. over broken SW. slope.
33.40	Approx. dist. to N. rim of canyon; ledge, 40 ft. high bears N. 40° W. and S. 40° E.; asc. gentle SW. slope.
39.50	Approx. dist. to spur, projects W.
40.00	Point for the ¼ sec. cor. of secs. 20 and 21 falls on large boulder where cor. cannot be established.
41.45	End of triangulation.
41.50	Point selected for the witness ¼ sec. cor. of secs. 20 and 21.

Chains	
	Set an iron post, 30 ins. long, 2½ ins. diam., 4 ins. in the ground to bedrock, in a mound of stone, 3½ ft. base to top, with brass cap mkd. T19S R19E ¼ S20 | S21 W C 1960
	Beginning of another triangulation; desc. about 160 ft. over N. slope.
44.00	Approx. dist. to bottom of descent; cont. across bottom.
49.00	Approx. dist. to Tusher Creek, 70 lks. wide, 3 ft. deep, with jeep trail in wash, drains S. 50° W.; asc. abrupt and broken SE. slope.
59.00	Approx. dist. to top of ledge, 70 ft. high, bears S. 50° W.; and S. 80° E.; asc. about 20 ft. over gentle SE. slope.
80.00	Point for the cor. of secs. 16, 17, 20 and 21. Set an iron post, 30 ins. long, 2½ ins. diam., 4 ins. in the ground to bedrock, in a mound of stone, 3 ft. base to top, with brass cap mkd. T19S R19E S17 | S16 S20 | S21 1960 Land, mountainous. Soil, sandy loam, rocky. Timber, dense pinon and juniper.
	N. 0° 03' W., bet. secs. 16 and 17. Over mountainous land, through dense timber.
	By triangulation; asc. about 240 ft. over SE. slope.
20.85	End of one triangulation on spur, projects S. 30° W.; beginning of another; desc. about 100 ft. over NW. slope.
29.00	Approx. dist. to head of ravine, drains S. 45° W.; asc. about 120 ft. over broken SE. slope.
40.00	Point for the ¼ sec. cor. of secs. 16 and 17 falls on ledge where cor. cannot be established.
42.40	Approx. dist. to top of sloping ledge, 30 ft. high, and top of spur, projects S. 70° W.
42.86	End of one triangulation and point selected for the witness ¼ sec. cor. of secs. 16 and 17. 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. T19S R19E ¼ S17 | S16 W C 1960

Survey of a Portion of the Subdivision of T. 19 S., R. 19 E.

Chains	
	Beginning of another triangulation; desc. about 110 ft. over NW. s
54.20	Approx. dist. to ravine, drains S. 65° W.; asc. about 130 ft. over SE. slope.
61.69	End of one triangulation on ridge, bears E. and W.; beginning of another; desc. about 400 ft. over steep, broken N. slope.
75.00	Approx. dist. to bottom of canyon, drains W.; asc. abruptly about 110 ft. over S. slope.
78.85	End of triangulation on top of ledge, 75 ft. high, bears irregularly E. and W.
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 to bedrock, in a mound of stone, 3½ ft. base to top, with brass cap mkd.
	T19S R19E S8 | S9 S17 | S16 1960
	Land, mountainous, broken. Soil, sandy loam, rocky. Timber, dense pinon and juniper, scattered pine.
	N. 0° 03' W., bet. secs. 8 and 9.
	Over mountainous land, through dense timber.
	By triangulation; asc. about 100 ft. over SE. slope.
19.20	Approx. dist. to spur, projects S. 70° W.; asc. about 170 ft. over broken NW. slope.
32.20	Approx. dist. to ravine, drains S. 70° W.; asc. about 270 ft. over sandstone ledges and outcroppings on SE. slope.
40.00	Point for the ¼ sec. cor. of secs. 8 and 9 falls on broken ledges is not monumented.
45.00	Point selected for the witness ¼ sec. cor. of secs. 8 and 9.
	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.
	T19S R19E ¼ S8 | S9 W C 1960
45.53	End of triangulation.
46.96	Ridge, bears E. and W.; thence by triangulation; asc. about 180 ft. along E. slope.
67.46	End of triangulation on spur, projects S. 60° W.; thence desc. about 210 ft. over NW. slope.
80.00	Point for the cor. of secs. 4, 5, 8 and 9 falls in wash, 30 lks. wi 5 ft. deep, drains N. 80° W., where cor. cannot be permanently monumented.

U. S. GOVERNMENT PRINTING OFFICE 19—26520-2

Survey of a Portion of the Subdivision of T. , R. E.

Chains	
	Land, mountainous. Soil, sandy and rocky. Timber, dense pinon and juniper, scattered pine.
	N. 0° 03' W., bet. secs. 4 and 5.
.40	Point selected for the witness cor. of secs. 4, 5, 8 and 9.
	Set an iron post, 30 ins. long, 2½ ins. diam., 16 ins. in the ground in a mound of stone, 2 ft. base to top, with brass cap mkd. T19S R19E S5 | S4 S8 | S9 W C 1960
	Cont. by triangulation over broken, rough mountainous land, through dense timber; desc. about 170 ft. over gentle NW. slope.
4.70	Approx. dist. to bottom of canyon, drains S. 70° W.; asc. about 1,150 ft. over steep, broken ledges and sandstone outcropping on SE. slope.
40.00	Point for the ¼ sec. cor. of secs. 4 and 5 falls on inaccessible SE. slope and cannot be monumented.
53.20	End of triangulation on top of ledge, 50 ft. high, bears W. and N. 15° E.; point selected for the witness cor. of secs. 4 and 5.
	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. T19S R19E ¼ S5 | S4 W C 1960
	Asc. about 240 ft. over SE. slope.
74.40	Ridge, bears N. 15° E. and W.; desc. about 1,440 ft. over steep NW. slope to canyon.
80.00	Point for the 1/16 sec. cor. of secs. 4 and 5; 140 ft. below ridge.
	Set an iron post, 30 ins. long, 2½ ins. diam., 6 ins. in the ground to bedrock, in a mound of stone, 3 ft. base to top, with brass cap mkd. T19S R19E 1/16 S5 | S4 80 1960
100.00	Point for the 1/16 sec. cor. of secs. 4 and 5, 920 ft. below ridge.
	Set an iron post, 30 ins. long, 2½ ins. diam., 6 ins. in the ground to bedrock; in a mound of stone, 3 ft. base to top, with brass cap mkd. T19S R19E 1/16 S5 | S4 100 1960
111.00	Point selected for witness closing cor. of secs. 4 and 5.

Survey of a Portion of the Subdivision of T. 19 S., R. 19 E.

Chains

Set an iron post, 30 ins. long, 2½ ins. diam., 15 ins. in the in a mound of stone, 3 ft. base to top, with brass cap mkd.

T18S R19E
S33
W | C
S5 | S4
T19S
C C
1960

112.00 Deep canyon, drains W.; asc. about 100 ft. over precipitous S. sl

114.63 Intersect the S. bdy. of sec. 33, T. 18 S., R. 19 E., at true point for closing cor. of secs. 4 and 5, falls on sloping ledge 100 ft. high, where cor. monument cannot be established.

from which

The cor. of secs. 32 and 33, T. 18 S., R. 19 E., bears N. 88° 05' W., 4.98 chs. dist. It is monumented with an iron post, 2½ ins. diam., set, mkd. and witnessed as described in the field notes o the dependent resurvey of the S. bdy. of T. 18 S., R. 19 E. executed concurrently under this same group.

Land, rough, broken, mountainous.
Soil, rocky loam.
Timber, dense pinon and juniper and dense pine on NW. slopes.

At the calculated position for the closing cor. of secs. 2 and 3, T. 19 S., R. 19 E.

Set an iron post, 30 ins. long, 2½ ins. diam., 22 ins. in the gro in a mound of stone, 2 ft. base to top, with brass cap mkd.

S35
S3 | S2
C C
T19S R19E
1960

from which

The cor. of secs. 34 and 35, T. 18 S., R. 19 E., which is monumented with an iron post, 2½ ins. diam., set, mkd. and witnessed as described in the field notes of the dependent resurvey of the S. bdy. of T. 18 S., R. 19 E., executed concurrently under this same group, bears N. 89° 37' W., 4.23 chs. dist.

S. 0° 01' E., bet. secs. 2 and 3.

Asc. about 80 ft. along W. slope, over mountainous land, through dense oak brush and scattered groves of aspen.

8.00 Top of ascent, projects W.; beginning of triangulation; desc. about 110 ft. over SW. slope.

8.88 Point for the 1/16 sec. cor. of secs. 2 and 3.

Set an iron post, 30 ins. long, 2½ ins. diam., 24 ins. in the ground with brass cap mkd.

of a Portion of the Subdivision of T. 19 S., R. 19 E.

Chains	
	1/16 S3|S2 100 1960
15.00	Approx. dist. to ravine, drains W.; asc. about 220 ft. over NW. slope.
26.00	Approx. dist. to S. edge of aspen timber, bears E. and W.
27.19	End of triangulation.
28.88	Point for the 1/16 sec. cor. of secs. 2 and 3. Set an iron post, 30 ins. long, 2½ ins. diam., 24 ins. in the ground, with brass cap mkd. 1/16 S3|S2 80 1960 Beginning of triangulation; asc. about 80 ft. over NW. slope.
33.20	Top of ascent, bears S. 20° W. from N. 50° E.
33.24	End of one triangulation, beginning of another; desc. about 870 ft. over steep, broken, SE. slope.
50.00	Approx. dist. to ravine, drains S. 70° E.; asc. about 50 ft. over NE. slope.
65.72	End of triangulation and 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 ground to bedrock, in a mound of stone, 5 ft. base to top, with brass cap mkd. T19S R19E ¼ S3|S2 W C 1960
68.88	True point for the ¼ sec. cor. of secs. 2 and 3 falls on face of steep rock outcrop, where cor. monument cannot be established.
70.00	Approx. dist to spur, projects S. 70° E.; beginning of triangulation; desc. about 300 ft. over SW. slope.
90.00	Approx. dist. to ravine, drains S. 45° W.; asc. about 200 ft. over broken NW. slope.
106.22	End of triangulation.
106.60	Point selected for the witness cor. of secs. 2, 3, 10 and 11, on spur projecting W. 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. T19S R19E S3|S2 S10|S11 W C 1960
108.88	Point for the cor. of secs. 2, 3, 10 and 11, falls on broken ledge where cor. cannot be established.

U. S. GOVERNMENT PRINTING OFFICE 16—26820-2

Chains	
	Land, mountainous, broken.
	Soil, sandy, rocky.
	Timber, dense stands of aspen and dense oak brush N. 28.00 chs.; dense pinon and juniper S. 80.00 chs.
	At the calculated position for the closing cor. of secs. 1 and 2, T. 19 S., R. 19 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

S36
S2|S1
C C
T19S R19E
1960

from which

The cor. of secs. 35 and 36, T. 18 S., R. 19 E., which is monumented with an iron post, 2½ ins. diam., set, mkd. and witnessed as described in the field notes of the dependent resurvey of the S. bdy of T. 18 S., R. 19 E., executed concurrently under this same group, bears N. 89° 43' W., 4.09 chs. dist.

	South, bet. secs. 1 and 2, on Sectional Guide Meridian.
	Over broken, mountainous land, through dense aspen.
	Asc. about 90 ft. over N. slope.
3.10	Road, graded, bears N. 20° E. and S. 30° W.
8.28	Point for the 1/16 sec. cor. of secs. 1 and 2.
	Set an iron post, 30 ins. long, 2½ ins. diam., 24 ins. in the ground, with brass cap mkd.

1/16
S2|S1
100
1960

10.20	Road, graded, bears N. 80° E. and S. 80° W.
11.80	Top of ascent, bears E. and W.; desc. about 30 ft. over gentle S. slope; leave aspen, bears E. and W.
13.23	Top of ledge, 100 ft. high, bears NE. and SW.; beginning of triangulation; desc. about 900 ft. over abrupt, broken S. slope.
28.28	Point for the 1/16 sec. cor. of secs. 1 and 2 falls on inaccessible S. slope and is not monumented.
34.00	Approx. dist. to ravine, 40 ft. deep, drains S. 60° E.; asc. about 9 ft. over NE. slope.
39.70	Point selected for the witness 1/16 sec. cor. of secs. 1 and 2.
	Set an iron post, 30 ins. long, 2½ ins. diam., 22 ins. in the ground, with brass cap mkd.

Survey of a Portion of the Subdivision, T. 19 S., R. 19 E.

Chains	
	1/16 W C S2 | S1 80 1960
45.27	End of triangulation.
45.30	Top of ascent, projects E.; beginning of triangulation; desc. about 460 ft. over broken SE. slope.
56.00	Approx. dist. to ravine, drains S. 30° W.; asc. about 710 ft. over NW. slope.
68.28	Point for the ¼ sec. cor. of secs. 1 and 2, 260 ft. above ravine.
	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.
	T19S R19E ¼ S2 | S1 1960
86.41	End of triangulation on ridge, bears S. 15° E. and N. 10° E.
86.88	Beginning of triangulation; desc. about 280 ft. over SW. slope.
95.00	Approx. dist. to ravine, drains W.; asc. about 90 ft. over N. slope.
103.48	End of triangulation; desc. about 150 ft. over SW. slope.
108.28	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, in a mound of stone, 3 ft. base to top, with brass cap mkd.
	T19S R19E S2 | S1 S11 | S12 1960
	Land, mountainous, broken. Soil, sandy loam, rocky. Timber, dense aspen N. 1300 chs., medium dense pinon, juniper and oak brush S. 95.00 chs.
	N. 89° 53' W., bet. secs. 2 and 11.
	By triangulation, over broken mountainous land, through dense timber; desc. about 460 ft. over SW. slope.
20.40	Approx. dist. to ravine, drains S. 10° W.; asc. 480 ft. over abrupt, broken SE. slope.
39.99	Point for the ¼ sec. cor. of secs. 2 and 11 falls on ledge where cor. monument cannot be established.
41.10	Point selected for the witness ¼ sec. cor. of secs. 2 and 11.
	Set an iron post, 30 ins. long, 2½ ins. diam., 13 ins. in the ground to bedrock, in a mound of stone, 3 ft. base to top, with brass cap mkd.

Survey of a Portion of the Subdivision of T. 19 S., R. 19 E.

Chains	
	T19S R19E ¼ S 2 W S11 C 1960
41.43	End of triangulation.
42.80	Spur, projects S. 10° W. for about 10.00 chs.; beginning of triangulation; desc. about 420 ft. over NW. slope.
60.30	Approx. dist. to head of ravine, drains S. 75° W.; asc. about 100 ft over broken SW. slope.
72.79	End of triangulation; desc. about 30 ft. along S. slope.
79.98	True point for the cor. of secs. 2, 3, 10 and 11.
	from which
	The witness cor. of secs. 2, 3, 10 and 11 bears N. 0° 01' W., 2.28 chs. dist., previously described.
	Land, mountainous and broken. Soil, rocky loam. Timber, scattered pine, aspen and juniper. Undergrowth, dense oak brush.
	At the point for the N. ¼ sec. cor. of sec. 2, at midpoint bet. the NE. and NW. cors. of the sec.
	Set an iron post, 30 ins. long, 2½ ins. diam., 22 ins. in the ground in a mound of stone, 2 ft. base to top, with brass cap mkd.
	¼ S2 T19S R19E 1960
	from which
	The S. ¼ sec. cor. of secs. 35, T. 18 S., R. 19 E., which is monumented with an iron post, 2½ ins. diam., set, mkd. and witnessed as described in the field notes of the dependent resurvey of the S. bdy. of T. 18 S., R. 19 E., executed concurrently under this same survey group, bears N. 89° 37' W., 4.16 chs. dist.
	From the cor. of secs. 16, 17, 20 and 21.
	N. 89° 59' E., bet. secs. 16 and 21.
	Over broken, mountainous land, through dense timber.
	By triangulation; asc. about 50 ft. along S. slope.
12.20	Top of ascent, bears N. and S.; desc. about 230 ft. over SE. slope.
31.90	Approx. dist. to bottom of Tusher Creek, drains S. 50° W.; asc. about 260 ft. over abrupt NW. slope.
40.00	Point for the ¼ sec. cor. of secs. 16 and 21, falls on ledge, where cor. monument cannot be established.

Survey of a Portion of the Subdivision of T. 19 S., R. 19 E.

Chains	
42.00	Top of ledge, 30 ft. high, bears irregularly N. and S.
43.25	Point selected for the witness ¼ sec. cor. of secs. 16 and 21.
	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.
	T19S R19E ¼ W S16 C S21 1960
46.60	Cont. by triangulation; desc. about 60 ft. over NE. slope.
52.10	Approx. dist. to ravine, drains N.; asc. about 40 ft. over NW. slope.
55.10	Approx. dist. to spur, projects N.; desc. about 150 ft. along N. sl.
67.10	Approx. dist. to ravine, drains N. 35° W.; asc. about 230 ft. over SW. slope.
72.93	End of triangulation.
73.10	Spur, projects N. 10° W. for about 1.00 ch.; desc. about 50 ft. along N. slope.
76.91	Ledge, 30 ft. high, bears N. 80° E. and S. 80° W.; asc. abruptly 40 f
80.00	Point for the cor. of secs. 15, 16, 21 and 22.
	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.
	T19S R19E S16 | S15 S21 | S22 1960
	Land, mountainous, broken. Soil, sandy, rocky. Timber, dense pinon and juniper, scattered pine.

N. 0° 02' W., bet. secs. 15 and 16.

Over broken, mountainous land, through scattered timber.

By triangulation; desc. about 130 ft. over N. slope.

4.00	Approx. dist. to ravine, drains W.; asc. about 190 ft. over S. slope.
11.00	Approx. dist. to spur, projects W. for about 10.00 chs.; desc. about 270 ft. over NW. slope.
25.00	Approx. dist. to ravine, drains S. 60° W.; asc. about 1,170 ft. over steep, broken SE. slope.
37.88	End of one triangulation at base of ledge, bears NE. and SW.; point selected for the witness ¼ sec. cor. of secs. 15 and 16.
	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.

Survey of a Portion of the Subdivision of T. 19 S., R. 19 E.

Chains	
	T19S R19E ¼ W C S16 S15 1960
	Beginning of another triangulation; asc. over ledges 20 ft. to 40 ft. high.
40.00	True point for ¼ sec. cor. falls on ledge where cor. cannot be
48.70	End of one triangulation on ridge, bears S. 65° W. and N. 65° E.; beginning of another; desc. about 480 ft. over broken NW. slope.
60.70	Approx. dist. to ravine, drains S. 20° W.; asc. about 240 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., 12 ins. in the ground to bedrock, in a mound of stone, 2½ ft. base to top, with brass cap mkd.
	T19S R19E S 9 S10 S16 S15 1960
	Land, mountainous, broken. Soil, rocky. Timber, scattered pinon and juniper.
	N. 89° 58' W., bet. secs. 9 and 16.
	By triangulation; asc. about 400 ft. over broken ledges and sands outcroppings on steep E. slope.
9.00	Slope changes to S.; asc. about 90 ft. along same.
15.70	Spur, projects S.; end of one triangulation, beginning of another; desc. about 300 ft. over SW. slope.
22.00	Approx. dist. to ravine, drains S.; asc. about 100 ft. over SE. s
29.51	End of triangulation, beginning of another.
29.54	Point selected for the witness ¼ sec. cor. of secs. 9 and 16, on top of ledge, 60 ft. high, bears N. and S. 10° W.
	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.
	T19S R19E ¼ W S 9 C S16 1960
	Desc. about 790 ft. over broken ledges and sandstone outcroppings on NW. slope.
39.97	Point for the ¼ sec. cor. of secs. 9 and 16 falls in an inaccessible position on nearly vertical NW. slope.
65.00	Approx. dist. to bottom of canyon, drains S. 70° W.; asc. about 150 ft. over SE. slope.
79.94	The cor. of secs. 8, 9, 16 and 17.

Survey of a Portion of the Subdivision of T. 19 S., R. 19 E.

Chains	
	Land, broken, mountainous. Soil, rocky. Timber, scattered pinon, juniper and pine.
	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 mountainous land, through dense timber.
	Asc. about 50 ft. over SW. slope.
8.10	Road, unimproved, bears N. 80° W.
8.14	Top of ascent, bears N. 80° W. and S. 80° E.; beginning of triangulation; desc. about 80 ft. over NE. slope.
13.50	Approx. dist. to ravine, drains N. 45° W.; asc. about 60 ft. over SW. slope.
17.50	Approx. dist. to point of spur, projects W.; desc. about 160 ft. over NE. slope.
36.00	Approx. dist. to N. edge of timber, bears E. and W.; beginning of sagebrush flat.
40.00	Point for the ¼ sec. cor. of secs. 31 and 32.
	Set an iron post, 30 ins. long, 2½ ins. diam., 22 ins. in the ground, in a flat mound of stone, 2½ ft. diam., with brass cap mkd. T19S R19E ¼ S31 | S32 1960
43.00	E. end of airstrip, bears W.
44.40	End of triangulation.
45.40	Enter dense timber, bears E. and W.
49.70	Spur, projects W.; desc. about 60 ft. over N. slope.
61.41	S. rim of canyon, bears E. and W.; beginning of triangulation; desc. about 380 ft. over broken N. slope.
70.00	Approx. dist. to bottom of canyon, drains W.; asc. about 260 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., 22 ins. in the ground, in a collar of stone, with brass cap mkd. T19S R19E S30 | S29 S31 | S32 1960
	Land, mountainous. Soil, gravelly loam. Timber, dense pinon and juniper.

Survey of a Portion of the Subdivision of T. 19 S., R. 19 E.

Chains	
	From the cor. of secs. 28, 29, 32 and 33.
	N. 89° 58' W., bet. secs. 29 and 32.
	Over mountainous land, through dense timber.
	By triangulation; asc. about 80 ft. over gentle SE. slope.
19.61	End of triangulation.
19.80	Spur, projects S. 50° W.; beginning of triangulation; desc. about 180 ft. over broken NW. slope.
30.00	Approx. dist. to ravine, drains S. 50° W.; asc. about 250 ft. over broken SE. slope.
39.98	True point for the ¼ sec. cor. of secs. 29 and 32, falls on steep sloping rock outcropping where cor. monument cannot be established.
45.30	End of one triangulation on top of ledge, 100 ft. high, bears N. 85 E. and S. 45° W. Point selected for the witness ¼ sec. cor. of secs 29 and 32.
	Set an iron post, 30 ins. long, 2½ ins. diam., on solid sandstone, in a mound of stone, 4½ ft. base to top of post, with brass cap mkd.
	T19S R19E ¼ S29 W S32 C 1960
	Beginning of another triangulation; desc. abrupt and broken SW. slo about 600 ft.
75.00	Approx. dist. to road, unimproved, bears N. 15° W. and S. 15° E.
79.96	The cor. of secs. 29, 30, 31 and 32.
	Land, mountainous E. ½, broken W. ½ mile. Soil, rocky. Timber, dense pinon and juniper E. ½ mile, scattered pinon and juni per W. ½ mile.

General Description

T. 19 S., R. 19 E. is located in the Book Cliffs and is a mountainous, broken land varying in elevation from 6,000 feet to 9,000 feet above sea level.

The area is drained in a southwesterly direction by numerous canyons and ravines.

There are several jeep trails in the township. One follows Tusher Creek, one is in the northwest corner of section 1 and there is one in sections 31 and 32 leading from the air strip to Tusher Creek. There is an old and little used air strip in section 31.

In section 20 in the bottom of Tusher Creek Canyon there is an old cabin and spring of good drinking water used by the ranchers in the area to water their livestock and another spring is located at the head of Tusher Creek. No other water was noted in the township.

The Uintah and Ouray Indian Reservation borders the township along the east boundaries of sections 1, 12 and 13 and along the north boundary of sections 1 and a portion of section 2.

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

Township 19 South, Range 13 East

Chains

Timber consists mostly of dense pinon and juniper with scattered pine in the northern part and dense aspen and oak brush in the northeast corner.

Soil is sandy loam and rocky with sandstone outcroppings.

There are two old abandoned mines in the township, one in the northeast ¼ of section 31 and one in Tusher Creek Canyon in the southwest ¼ of section 20.

U. S. GOVERNMENT PRINTING OFFICE, 16—25590-2

Township 17 South, Range 13 East

Chains		Chains
	Timber consists mostly of white pine, [illegible] pine in the [illegible] [illegible] east corner. Soil is [illegible] [illegible] There are [illegible] [illegible] east [illegible] [illegible] [illegible] [illegible] [illegible]	

4-680
(Feb., 1950)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FIELD ASSISTANTS

NAMES	CAPACITY
Glen B. Hatch	Crew Chief
Wallace R. Ott	Transitman
Gordon Shurtz	Flagman
Wayne Fisher	Chainman
Parley Pratt	Cornerman
Gary Rutledge	Chainman

CERTIFICATE OF CADASTRAL ENGINEER

I, George D. Voorhees, HEREBY CERTIFY upon honor that, [illegible] pursuance of special instructions bearing date of the 11th day of [illegible] I have ~~surveyed~~ [illegible] of the west [illegible] of T. 19 S. [illegible] 20 [illegible] wit[illegible] new corners for the east boundary of T. [illegible] S., R. 19 E. ret[illegible] of the north [illegible] of T. 20 S. R. 19 E. and s[illegible] of a portion of the subdivisional lines of T. 19 S., R. 19 E.,

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

Salt Lake City, Utah

August 23, 1961

George [illegible]. Voorhees

Cadastral [illegible]

CERTIFICATE OF APPROVAL

BUREAU OF LAND MANAGEMENT,

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

The foregoing field notes of the ~~survey of~~ [illegible] of [illegible] T. 19 [illegible] 20 [illegible] th new cors. for the E. bdv. of T. 19 S. R. 19 E. retracement of [illegible] N. [illegible] of T. 20 S., R. 19 E. and survey of a [illegible]rtion of the subdivisional lines [illegible] T. 19 S., R. [illegible] E., Salt Lake Meridian, Utah

executed by [illegible] Voorhees, Cadastral Surveyor

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

~~Cadastral Engineering Staff Officer.~~

Chief, Division of Engineer[illegible]

CERTIFICATE OF TRANSCRIPT

[illegible] R. 19 & 20 E., SLM, Utah, is a true copy of the original field notes.

Cadastral Engineering Staff Officer.

U. S. GOVERNMENT PRINTING OFFICE 16—58565-8

4—679
(September 1948)

385

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

ORIGINAL

FIELD NOTES

OF THE

DEPENDENT RESURVEY OF THE EAST BOUNDARY OF SECTIONS 25 AND 36,

INDEPENDENT RESURVEY OF THE S½ OF THE EAST BOUNDARY OF SECTION 24,

SURVEY OF THE N½ OF E. BDY. SEC. 24 AND E. BDY. SECS. 1, 12 AND 13,

TOWNSHIP 20 SOUTH, RANGE 16 EAST

WITH ESTABLISHMENT OF NEW CORNERS THEREON FOR W. BDY. OF T. 20 S., R. 17 E.,
(AT 40.00 AND 80.00 CHAIN INTERVALS),

DEPENDENT RESURVEY OF THE WEST BOUNDARY OF SECTION 2

AND SURVEY OF THE EAST AND SOUTH BOUNDARIES OF SECTION 2,

TOWNSHIP 20 SOUTH, RANGE 16 EAST

Of the Salt Lake *Meridian,*

In the State of Utah

EXECUTED BY

A. D. Griffin, Cadastral Surveyor

Under the supervision of George D. Voorhees, Cadastral Surveyor

Under special instructions dated February 11, *19*60, *which provided for the surveys included under Group No.* 399, *approved* February 23, 1960 *and assignment instructions dated* April 14 and July 1, *19*60

Survey commenced August 4, *19*60

Survey completed October 11, *19*60

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

INDEX DIAGRAM

Township 20 South, *Range* 16 East

6	5	4	3	9 2 11	10 1	8
7	8	9	10	11	12	7
18	17	16	15	14	13	6
19	20	21	22	23	24	5 4
30	29	28	27	26	25	3
31	32	33	34	35	36	2

16—56770-1

Chains

The south boundary (Fourth Standard Parallel South) of T. 20 S., R. 16 E. was originally surveyed by A. D. Ferron in 1881. This line was retraced and the east boundary of sections 25 and 36 and the S½ mile of the east boundary of section 24 and the subdivision of all sections except sections 1, 2, 11, 12, 13, N½ of 14 and 24 were surveyed by Lewis and Blossom, Deputy Surveyors, in 1898.

The west four miles of the north boundary were resurveyed and the east two miles surveyed by Robert C. Yundt, Cadastral Engineer, in 1941-42.

The following field notes are of the dependent resurvey of the east boundary of sections 25 and 36, independent resurvey of the S½ mile of the east boundary of section 24, survey of the N½ mile of the east boundary of section 24 and of the east boundary of sections 1, 12 and 13, T. 20 S., R. 16 E., with establishment thereon of new corners for the west boundary of T. 20 S., R. 17 E. at each 40.00 and 80.00 chain interval; dependent resurvey of the west boundary of section 2 and survey of the east and south boundaries of section 2, T. 20 S., R. 16 E.

These limited resurveys and surveys in T. 20 S., R. 16 E. are deemed sufficient in extent to facilitate the development of the natural resources and to mark the boundaries of those sections normally considered State school sections.

Before restoring corners of the older surveys, the lines were retraced and diligent search made for evidence of the original corners. The rules of proportionate measurement were applied to ascertain the position of lost corners after every reasonable possiblity of finding direct evidence of the corner monument ever having existed.

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. 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 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' 51.7" N. and longitude 110° 03' 50.1" W., as adjusted from traverses to U. S. G. S. triangulation stations within the area.

Chains

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

Dependent Resurvey, Portion of East Boundary, T. 20 S., R. 16 E.

Reestablishment of the survey executed by Lewis and Blossom in 1898.

Beginning at the standard cor. of Tps. 20 S., Rs. 16 and 17 E., monumented with a sandstone, 3x10x22 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., 24 ins. in the ground, with stone cor. buried alongside iron post, with brass cap mkd.

S C
T20S
R16E R18E
S36|S31
S 5
T21S R17E
1960

N. 0° 10' E., along the E. bdy. of sec. 36.

Over gently rolling desert land; asc. 50 ft.

40.00 Point for the ¼ sec. cor. of sec. 31, T. 20 S., R. 17 E.

Set an iron post, 30 ins. long, 2½ ins. diam., 24 ins. in the ground, with brass cap mkd.

T20S
R16E R17E
¼
S31
1960

44.00 The original ¼ sec. cor. of secs. 31 and 36, monumented with a sandstone, 8x10x18 ins., set, mkd. and witnessed as described in the of record. This cor. now functions for the ¼ sec. cor. of sec. 36, T. 20 S., R. 16 E. only.

At the cor. point

Set an iron post, 30 ins. long, 2½ ins. diam., 24 ins. in the ground, with stone cor. buried alongside iron post, with brass cap mkd.

T20S R17E
R16E
¼
S36
1960

North, beginning new measurement.

Asc. 50 ft. over gentle S. slope.

10.40 Top of ascent, bears E. and W.; desc. 30 ft. over N. slope.

34.60 Wash, 5 lks. wide, 1 ft. deep, drains S. 80° W.; thence asc. 10 ft. over gentle S. slope.

36.00 Point for the cor. of secs. 30 and 31, T. 20 S., R. 17 E.

Chains	
	Set an iron post, 30 ins. long, 2½ ins. diam., 24 ins. in the ground, with brass cap mkd.
	T20S R16E R17E S30 S31 1960
40.07	The original cor. of secs. 25, 30, 31 and 36, monumented with a sandstone, 6x8x20 ins., set, mkd. and witnessed as described in the official record. This cor. now functions for the cor. of secs. 25 and 36, T. 20 S., R. 16 E. only.
	At the cor. point
	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 R16E R17E S25 S36 1960
	Stone cor. buried alongside iron post.
	Land, gently rolling. Soil, clay. Timber, none.
	N. 0° 03' E., along the E. bdy. of sec. 25.
	Over rolling desert land.
17.60	Wash, drains S. 80° W.
28.20	Wash, drains S. 60° W.
35.80	Wash, drains S. 70° W.
35.93	Point for the ¼ sec. cor. of sec. 30, T. 20 S., R. 17 E.
	Set an iron post, 30 ins. long, 2½ ins. diam., 24 ins. in the ground, with brass cap mkd.
	T20S R16E R17E ¼ S30 1960
36.90	Wash, drains S. 40° W.
40.18	The original ¼ sec. cor. of secs. 25 and 30, monumented with a sandstone, 6x8x20 ins., set, mkd. and witnessed as described in the official record. This cor. now functions for the ¼ sec. cor. of sec. 25, T. 20 S., R. 16 E. only.
	At the cor. point
	Set an iron post, 30 ins. long, 2½ ins. diam., 12 ins. in the ground, in a mound of stone, 3 ft. base to top, with brass cap mkd.

Dependent Resurvey, E. Bdy. of Secs. 25 and 36, T. 20 S., R. 16 E.

Chains

T20S
R16E R17E
¼
S25
1960

Stone cor. buried alongside iron post.

N. 0° 12' W., beginning new measurement.

Asc. 340 ft. over broken SW. slope.

30.00 Spur, projects NW.; thence desc. 100 ft. over N. slope.

35.75 Point for the cor. of secs. 19 and 30, T. 20 S., R. 17 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.

T20S
R17E
S19
S30
1960

40.04 The original cor. of secs. 19, 30, 24 and 25, monumented with a sandstone, set, mkd. and witnessed as described in the official record. This cor. now functions for the cor. of secs. 24 and 25, T. 20 S., R. 16 E. 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.

T20S
R16E
S24
S25
1960

Stone cor. buried alongside iron post.

Land, gently rolling S. ½ mile, broken N. ½ mile.
Soil, sandy, rocky.
Timber, none.

Independent Resurvey, S½ Mile E. Bdy. of Sec. 24, T. 20 S., R. 16 E.

Superseding the survey executed by Lewis and Blossom in 1898.

From the cor. of secs. 24 and 25, described above.

N. 0° 05' W., along the E. bdy. of sec. 24.

Over broken land; thence by triangulation desc. about 240 ft. over NW. slope.

[illegible] over broken [illegible] slope.

[illegible] NW.; thence desc. 100 ft. over [illegible] slope.

[illegible] cor. of secs. 19 and 30, T. 20 S., R. 17 E.

Chains	
14.00	Approx. dist. to bottom of wash, drains NW.; thence asc. about 340 ft. over SW. slope.
22.20	The original witness ¼ sec. cor. of secs. 19 and 24, set, mkd. and witnessed as described in the official record. We destroy this cor.
	Asc. abruptly over ledge 80 ft. high, bears NW. and SE.
33.80	Point of mesa, bears NW. and SE.; desc. about 150 ft. over N. slope.
35.71	Point for the ¼ sec. cor. of sec. 19, T. 20 S., R. 17 E.
	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.
	T20S R17E ¼ S19 1960
40.00	Point for the ¼ sec. cor. of sec. 24; end of triangulation.
	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.
	T20S R16E ¼ S24 1960

Survey of a Portion of the East Boundary of T. 20 S., R. 16 E.

From the ¼ sec. cor. of sec. 24, described above.

N. 0° 05' W., along the N½ of the E. bdy. of sec. 24.

of

Chains	
	Desc. 100 ft. over gentle N. slope.
35.71	Point for the cor. of secs. 18 and 19, T. 20 S., R. 17 E.
	Set an iron post, 30 ins. long, 2½ ins. diam., over a cross (X) cut in solid sandstone, in a mound of stone, 4 ft. base to top, with cap mkd.
	T20S R17E |S18 S19 1960
37.60	S. rim of canyon, bears NE. and SW.; desc. 60 ft. over NW. slope.
40.00	Point for the cor. of secs. 13 and 24.
	Set an iron post, 30 ins. long, 2½ ins. diam., over a cross (X) cut in solid sandstone, in a mound of stone, 4 ft. base to top, with brass cap mkd.
	T20S R16E S13| S24| 1960
	Land, mountainous, broken. Soil, sandy, rocky. Timber, none S½; scattered pinon and juniper N½.

	N. 0° 05' W., along the E. bdy. of sec. 13.
	Over broken land, by triangulation, desc. about 400 ft. over broken N. slope.
25.00	Approx. dist. to bottom of canyon, drains NW.; thence asc. about 450 ft. over broken, ledgy SW. slope.
35.71	Point for the ¼ sec. cor. of sec. 18, T. 20 S., R. 17 E.
	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.
	T20S R17E |¼ |S18 1960
	Asc. abruptly over ledges.

Survey of a Portion of the East Boundary, T. 20 S., R. 16 E.

Chains	
40.00	Point for the ¼ sec. cor. of sec. 13 falls on inaccessible ledges and is not monumented.
47.30	Point selected for the witness ¼ sec. cor. of sec. 13; end of triangulation.
	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 R16E ¼ S13 W C 1960
48.00	Spur, projects W. about 10.00 chs.; thence by triangulation desc. about 400 ft. over broken N. slope.
65.00	Approx. dist. to bottom of canyon, drains W.; thence asc. about 180 ft. over S. slope.
75.71	Point for the cor. of secs. 7 and 18, T. 20 S., R. 17 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. T20S R17E S 7 S18 1960
79.00	Point selected for the witness cor. of secs. 12 and 13.
	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. T20S R16E W C S12 S13 1960
80.00	Point for the cor. of secs. 12 and 13 falls on vertical ledge where cor. cannot be monumented.
	Land, mountainous. Soil, sandy, rocky. Timber, none.
	N. 0° 05' W., along the E. bdy. of sec. 12.
	Over mountainous land, through scattered pinon and juniper.
	By triangulation, asc. about 30 ft. over gentle S. slope.
10.00	Approx. dist. to small spur, projects S. 80° E.; thence desc. about 50 ft. over NW. slope.
15.00	Approx. dist. to small draw, drains S. 80° E.; asc. about 60 ft. over N. slope.
18.00	Approx. dist. to where slope changes to SE.; asc. about 100 ft.
30.13	End of triangulation.

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

Chains	
31.50	Small spur, projects E.; desc. 30 ft. over N. slope.
35.71	Point for the ¼ sec. cor. of sec. 7, T. 20 S., R. 17 E. Set an iron post, 30 ins. long, 2½ ins. diam., 20 ins. in the ground, in a collar of stone to top, with brass cap mkd. T20S R17E ¼ S7 1960
40.00	Point for the ¼ sec. cor. of sec. 12. Set an iron post, 30 ins. long, 2½ ins. diam., 18 ins. in the ground, in a mound of stone, 3½ ft. base to top, with brass cap mkd. T20S R16E ¼ S12 1960
47.00	Wash, 10 lks. wide, 2 ft. deep, drains E. 1.00 ch.; thence SE.; asc. 100 ft. over S. slope.
61.50	Spur, projects E.; desc. 20 ft. over N. slope.
72.00	Draw, drains SE.; asc. 40 ft. over S. slope.
75.71	Point for the cor. of secs. 6 and 7 falls in unsafe position on large boulder.
76.18	Point selected for the witness cor. of secs. 6 and 7, T. 20 S., R. 17 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. T20S R17E S6 S7 W C 1960
80.00	Point for the cor. of secs. 1 and 12. 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. T20S R16E S1 S12 1960
	Land, mountainous. Soil, sandy, rocky. Timber, scattered pinon and juniper.
	N. 0° 05' W., along the E. bdy. of sec. 1.
	Over mountainous land, through scattered timber; by triangulation asc about 220 ft. over SE. slope.
20.00	Approx. dist. to spur, projects SE.

Survey of a Portion of the East Boundary, T. 20 S., R. 16 E.

Chains	
35.71	Point for the ¼ sec. cor. of sec. 6, T. 20 S., R. 17 E. 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. T20S R17E ¼ S 6 1960 Asc. abruptly 20 ft.
36.79	End of triangulation on rim of mesa, bears NE. and SW.; thence asc. 40 ft. over SE. slope; enter medium dense timber.
40.00	Point for the ¼ sec. cor. of sec. 1. Set an iron post, 30 ins. long, 2½ ins. diam., 20 ins. in the ground, in a collar of stone to top, with brass cap mkd. T20S R16E ¼ S 1 1960
41.60	Top of ascent, bears NW. and SE.; desc. 400 ft. over NE. slope.
81.16	The cor. of Tps. 19 and 20 S., Rs. 16 and 17 E., monumented with an iron post, 3 ins. diam., set, mkd. and witnessed as described in the official record. Land, mountainous. Soil, sandy, rocky. Timber, medium growth of pinon and juniper N½; scattered pinon and juniper S½.

Dependent Resurvey of the West Boundary of Sec. 2

	Reestablishment of the survey executed by Lewis and Blossom in 1898.
	From the cor. of secs. 2, 3, 34 and 35, on the N. bdy. of the Tp., monumented with a 1 in. iron post, set, mkd. and witnessed as described in the official record.
	S. 0° 02' E., bet. secs. 2 and 3.
	Over mountainous land.
	Asc. 600 ft. over abrupt N. slope.
5.50	N. rim of mesa, bears E. and W.
19.90	Top of ascent, bears E. and W.; thence desc. 140 ft. over S. slope.
33.70	S. rim of mesa, bears E. and W.; thence by triangulation; desc. about 200 ft. over broken S. slope.
39.34	Point for the ¼ sec. cor. of sec. 2 only falls in inaccessible place.
39.67	Point for the ¼ sec. cor. of sec. 3 only, at proportionate dist., falls in inaccessible place among broken cliffs.
53.04	The original witness ¼ sec. cor. of secs. 2 and 3, monumented with a sandstone, set, mkd. and witnessed as described in the official record.

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Dependent Resurvey of W. Bdy. of Sec. 2

Chains

This point functions as the witness cor. for the ¼ sec. cor. of sec. 2 and the ¼ sec. cor. of sec. 3. End of triangulation.

At the cor. point.

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 R16E
¼
W C
S 3 | S 2
1960

Stone cor. buried alongside iron post.

S. 0° 05' E., beginning new measurement.

Desc. 140 ft. over S. slope.

12.10 Wash, drains W.; thence asc. 170 ft. over N. slope.

26.30 The cor. of secs. 2, 3, 10 and 11, monumented with a sandstone, set, mkd. and witnessed as described in the official record.

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.

T20S R16E
S 3 | S 2
S10 | S11
1960

With the old cornerstone buried alongside the iron post.

Land, mountainous.
Soil, sandy clay, rocky.
Timber, none.

Survey of South and East Boundaries, Sec. 2

From the cor. of secs. 1, 2, 35 and 36 on the N. bdy. of the Tp., monumented with a 2 in. iron post, set, mkd. and witnessed as described in the official record.

South, bet. secs. 1 and 2.

Over mountainous land, through scattered pinon and juniper.

Asc. 160 ft. along E. slope.

16.10 Slope changes to steep and broken N. slope; asc. 230 ft.

25.30 Asc. 100 ft. over gentle N. slope.

36.10 Slope changes to NW. slope; asc. 40 ft.

39.53 Point for the ¼ sec. cor. of secs. 1 and 2.

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.

of the South and East Boundaries o

Chains	
	T20S R16E ¼ S2 | S1 1960
41.80	Spur, projects NE.; thence desc. about 360 ft. over steep S. slope, by triangulation.
51.00	Approx. dist. to top of ledge, 15 ft. high, bears E. and W.
62.10	Approx. dist. to draw, drains irregularly W.; thence asc, about 220 ft. over NW. slope.
68.10	Spur, projects W.; thence desc. about 150 ft. over SW. slope.
79.53	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, in a mound of stone, 4 ft. base to top, with brass cap mkd.
	T20S R16E S2 | S1 S11 | S12 1960
	Land, mountainous. Soil, sandy, rocky. Timber, scattered pinon and juniper.
	West, bet. secs. 2 and 11.
	Over broken land, through scattered timber; desc. about 80 ft. over SW. slope.
4.60	Draw, drains NW.; asc. about 40 ft. over E. slope.
8.10	Spur, projects N.; desc. about 70 ft. over W. slope.
10.00	Draw, drains N. about 5.00 chs., thence NW.; asc. about 130 ft. over E. slope.
16.30	Spur, projects N.; desc. about 60 ft. over W. slope.
27.00	Point selected for the witness ¼ sec. cor. of secs. 2 and 11.
	Set an iron post, 30 ins. long, 2½ ins. diam., over a cross (X) cut in solid sandstone, in a mound of stone, 4 ft. base to top, with brass cap mkd.
	T19S R18E W¼ S 2 C 11 1960
27.10	Top of ledge, 40 ft. high, bears NW. and SE., thence by triangulation; desc. about 260 ft. over abrupt SW. slope.
40.20	Point for the ¼ sec. cor. of secs. 2 and 11 falls on inaccessible and broken ledges and is not monumented.
44.40	Approx. dist. to draw, drains NW.; desc. about 100 ft. along broken N. slope.
61.40	Approx. dist. to wash, drains N.

Survey of the South and East Boundaries T. 20 S., R.

Chains	
70.40	Approx. dist. to wash, drains NW.
80.40	The cor. of secs. 2, 3, 10 and 11.
	Land, mountainous, broken.
	Soil, rocky.
	Timber, scattered pinon and juniper.

General Description

The east boundary and section 2 of T. 20 S., R. 16 E. is mostly broken, mountainous land located in the Book Cliffs northeast of Green River, Utah. The area varies in elevation from 3,500 to 6,000 feet above sea level.

The area is drained in a westerly direction by Tusher Creek and small side canyons draining into Tusher Creek. There was no water noted along the east boundary of section 2.

A jeep trail follows Tusher Creek east through sections 13, 14 and 15.

Timber consists of scattered pinon and juniper in the northeast portion of the township and no timber along the south 2½ miles of the east boundary.

Soil in the area is clay in the south and rocky, sandy in the north.

4-[illegible]
(Feb., [illegible])

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FIELD ASSISTANTS

NAMES	CAPACITY
A. B. Griffin	Crew Chief
Rex J. Edwards	Transitman
Douglas G. Haycock	Chainman
Gary T. Oviatt	Chainman
David Hickman	Flagman
Dale F. Keller	Cornerman

16 - [illegible] 2

400

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 the E. Bdy. of Secs. 25 and 36, independent resurvey of the S½ of the E. Bdy. of Sec. 24, survey of the N½ of the E. Bdy. of sec. 24 and the E. Bdy. of secs. 1, 12 and 13, T. 20 S., R. 16 E., with establishment of new corners thereon for the W. Bdy. of T. 20 S., R. 17 E., the dependent resurvey of the W. Bdy. of sec. 2 and survey of the E. and S. boundaries of sec. 2, T. 20 S., R. 16 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 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 2, 1961

Salt Lake City, Utah

George D. Voorhees
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~~ [illegible] 25 [illegible] independent resurvey S½ E. Bdy. of sec. 24, survey of N½ of E. Bdy. sec. 24 and E. [illegible] secs. 1, 12 and 13, T.20S, R. [illegible] with [illegible] of T. 20 S., R. 17 E., dependent resurvey of W. Bdy. of sec. 2 and survey of E. [illegible] and S. Bdy. of sec. 2, T. 20 S., R. 16 E., Salt Lake Meridian, Utah

executed by A. D. Griffin Cadastral [illegible]r [illegible] having been critically examined and found correct, are hereby approved.

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

I CERTIFY that the fo[illegible]pt 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—679
(September 1948)

401

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

ORIGINAL

FIELD NOTES

OF THE

DEPENDENT RESURVEY, SOUTH BOUNDARY (FOURTH STANDARD PARALLEL SOUTH),

DEPENDENT RESURVEY OF THE EAST BOUNDARY OF SECTION 36,

SURVEY OF NORTH FIVE MILES OF EAST BOUNDARY,

DEPENDENT RESURVEY OF WEST AND NORTH BOUNDARIES, SECS. 35 AND 36,

AND

SURVEY OF A PORTION OF THE SUBDIVISIONAL LINES

OF

TOWNSHIP 20 SOUTH, RANGE 17 EAST

Of the Salt Lake *Meridian,*

In the State of Utah

EXECUTED BY

Glen B. Hatch, Cadastral Surveyor

A. D. Griffin, Cadastral Surveyor

Under the supervision of George D. Voorhees, Cadastral Surveyor

Under special instructions dated February 11 *, 19*60*, which provided for the surveys included under Group No.* 399 *, approved* February 23, 1960 *and assignment instructions dated* April 14 and July 1 *, 19*60

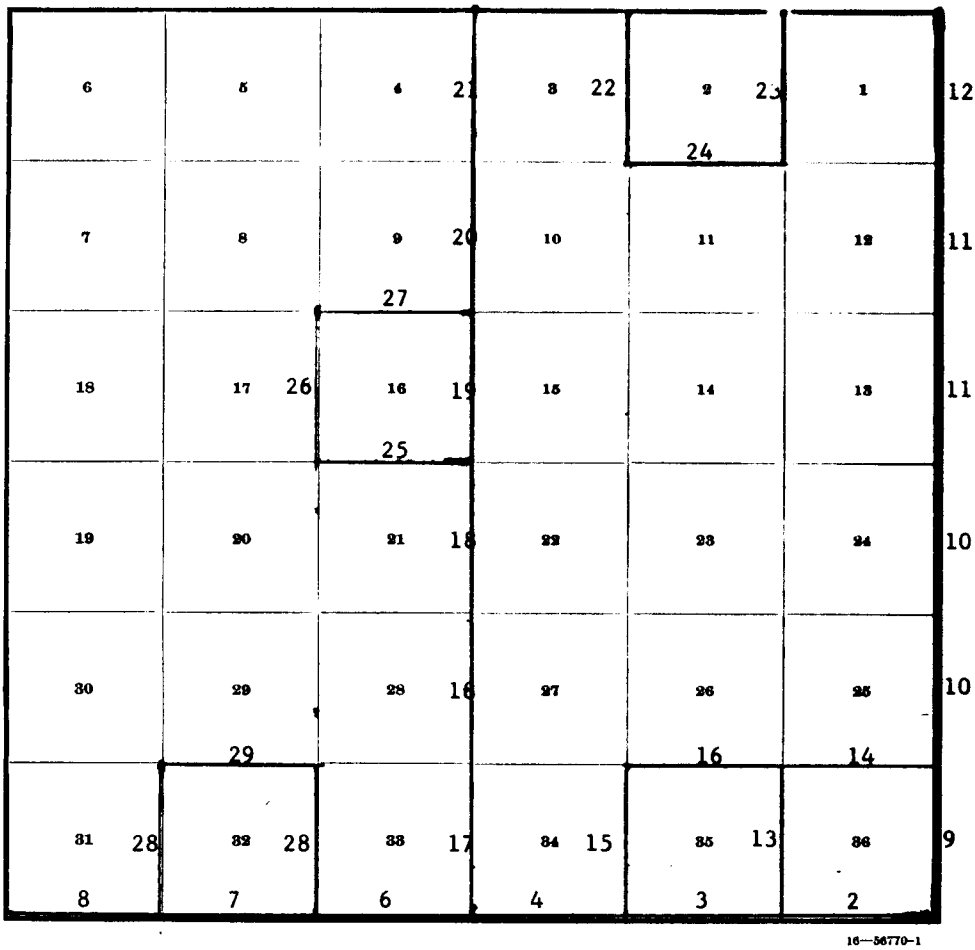
Survey commenced August 4 *, 19*60

Survey completed September 7 *, 19*60

U. S. GOVERNMENT PRINTING OFFICE 16 56770-1

INDEX DIAGRAM

Township 20 South, *Range* 17 East



Surveyed by Glen B. Hatch

Surveyed by A. D. Griffin

Township 20 South, Range 17 East

Chains

On the Fourth Standard Parallel South, along the south boundary of T. 20 S., R. 17 E., the west 1½ miles were originally surveyed by A. D. Ferron in 1881. In 1906 Heist and Woolley resurveyed this portion and extended the line east 1 mile. In 1907 J. T. Breckon completed the line eastward to the standard corner of Tps. 20 S., Rs. 17 and 18 E. In 1907 J. T. Breckon also surveyed the east boundary of section 36 and completed the subdivisional survey of sections 35 and 36.

The south 2½ miles of the east boundary of T. 20 S., R. 16 E. were originally surveyed by Lewis and Blossom in 1898. A. D. Griffin dependently resurveyed the south two miles of this boundary and independently resurveyed the S½ mile of the east boundary of section 24, and surveyed the north 3½ miles of this boundary concurrently with the present work under this same group, the field notes of which appear in the record of T. 20 S., R. 16 E.

The north boundary of T. 20 S., R. 17 E. was also surveyed by A. D. Griffin concurrently with the present work under this same survey group, the record of which appears in the field notes of T. 19 S., R. 17 E.

In the present work in T. 20 S., R, 17 E., A. D. Griffin surveyed the east, south and west boundaries of section 2; Glen B. Hatch dependently resurveyed the south boundary of the township, dependently resurveyed the south mile of the east boundary and surveyed the north five miles of the east boundary. Hatch also dependently resurveyed the west and north boundaries of sections 35 and 36 and surveyed portions of the subdivisional lines to the extent deemed sufficient to facilitate the development of the natural resources and mark the boundaries of those sections normally considered State school sections.

Before restoring lost corners the lines of the original survey were retraced and diligent search made for evidence of the original survey. The rules of proportionate measurement were applied to ascertain the position of lost corners only after every reasonable possibility of finding evidence of the original survey had been exhausted.

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 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 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 approximate. 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.

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Township 20 South, Range 17 East

Chains

The direction of the lines of this survey were determined by referenc 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° 01' 51.0" N. and longitude 109° 57' 05.2" W., as adjusted from traverses to U.S.G.S. triangulation station "Floy" located in the SE¼ of section 35, T. 20½ S., R. 18 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° 30' E.

Dependent Resurvey S.Bdy.(Fourth Standard Parallel South),T.20S.,R.17 .

Reestablishment of the survey executed by J. T. Breckon in 1907.

Beginning at the standard cor. of Tps. 20 S., Rs. 17 and 18 E., monumented with a sandstone, 4x8x20 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., 4 ins. in the ground, in a mound of stone, 4 ft. base to top, with brass cap mkd.

S C
T20S
R17E R18E
S36|S32
S32
T20½S R18E
1960

Bury stone cor. alongside iron post.

West, along S. bdy. of sec. 36.

Over mountainous land, through medium dense pinon and juniper.

Desc. about 270 ft. over NW. slope.

19.40 Ravine, drains S. 45° W.; asc. about 150 ft. over SE. slope.

34.00 Divide bet. Coal Canyon and Horse Canyon, bears N. from S. 80° W.; desc. about 80 ft. over NW. slope.

39.94 The standard ¼ sec. cor. of sec. 36, monumented with a sandstone, 4x8x20 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., 4 ins. in the ground, in a mound of stone, 3½ ft. base to top, with brass cap mkd.

Chains

SC
T20S R17E
¼ S36
T20½S R18E
1960

Bury stone cor. alongside iron post.

N. 89° 51' W., beginning new measurement.

Desc. about 140 ft. over series of small spurs on NW. slope.

27.50 Ravine, drains N. 10° W.; asc. about 180 ft. along N. slope.

40.80 Top of ascent; desc. about 10 ft. over W. slope.

42.73 The standard cor. of secs. 35 and 36, monumented with a sandstone, 6x12x18 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., 6 ins. in the ground, in a mound of stone, 3½ ft. base to top, with brass cap mkd.

SC
T20S R17E
S35 | S36
S31
T20½S R18E
1960

Bury stone cor. alongside iron post.

Land, mountainous.
Soil, sandy, shallow.
Timber, scattered pinon and juniper.

N. 89° 56' W., along the S. bdy. of sec. 35.

Over rough, mountainous land, through scattered pinon and juniper.

Asc. about 120 ft. over E. slope.

7.10 Top of ascent, bears N. and S.; beginning of triangulation, desc. about 800 ft. over ledges 10 ft. to 50 ft. high on steep W. slope.

36.50 Approximate dist. to ravine, drains S. 35° W.; asc. about 30 ft. over E. slope.

Chains	
37.84	End of triangulation.
40.03	The standard ¼ sec. cor. of sec. 35, monumented with a sandstone, 4x6x24 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., 8 ins. in the ground, in a mound of stone, 3½ ft. base to top, with brass cap mkd. SC T20S R17E ¼ S35 T20½S R18E 1960 Bury stone cor. alongside iron post.

	N. 89° 49' W., beginning new measurement.
4.10	Top of ascent, bears S. 30° E. about 2.00 chs.; desc. about 100 ft. over SW. slope.
20.35	The closing cor. of Tps. 20½ and 21 S., Rs. 17 and 18 E., monumented with a 3 in. iron post, set, mkd. and witnessed as described in the official record.
22.10	Desc. abruptly about 100 ft. over SW. slope.
25.60	Wash, 20 lks. wide, 1 ft. deep in bottom of small canyon, drains N. 70° W.; asc. abruptly about 100 ft. over NE. slope.
30.80	Top of ascent, bears NW. and SE.; desc. about 140 ft. over SW. slope.
40.15	Point for the standard cor. of secs. 34 and 35, at proportionate dist No remaining evidence of the original cor. 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. SC T20S R17E S34|S35 S 1 T21S 1960 Land, mountainous, rough. Soil, sandy, shallow. Timber, scattered pinon and juniper.

Dependent Resurvey, Fourth Standard Parallel South, T. 20 S., R. 17 E.

Chains	
	N. 89° 49' W., along the S. bdy. of sec. 34.
	Over mountainous land; through scattered pinon and juniper.
	Desc. about 30 ft. over NW. slope.
4.20	Bottom of descent; asc. about 30 ft. over SE. slope.
12.19	Top of ascent, projects S. 80° W.; by triangulation; desc. about 50 ft. over NW. slope.
13.70	Approx. dist. to top of ledge, 50 ft. high, bears NE. and SW.; desc. abruptly about 210 ft. over broken NW. slope.
22.30	Approx. dist. to wash, drains SW.; asc. about 100 ft. over SE. slope.
25.30	Approx. dist. to point of spur, projects SW.; desc. about 300 ft. over SW. slope.
40.15	Point for the standard ¼ sec. cor. of sec. 34, at proportionate dist.; no remaining evidence of the original cor.
	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 of post, with brass cap mkd. SC T20S R17E ¼ S34 T21S 1960
40.30	Wash, 15 lks. wide, 1 ft. deep, drains N. 45° W.; asc. abruptly about 50 ft. over NE. slope.
40.70	Spur, projects N. about 1.50 chs.; desc. abruptly about 50 ft. over NW. slope.
42.50	Wash, 15 lks. wide, 3 ft. deep, in bottom of canyon, drains NE.; asc. about 350 ft. over NE. slope.
60.14	The closing cor. of secs. 1 and 2, T. 21 S., R. 17 E., monumented with an iron post, 2 ins. diam., set, mkd. and witnessed as described in the official record.
	Asc. abruptly about 40 ft. over steep, broken NE. slope.
61.90	SW. rim of canyon, bears SE. and NW.; asc. about 60 ft. over gentle NE. slope.
80.30	The standard cor. of secs. 33 and 34, monumented with a sandstone, 6x10x15 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., on solid sandstone, in a mound of stone, 4 ft. base to top, with brass cap mkd. SC T20S R17E S33|S34 S 2 T21S 1960
	Bury stone cor. alongside iron post.
	Land, mountainous. Soil, sandy, rocky. Timber, scattered pinon and juniper.

Chains

N. 89° 48' W., along the S. bdy. of sec. 33.

Over broken land, through scattered pinon and juniper.

Asc. about 30 ft. over gentle NE. slope.

7.90 Top of ascent, bears irregularly N. and S.; thence by triangulation; desc. about 560 ft. over ledges on steep, broken W. slope.

20.12 Slope becomes gentle; end of triangulation; desc. about 90 ft. over SW. slope.

36.60 Wash, 1.00 ch. wide, 2½ ft. deep, drains S. 30° E. over rocky, rolling land.

40.37 The standard ¼ sec. cor. of sec. 33, monumented with a sandstone, 4x20x30 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., 10 ins. in the ground, in a mound of stone, 3 ft. base to top, with brass cap mkd.

SC
T20S R17E
¼ S33
T21S
1960

Bury stone cor. alongside iron post.

N. 89° 55' W., beginning new measurement.

Desc. about 20 ft. over rocky, rolling land.

19.81 The closing cor. of secs. 2 and 3, T. 21 S., R. 17 E., monumented wit a sandstone, 6x6x24 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., 24 ins. in the ground, with stone cor. buried alongside iron post, with brass cap mkd.

T20S R17E
S33
S3|S2
C C
T21S
1960

28.30 Wash, 10 lks. wide, 1 ft. deep, drains S.

40.12 The standard cor. of secs. 32 and 33, monumented with a sandstone, 4x8x24 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., 24 ins. in the ground, with stone cor. buried alongside iron post, with brass cap mkd.

SC
T20S R17E
S32|S33
S 3.
T21S

Dependent Resurvey, Fourth Standard Parallel South, T. 20 S., R. 17 E.

Chains

Land, broken, E. 20.00 chs.; rolling W. 60.00 chs.
Soil, sandy, rocky E. 20.00 chs.; clay, rocky W. 60.00 chs.
Timber, scattered pinon and juniper E. 20.00 chs.; none W. 60.00 chs.

N. 89° 55' W., along the S. bdy. of sec. 32.

Over rocky, rolling desert land.

Desc. about 160 ft. to ¼ sec. cor.

37.20 Wash, 5 lks. wide, 1 ft. deep, drains S. 10° W.

40.04 The standard ¼ sec. cor. of sec. 32, monumented with a sandstone, 6x12 x 18 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., 24 ins. in the ground, with stone cor. buried alongside iron post, with brass cap mkd.

SC
T20S R17E
¼ S32
T21S
1960

N. 89° 54' W., beginning new measurement.

2.80 Wash, 30 lks. wide, 1 ft. deep, drains S. 20° E.; desc. about 40 ft. to cor. of secs. 31 and 32.

19.85 The closing cor. of secs. 3 and 4, T. 21 S., R. 17 E., monumented with a wooden stake, 4x4 ins., 2 ft. above ground, set, mkd. and witnessed as described in the official record.

At the cor. point

Set an iron post, 30 ins. long, 2½ ins. diam., 24 ins. in the ground, with wooden stake buried alongside iron post, with brass cap mkd.

T20S R17E
S32
S4|S3
C C
T21S
1960

40.16 The standard cor. of secs. 31 and 32, monumented with a sandstone, 5x7x14 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., 24 ins. in the ground, with stone cor. buried alongside iron post, with brass cap mkd.

SC
T20S R17E
S31|S32
S 4
T21S
1960

Land, rocky, rolling.
Soil, sandy clay.
Timber, none.

Chains

N. 89° 58' W., along the S. bdy. of sec. 31.

Over rolling desert land.

20.52 The ¼ sec. cor. of sec. 4, T. 21 S., R. 17 E., monumented with a sand stone, 4x7x14 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., 24 ins. in the ground, with stone cor. buried alongside iron post, with brass cap mkd.

T20S R17E
¼ S4
T21S
1960

31.50 Wash, 30 lks. wide, 1 ft. deep, drains S.

40.13 The standard ¼ sec. cor. of sec. 31, monumented with a sandstone, 4x8 x18 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., 24 ins. in the ground, with stone cor. buried alongside iron post, with brass cap mkd.

SC
T20S R17E
¼ S31
T21S
1960

N. 89° 43' W., beginning new measurement.

1.14 Road, unimproved, bears S. 30° E. and N. 30° W.

12.34 Road, unimproved, bears S. 40° W. and N. 40° E.

19.78 Point for the closing cor. of secs. 4 and 5, T. 21 S., R. 17 E., at proportionate dist.; 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.

T20S R17E
S31
S5 | S4
C C
T21S
1960

40.14 The standard Tp. cor. of Tps. 20 S., Rs. 16 and 17 E., monumented wit a 2½ in. iron post, set, mkd. and witnessed as described in the field notes of the E. bdy. of T. 20 S., R. 16 E.

Land, rolling.
Soil, sandy clay.
Timber, none.

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Dependent Resurvey, Portion of East Boundary, T. 20 S., R. 17 E.

Chains	
	Reestablishment of the survey executed by J. T. Brecken in 1907.
	From the standard cor. of Tps. 20 S., Rs. 17 and 18 E., previously described.
	N. 0° 03' W., along the E. bdy. of sec. 36.
	Over mountainous land, through medium growth of pinon and juniper.
4.50	Desc. 100 ft. over NE. slope.
16.50	Bottom of descent, drains E.; thence asc. 50 ft. over gentle SE. slope.
40.07	The original ¼ sec. cor. of secs. 31 and 36, monumented with a sandstone, 4x6x13 ins., set, mkd. and witnessed as described in the official record. This cor. now functions for the ¼ sec. cor. of secs. 32 and 36.
	At the cor. point
	Set an iron post, 30 ins. long, 2½ ins. diam., 12 ins. in the ground, in a mound of stone, 3 ft. base to top, with brass cap mkd.

T20S
R17E R18E
¼
S36 | S32
1960

Bury stone cor. alongside iron post.

	N. 0° 03' W., beginning new measurement.
	Asc. 10 ft. over gentle SE. slope.
13.10	Top of ascent, projects E.; desc. 40 ft. over NE. slope.
35.50	Ravine, drains S. 15° E.; asc. 30 ft. along E. slope.
40.00	Same ravine, drains S. 10° W.
40.05	The original cor. of secs. 25, 30, 31 and 36, monumented with a sandstone, 4x8x16 ins., set, mkd. and witnessed as described in the official record. This cor. will now serve for secs. 25 and 36 only.
	At the cor. point
	Set an iron post, 30 ins. long, 2½ ins. diam., 15 ins. in the ground, in a mound of stone, 4 ft. base to top, with brass cap marked

T20S
R17E R18E
S25 | S29
S36 |
1960

Land, mountainous.
Soil, sandy loam, rocky.
Timber, medium growth of pinon and juniper.

Survey of Portion of the East Boundary of T. 20 S., R. 17 E.

From the cor. of secs. 25 & 36 previously described.

of Portion of East , T. 20 S. R. 17 E.

Chains	
	North, along the E. bdy. of sec. 25.
	Over mountainous land, through dense pinon and juniper.
	Asc. abruptly 90 ft. over S. slope.
2.50	Top of ledge, 50 ft. high, bears E. and W.; asc. 50 ft. over gentle S. slope.
12.50	Top of ascent, bears E. and W.; desc. 40 ft. over gentle N. slope.
18.10	Ravine, drains N. 80° E.; asc. 60 ft. over SE. slope.
37.30	Asc. abruptly over sandstone ledge.
37.90	Top of ledge, 60 ft. high, bears N. 75° E. and S. 75° W.; cont. over top of spur.
40.00	Point for the ¼ sec. cor. of secs. 25 and 29.
	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, with brass cap marked T20S R17E R18E ¼ S25 | S29 1960
48.30	Desc. 380 ft. over NE. slope.
64.00	Ravine, drains N. 5° E.; desc. along E. slope.
80.00	Point for the cor. of secs. 20, 24, 25 and 29.
	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 marked T20S R17E R18E S24 | S20 S25 | S29 1960
	Land, mountainous. Soil, sandy, rocky. Timber, dense pinon and juniper.

	North, along the E. bdy. of sec. 24.
	Over mountainous land, through medium growth of pinon and juniper.
	Desc. 110 ft. over NE. slope.
7.70	Ravine, drains N. 10° W.; asc. 80 ft. over SW. slope.
12.30	Top of ascent, projects W.; desc. 620 ft. over NW. slope.
40.00	Point for the ¼ sec. cor. of secs. 20 and 24.
	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 marked

of Portion of East [illegible] of T. 20 S., R. 17 E.

T20S
R17E R18E
¼
S24|S20
1960

Thence by triangulation.

46.00 Approx. dist. to bottom of canyon 150 ft. below ¼ cor., drains W., asc. about 850 ft. over steep S. slope.

77.06 End of triangulation on top of spur, projects N. 75° W. about 3.00 chs.; desc. 20 ft. over NE. slope.

80.00 Point for the cor. of secs. 13 and 24.

Set an iron post, 30 ins. long, 2½ ins. diam., 4 ins. in the ground in a mound of stone, 4½ ft. base to top, with brass cap marked [illegible]

T20S
R17E R18E
S13|S20
S24|
1960

Land, mountainous, steep.
Soil, sandy clay, rocky.
Timber, medium growth of pinon and juniper.

North, along the E. bdy. of sec. 13.

Over broken, mountainous land, through medium growth of pinon and juniper.

Desc. about 1,000 ft. over sandstone outcroppings and broken ledges on N. slope, by triangulation.

40.00 Point for the ¼ sec. cor. of secs. 13 and 17.

Set an iron post, 30 ins. long, 2½ ins. diam., 2 ins. in the ground, in a mound of stone, 4 ft. base to top, with brass cap marked [illegible]

T20S
R17E R18E
¼
S13|S17
1960

50.00 Approx. dist. to right fork of Tusher Creek, drains W.; asc. about 750 ft. over steep and broken S. slope.

80.00 Point for the cor. of secs. 8, 12, 13 & 17 falls on sloping ledge where cor. cannot be established.

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

North, along the E. bdy. of sec. 12.

Over mountainous land, through juniper and pinon.

Survey of Portion of East Boundary, T. 20 S., R. 17 E.

Chains	
2.45	End of triangulation on top of ledge 80 ft. high, bears irregularly E. and W.
3.20	Point selected for witness cor. of secs. 8, 12, 13 and 17.
	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 marked
	T20S R17E R18E S12 | S 8 S13 | S17 W C 1960
	Asc. about 250 ft. over sandstone outcroppings on S. slope, by triangulation.
20.92	End of triangulation; top of ascent, bears E. and W.; cont. over top through scattered timber.
31.10	Desc. 40 ft. over gentle NE. slope.
40.00	Point for the ¼ sec. cor. of secs. 8 and 12.
	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 marked
	T20S R17E R18E ¼ S12 | S 8 1960
	Desc. 120 ft. over NE. slope.
65.00	Ravine, drains N. 30° E.; asc. 10 ft. over SE. slope.
66.30	Top of ascent, projects NE.; desc. 140 ft. over NW. slope.
78.90	Point selected for the witness cor. of secs. 1, 5, 8 and 12.
	Set an iron post, 30 ins. long, 2½ ins. diam., on solid sandstone, in a mound of stone, 4½ ft. base to top, with brass cap mkd.
	T20S R17E R18E W C S1 \ S5 S12 | S 8 1960
79.00	Top of ledge 50 ft. high, bears irregularly E. and W.
80.00	Point for the cor. of secs. 1, 5, 8 and 12, falls in inaccessible ravine.
	Land, mountainous. Soil, sandy, shallow. Timber, scattered pinon and juniper.
	North, along the E. bdy. of sec. 1.
	Over mountainous land, through pinon and juniper.

Survey of Portion of East Boundary, T. 20 S., R. 17 E.

Chains	
1.00	Bottom of ravine, 3.00 chs. wide, 40 ft. deep, drains W.; asc. 50 ft. over S. slope.
8.60	Top of ascent, bears S. 80° E. and N. 80° W.; beginning of triangulation, desc. about 400 ft. over steep N. slope.
30.00	Approx. dist. to bottom of Tusher Creek Canyon; cont. across bottom.
35.01	End of triangulation.
36.00	Tusher Creek, 30 lks. wide, 2 ft. deep, drains W.; asc. about 50 ft. over steep and broken S. slope by triangulation.
40.00	Point for the ¼ sec.cor.of secs.1 & 5,50 ft.above Tusher Creek.
	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 marked
	T20S R17E R18E ¼ S1 | S5 1960
	Asc. about 1,000 ft. over steep S. slope.
72.63	End of triangulation.
75.90	Top of ascent, bears E. and W.; desc. 200 ft. over N. slope.
85.87	Point for the cor. of Tps. 19 and 20 S., Rs. 17 and 18 E., at a point 484.45 chs. E. of the cor. of Tps. 19 and 20 S., Rs. 16 and 17 E.
	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.
	T19S R17E R18E S36 | S32 S1 | S5 T20S 1960
	Land, mountainous, broken. Soil, sandy, with sandstone outcroppings. Timber, scattered pinon and juniper.

Dependent Resurvey of Portion of Subdivision of T. 20 S., R. 17 E.

	Reestablishment of the survey executed by J. T. Breckon in 1907.
	From the standard cor. of secs. 35 and 36, on the S. bdy. of the Tp., previously described.
	N. 0° 16' E., bet. secs. 35 and 36.
	Over broken, mountainous land, through scattered pinon and juniper.
	Desc. 950 ft. over NE. slope.
1.20	Head of ravine, drains N. 40° E.
17.50	Ravine, 30 ft. deep, drains E.
37.40	Ravine, 50 ft. deep, drains N. 80° E.
39.22	The ¼ sec. cor. of secs. 35 and 36, monumented with a sandstone, 4x12x18 ins., set, mkd. and witnessed as described in the official record.

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Chains	
	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.
	T20S R17E S35 | S36 1960
	Bury stone cor. alongside iron post.
	N. 0° 03' W., beginning new measurement.
	Cont. descent of NE. slope about 80 ft.
1.35	Old coal mine, bears N. 17° 50' W., about 9.00 chs. dist.
	Old coal mine, bears N. 31° 51' W. about 12.00 chs. dist.; beginning of triangulation.
10.00	Approx. dist. to Coal Canyon, drains W.; asc. about 50 ft. over SW. slope.
16.00	Approx. dist. to spur, projects W. about 4.00 chs.; desc. about 100 ft. over N. slope.
27.00	Approx. dist. to ravine, drains S. 70° W.; asc. about 150 ft. over SE. slope.
39.95	End of triangulation and cor. of secs. 25, 26, 35 and 36, monumented with a sandstone, 9x10x30 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., 10 ins. in the ground, in a mound of stone, 3½ ft. base to top, with brass cap mkd.
	T20S R17E S26 | S25 S35 | S36 1960
	Bury stone cor. alongside iron post.
	Land, mountainous, broken. Soil, sandy loam, rocky. Timber, scattered pinon and juniper.
	From the cor. of secs. 25 and 36, on the E. bdy. of the Tp., previously described.
	N. 89° 50' W., bet. secs. 25 and 36.
	Over mountainous land, through pinon and juniper; asc. 140 ft. over E. slope.
11.85	Divide between Coal Canyon and Horse Canyon, bears N. and S.; beginning of triangulation; desc. about 100 ft. over SW. slope.
25.35	Approx. dist. to ravine, drains S. 10° E.; asc. about 70 ft. over E. slope.
40.00	Approx. dist. to spur, projects S.; desc. about 50 ft. over W. slope.

Chains	
42.00	Approx. dist. to head of ravine, drains S.; asc. about 130 ft. over NE. slope.
43.45	The original ¼ sec. cor. of secs. 25 and 36, which is monumented with a sandstone, 3x10x15 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., 4 ins. in the ground to solid rock, in a mound of stone, 4 ft. base to top, with brass cap mkd.
	T20S R17E ¼ S25/S36 1960
	Bury the stone cor. alongside the iron post.
	S. 88° 51' W., beginning new measurement.
	Asc. 50 ft. over gradual NE. slope.
5.13	Top of ledge, 100 ft. high, bears N. 80° W. and S. 80° E.; beginning of triangulation; desc. about 750 ft. over broken SW. slope.
34.90	Approx. dist. to ravine about 30 ft. deep, drains S. 10° W.
38.90	The cor. of secs. 25, 26, 35 and 36.
	Land, mountainous and broken. Soil, sandy and rocky loam. Timber, scattered pinon and juniper.
	From the standard cor. of secs. 34 and 35, on the S. bdy. of the Tp., previously described.
	N. 0° 05' E., bet. secs. 34 and 35.
	Over mountainous desert land, by triangulation.
	Desc. about 100 ft. over series of small spurs projecting generally to the NE.
19.20	Approx. dist. to canyon, drains S. 50° W.; asc. about 300 ft. over SE. slope.
39.21	End of triangulation.
39.58	Point for the ¼ sec. cor. of secs. 34 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 to solid rock, in a mound of stone, 3 ft. base to top, with brass cap mkd.
	T20S R17E ¼ S34|S35 1960

Chains	
	Beginning of triangulation; asc. about 220 ft. over abrupt, broken ledges 30 to 50 ft. high, on a steep S. slope.
46.06	Narrow ridge, bears E. and W.; end of one triangulation, beginning of another; desc. about 400 ft. over steep and broken N. slope.
66.20	Approx. dist. to bottom of Coal Canyon, 40 lks. wide, 3 ft. deep, drains N. 70° W.; asc. about 150 ft. over SW. slope.
74.20	Approx. dist. to spur, projects W.; desc. about 50 ft. over NW. slope.
79.16	The cor. of secs. 26, 27, 34 and 35, which is monumented with a sandstone, 6x10x20 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., 6 ins. in the ground to solid rock, in a mound of stone, 3 ft. base to top, with brass cap mkd.
	T20S R17E S27 | S26 S34 | S35 1960
	Bury the old cornerstone alongside the iron post.
	Land, mountainous and broken. Soil, rocky clay. Timber, none.
	From the cor. of secs. 25, 26, 35 and 36.
	N. 89° 55' W., bet. secs. 26 and 35.
	Over mountainous, broken land, through juniper and pinon; by triangulation, asc. about 180 ft. over E. slope.
13.50	Rocky spur, projects S.; desc. about 200 ft. over steep W. slope.
25.00	Approx. dist. to bottom of ravine, drains S. 10° W.; asc. about 250 ft. over ledges and large loose boulders on steep, broken E. slope.
34.30	End of one triangulation, beginning of another; desc. about 190 ft. over steep, broken ledges on W. slope to ¼ sec. cor.
40.29	The original ¼ sec. cor. of secs. 26 and 35, which is monumented with a sandstone, 6x12x16 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., 6 ins. in the ground to solid rock, in a mound of stone, 3 ft. base to top, with brass cap mkd.
	T20S R17E ¼ S26 S35 1960
	Bury the stone cor. alongside the iron post.

Chains	
	S. 89° 53' W., beginning new measurement.
	By triangulation; desc. about 50 ft. over W. slope.
2.50	Approx. dist. to ravine, drains S.; asc. about 30 ft. over E. slope.
5.00	Approx. dist. to spur, projects S.; desc. about 50 ft. over W. slope.
25.00	Approx. dist. to bottom of ravine, drains S. 20° W.; asc. about 50 ft. over SE. slope.
27.74	End of triangulation; spur projects S. 20° W.; desc. 70 ft. over NW. slope.
32.37	Head of ravine, drains S. 30° W.; asc. 100 ft. along S. slope.
39.67	The cor. of secs. 26, 27, 34 and 35.
	Land, mountainous and broken. Soil, sandy and rocky loam. Timber, scattered juniper and pinon.

Survey of Portion of the Subdivision, T. 20 S., R. 17 E.

	From the standard cor. of secs. 33 and 34, on the S. bdy. of the Tp., previously described.
	N. 0° 02' W., bet. secs. 33 and 34.
	Over mountainous land, through scattered pinon and juniper; by triangulation; desc. about 40 ft. over gentle N. slope.
7.00	Approx. dist. to S. rim of canyon, bears irregularly E. and W.; desc. about 400 ft. over abrupt N. slope.
20.00	Approx. dist. to bottom of canyon, drains W.; asc. about 300 ft. over abrupt S. slope.
34.43	End of triangulation on N. rim of canyon, bears irregularly E. and W.; desc. about 10 ft. over nearly level 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., on solid sandstone, in a mound of stone, 4 ft. base to top, with brass cap mkd. T20S R17E ¼ S33 | S34 1960
	Desc. about 120 ft. over gentle N. slope.
71.90	S. rim of canyon, bears irregularly E. and W.; beginning of triangulation; desc. about 100 ft. over abrupt N. slope.
78.00	Approx. dist. to bottom of canyon, drains W.; asc. abruptly about 100 ft. over broken ledges on steep S. slope.
80.00	Point for the cor. of secs. 27, 28, 33 and 34, falls on broken ledges in impractical place for cor. monument.
	Land, mountainous. Soil, shallow sand and rock. Timber, scattered pinon and juniper.

Survey of a Portion of the Subdivision of T. 20 S., R. 17 E.

Chains	
	N. 0° 02' W., bet. secs. 27 and 28.
	Cont. triangulation started in previous mile.
5.06	End of triangulation on N. rim of canyon, bears E. and W.
5.10	Point selected for the witness cor. of secs. 27, 28, 33 and 34.
	Set an iron post, 30 ins. long, 2½ ins. diam., on solid rock, in a mound of stone, 4½ ft. base to top, with brass cap mkd.
	T20S R17E S27 | S28 S33 | S34 W.C. 1960
	Asc. about 60 ft. over gently rolling land, through scattered timber.
26.30	Land becomes mountainous; asc. about 70 ft. over SE. Slope of spur.
28.90	Spur, projects E.; desc. about 80 ft. over NE. slope.
33.00	Wash, 10 lks. wide, 2 ft. deep in bottom of ravine, drains E.; asc. about 20 ft. over S. slope.
36.80	Spur, projects E.; desc. about 30 ft. over N. slope.
39.40	Wash, 10 lks. wide, 1 ft. deep, drains E.; asc. about 30 ft. over SE. 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, in a mound of stone, 4 ft. base to top, with brass cap mkd.
	T20S R17E ¼ S28 | S27 1960
	Asc. about 200 ft. over SE. slope.
50.00	Top of ledge, 50 ft. high, bears N. 40° E. and S. 40° W.
50.10	Spur, projects S. 40° W.; beginning of triangulation; asc. about 430 ft. over SW. slope.
80.00	Point for the cor. of secs. 21, 22, 27 and 28 falls on broken ledge in impractical place for cor. monument.
	Land, mountainous. Soil, rocky. Timber, scattered pinon and juniper.
	N. 0° 02' W., bet. secs. 21 and 22.
	Continuation of triangulation started in previous mile.
3.40	End of triangulation and point selected for the witness cor. of secs. 21, 22, 27 and 28.
	Set an iron post, 30 ins. long, 2½ ins. diam., 16 ins. in the ground, in a mound of stone, 3 ft. base to top, with brass cap mkd.
	T20S R17E S21 | S22 S28 | S27 W.C.

Chains	
	Beginning of another triangulation; desc. about 500 ft. over steep and broken SW. slope.
13.87	End of one triangulation, beginning of another.
13.90	Top of ascent, bears N. 80° W. and S. 80° E.; desc. about 750 ft. over steep and broken NE. slope.
39.40	Approx. dist. to bottom of ravine, drains N. 80° E.; asc. about 20 ft. over SE. slope.
40.00	Point for the ¼ sec. cor. of secs. 21 and 22.
	Set an iron post, 30 ins. long, 2½ ins. diam., 10 ins. in the ground, in a mound of stone to top, with brass cap mkd.
	T20S R17E ¼ S21 | S22 1960
42.15	End of triangulation on small spur, projects E.; beginning of another triangulation; desc. about 100 ft. over NE. slope.
50.00	Approx. dist. to ravine, drains N. 80° E.; asc. about 200 ft. over SE. slope of spur.
72.49	End of triangulation.
73.90	Spur, projects E. about 4.00 chs.; desc. about 140 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., 4 ins. in the ground to solid rock, in a mound of stone, 3½ ft. base to top, with brass cap mkd.
	T20S R17E S16 | S15 S21 | S22 1960
	Land, mountainous, broken. Soil, sandy loam, clay, rocky. Timber, none.
	N. 0° 02' W., bet. secs. 15 and 16.
	Over broken, mountainous land, through scattered pinon and juniper.
	Desc. about 10 ft. over NE. slope.
6.60	Spur, projects E.; desc. about 270 ft. over N. slope.
15.00	Head of ravine, drains N. 5° E.; desc. about 240 ft. along E. slope.
40.00	Point for the ¼ sec. cor. of secs. 15 and 16.
	Set an iron post, 30 ins. long, 2½ ins. diam., 14 ins. in the ground to solid rock, in a mound of stone, 2 ft. base to top, with brass cap mkd.

Chains	
	T20S R17E ¼ S16 | S15 1960
43.00	Canyon, 1.00 ch. wide, 2 ft. deep, drains W.; beginning of triangulation; asc. about 260 ft. over S. slope of spur.
55.50	Approx. dist. to spur, projects W.; desc. about 250 ft. over broken N. slope.
65.00	Approx. dist. to ravine, drains S. 80° W.; asc. about 300 ft. over broken S. slope of spur.
73.88	End of triangulation; spur projects W. about 1.00 ch.
74.50	Point selected for the witness cor. of secs. 9, 10, 15 and 16.
	Set an iron post, 30 ins. long, 2½ ins. diam., 4 ins. in the ground to solid rock, in a mound of stone, 4 ft. base to top, with brass cap mkd.
	T20S R17E W C S 9 | S10 S16 | S15 1960
	Thence by triangulation; desc. about 210 ft. over broken, steep N. slope.
80.00	Point for the cor. of secs. 9, 10, 15 and 16 falls on broken ledge in impractical place for cor. monument.
	Land, mountainous, broken. Soil, rocky loam and clay. Timber, scattered pinon and juniper.
	N. 0° 02' W., bet. secs. 9 and 10.
	Over broken land, through scattered pinon and juniper.
	By triangulation; desc. about 240 ft. over broken N. slope.
10.00	Approx. dist. to bottom of ravine, drains S. 70° W.; asc. about 580 ft. over broken SE. slope.
25.83	End of triangulation on spur, projects S. 45° W.; desc. about 200 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., 6 ins. in the ground to solid rock, in a mound of stone, 4 ft. base to top, with brass cap mkd.
	T20S R17E ¼ S 9 | S10 1960
	Beginning of triangulation; desc. about 500 ft. over NW. slope.
68.70	Tusher Creek, 60 lks. wide, 2 ft. deep, drains S. 10° W. from S. 60° E.
68.89	End of one triangulation, beginning of another; asc. about 300 ft.

Survey of a Portion of the Subdivision of T. 20 S., R. 17 E.

Chains	
72.50	Approx. dist. to base of ledge.
76.00	Approx. dist. to top of ledge, 50 ft. high, bears S. 75° W. and N. 75° E.; asc. about 20 ft. over SW. slope.
77.40	End of triangulation; point selected for the witness cor. of secs. 3, 4, 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, in a mound of stone, 4 ft. base to top, with brass cap mkd. T20S R17E W C S4 | S3 S 9 | S10 1960
80.00	Point for the cor. of secs. 3, 4, 9 and 10 falls on ledge where cor. cannot be established. Land, mountainous, broken. Soil, sandy loam. Timber, scattered pinon and juniper.
	N. 0° 02' W., bet. secs. 3 and 4. Over mountainous land, through scattered pinon and juniper. By triangulation; asc. abruptly about 350 ft. over steep and broken SW. slope.
3.02	Top of ledge, 75 ft. high, bears S. 45° E. and N. 45° W.; thence asc. about 100 ft. over gradual SW. slope.
18.00	Approx. dist. to ledge, 20 ft. high, bears N. 45° W. and S. 45° E.
20.84	End of one triangulation on spur projecting W.; beginning of another triangulation; desc. about 250 ft. over N. slope.
30.00	Approx. dist. to ravine, drains N. 80° W.; asc. about 300 ft. over SW. 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 to solid rock, in a mound of stone, 4 ft. base to top of post, with brass cap mkd. T20S R17E ¼ S4 | S3 1960
41.27	End of triangulation.
41.30	Spur, projects N. 85° W.; desc. 100 ft. over N. slope.
70.00	S. rim of canyon, bears S. 80° W. and N. 80° E.; desc. 80 ft. over NW. slope.
79.50	Bottom of canyon, drains S. 45° W.; asc. 80 ft. over SE. slope.
80.00	Point for the 1/16 sec. cor. of secs. 3 and 4. Set an iron post, 30 ins. long, 2½ ins. diam., 12 ins. in the ground to solid rock, in a mound of stone, 2 ft. base to top, with brass cap mkd.

Survey of a Portion of the Subdivision of T. 20 S., R. 17 E.

Chains	
	T20S R17E 1/16 S4 | S3 60 1960
85.51	Intersect the N. bdy. of the Tp. at point for closing cor. of secs. 3 and 4.
	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 R17E S33 S4 | S3 C C T20S 1960
	from which
	The cor. of secs. 33 and 34, T. 19 S., R. 17 E., which is monumented with an iron post, 2½ ins. diam., set, mkd. and witnessed as described in the field notes of the S. bdy. of said township, the survey of which was executed concurrently under this same survey group, bears East 3.01 chs. dist.
	Land, mountainous. Soil, sandy and rocky loam. Timber, scattered pinon and juniper.
	At the point for the cor. of secs. 2 and 3 on the N. bdy. of the Tp., which point is 80.00 chs. East of the closing cor. of secs. 3 and 4, described above.
	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.
	S3 | S2 T20S R17E 1960
	from which
	The true point for cor. of secs. 34 and 35, T. 19 S., R. 17 E., bears East 3.01 chs. dist.
	The witness cor. of secs. 34 and 35, T. 19 S., R. 17 E., which is monumented with an iron post, 2½ ins. diam., set, mkd. and witnessed as described in the field notes of the S. bdy. of said township, the survey of which was executed concurrently under this same survey group, bears East 2.91 chs. dist.
	S. 0° 01' E., bet. secs. 2 and 3.
	Over mountainous land, through scattered pinon and juniper.
	By triangulation; desc. about 300 ft. over broken SW. slope.
5.63	Point for the 1/16 sec. cor. of secs. 2 and 3 falls among broken cliffs where cor. monument cannot be established.
20.00	Approx. dist. to bottom of canyon, drains irregularly SW.; asc. about 540 ft. over N. slope.

U. S. GOVERNMENT PRINTING OFFICE 16—38880-2

Chains	
39.86	End of triangulation.
40.00	Ridge, bears NE. and SW.; desc. about 120 ft. over S. slope.
45.63	Point for the ¼ sec. cor. of secs. 2 and 3.
	Set an iron post, 30 ins. long, 2½ ins. diam., 4 ins. in the ground to solid rock, in a mound of stone, 3½ ft. base to top, with brass cap mkd.
	T20S R17E ¼ S2 | S3 1960
	Beginning of triangulation; desc. about 550 ft. over broken S. slope.
77.40	Approx. dist. to bottom of canyon, drains irregularly W.; asc. about 120 ft. over N. slope.
85.63	Point for the cor. of secs. 2, 3, 10 and 11 falls on boulder where cor. cannot be established.
	from which
	Point selected for the witness cor. of secs. 2, 3, 10 and 11, bears S. 0° 01' E., 0.11 chs. dist.
	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 R17E W C S3 | S2 S10 | S11 1960
	Land, mountainous, broken. Soil, rocky. Timber, scattered pinon and juniper.
	At the point for the cor. of secs. 1 and 2 on the N. bdy. of the Tp., which point is 160.00 chs. East of the closing cor. of secs. 3 and 4, previously described.
	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. diam., to top, with brass cap mkd.
	S2 | S1 T20S R17E 1960
	from which
	The cor. of secs. 35 and 36, T. 19 S., R. 17 E., which is monumented with an iron post, 2½ ins. diam., set, mkd. and witnessed as described in the field notes of the S. bdy. of said Tp., the survey of which was executed concurrently under this same survey group, bears East 3.01 chs. dist.
	S. 0° 01' E., bet. secs. 1 and 2.
	Over mountainous land, through scattered timber.

Survey of a Portion of the Subdivision of T. 20 S., R. 17 E.

Chains	
5.75	Point for the 1/16 sec. cor. of secs. 1 and 2. Set an iron post, 30 ins. long, 2½ ins. diam., 10 ins. in the ground to solid rock, in a mound of stone, 3½ ft. base to top, with brass cap mkd. T20S R17E 1/16 S2 | S1 1960
26.40	Top of ascent, bears E. and W.; desc. 230 ft. over S. slope.
33.18	Beginning of triangulation.
37.11	Point selected for the witness ¼ sec. cor. of secs. 1 and 2. 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 R17E ¼ S2 | S1 W C 1960 Desc. about 850 ft. over broken ledges on steep S. slope.
45.75	Point for the ¼ sec. cor. of secs. 1 and 2 falls on broken ledges in place impractical to establish cor. monument.
67.80	Approx. dist. to bottom of canyon, drains SW.; asc. about 300 ft. over N. slope.
85.75	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 solid rock, in a mound of stone, 3½ ft. base to top, with brass cap mkd. T20S R17E S2 | S1 S11 | S12 1960 Land, mountainous, broken. Soil, sandy, rocky. Timber, scattered pinon and juniper.

N. 89° 56' W., bet. secs. 2 and 11.

Over mountainous land, through scattered pinon and juniper.

By triangulation; desc. about 50 ft. over W. slope.

4.20	Approx. dist. to small draw, drains N.; asc. about 80 ft. over E. slope.
18.20	Approx. dist. to spur, projects N.; desc. about 90 ft. over W. slope.
26.20	Approx. dist. to draw, drains N.; asc. about 60 ft. over E. slope.
30.20	Approx. dist. to spur, projects N.; desc. about 40 ft. over W. slope.
35.00	Approx. dist. to draw, drains N.; asc. about 50 ft. over E. slope.

427

Survey of a Portion of the Subdivision of T. 20 S., R. 17 E.

Chains	
40.00	End of triangulation on spur, projects N.; desc. 90 ft. over NW. slope.
40.10	Point for the ¼ sec. cor. of secs. 2 and 11. 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. T20S R17E ¼ S 2 / S11 1960
46.00	Slope changes to W.; desc. about 100 ft.
51.50	Draw, drains N.; asc. about 60 ft. over NE. slope.
63.00	Top of ascent; desc. about 110 ft. over NW. slope.
70.50	Draw, drains NW.; asc. about 110 ft. over E. slope.
74.30	Draw, drains N.
80.20	The true point for the cor. of secs. 2, 3, 10 and 11, which is witnessed S. 0° 01' E., 0.11 chs. dist., previously described. Land, mountainous. Soil, sandy, rocky. Timber, scattered pinon and juniper.
	From the cor. of secs. 15, 16, 21 and 22. N. 89° 52' W., bet. secs. 16 and 21, parallel to average bearing of S. bdy. of the Tp. Over broken, mountainous land, through scattered pinon and juniper. By triangulation; asc. about 150 ft. over NE. slope.
6.00	Approximate dist. to top of ledge, 20 ft. high, bears S. 40° E. and N. 40° W.; asc. about 50 ft. over gradual NE. slope.
20.00	Approximate dist. to spur, projects N. 10° W.; desc. about 50 ft. over SE. slope.
24.07	End of one triangulation on top of ledge 50 ft. high, bears N. and S.; by another triangulation desc. about 360 ft. over steep and broken W. slope.
34.00	Approximate dist. to ravine, drains NW.; asc. about 100 ft. over NE. slope.
38.00	End of triangulation on spur, projects N. 15° W.; desc. about 250 ft. over rocky SW. slope. Point selected for the witness ¼ sec. cor. of secs. 16 and 21. 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 R17E ¼ W S16 / C S21 1960 Beginning of triangulation.

Chains	
40.00	Point for the ¼ sec. cor. of secs. 16 and 21 falls on ledge where it is impractical to establish cor. monument.
50.00	Approximate dist. to ravine, drains N.; asc. about 650 ft. over steep, broken E. slope.
77.19	End of triangulation on narrow ridge, bears N. and S.; desc. 20 ft. over W. slope.
78.50	Top of ledge about 100 ft. high, bears irregularly N. and S.
	Point selected for the witness cor. of secs. 16, 17, 20 and 21.
	Set an iron post, 30 ins. long, 2½ ins. diam., on solid sandstone, in a mound of stone, 3½ ft. base to top, with brass cap mkd.
	T20S R17E W S17 | S16 C S20 | S21 1960
80.00	True point for the cor. of secs. 16, 17, 20 and 21 falls on broken ledge where it is impractical to establish cor. monument.
	Land, mountainous, broken. Soil, rocky clay. Timber, scattered pinon and juniper.
	From the true point for the cor. of secs. 16, 17, 20 and 21.
	N. 0° 03' W., bet. secs. 16 and 17.
	Over mountainous land; asc. 50 ft. along W. slope.
9.00	Top of ridge, bears N. 5° W. and S. 5° E.; desc. 10 ft. over gentle NE. slope.
23.00	Ridge, bears N. 5° E. and S.; desc. 110 ft. over NW. slope.
32.80	Ridge, bears N. 15° W. and S. 15° E.; desc. about 160 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., 10 ins. in the ground to solid rock, in a mound of stone, 3 ft. base to top, with brass cap mkd.
	T20S R17E ¼ S17 | S16 1960
	Beginning of triangulation; desc. about 60 ft. along E. slope.
56.50	Approximate dist. to spur, projects N. 80° E.; desc. about 400 ft. over NW. slope.
62.00	Approximate dist. to spur, projects N. 80° E.; desc. about 400 ft. over NW. slope.

Chains	
75.00	Approx. dist. to spur, projects E.; desc. about 150 ft. over N. slope; thence asc.
78.00	Approx. dist. to head of ravine, drains E.; asc. about 30 ft. along E. slope.
79.97	End of triangulation.
80.00	The true point for cor. of secs. 8, 9, 16 and 17 falls on steep, broken ledges facing NE. where cor. monument cannot be established.
	From the true cor. point
	Point selected for establishment of witness cor. of secs. 8, 9, 16 and 17 at NE. face of broken cliffs, bears S. 89° 49' E., 0.89 chs. dist.
	Set an iron post, 30 ins. long, 2½ ins. diam., 12 ins. in the ground to solid rock, in a mound of stone, 3 ft. base to top, with brass cap mkd.
	T20S R17E W S8 | S9 C S17 | S16 1960
	Land, mountainous. Soil, rocky clay, with trace of coal N. 10.00 chs. Timber, none.
	From the true point for the cor. of secs. 9, 10, 15 and 16.
	N. 89° 49' W., bet. secs. 9 and 16.
	Over broken land; by triangulation; desc. about 200 ft. over NW. slope.
6.00	Approx. dist. to ravine, drains S. 30° W.; asc. about 150 ft. over SE. slope.
20.00	Approx. dist. to spur, projects S. about 8.00 chs.; desc. about 200 ft. over SW. slope.
35.00	Approx. dist. to road, unimproved, bears irregularly N. and S.
39.00	Canyon, 20 lks. wide, 4 ft. deep, drains N. 45° W.; asc. about 30 ft. over NE. slope.
40.00	Point for the ¼ sec. cor. of secs. 9 and 16, at end of triangulation.
	Set an iron post, 30 ins. long, 2½ ins. diam., 4 ins. in the ground to solid rock, in a mound of stone, 3½ ft. base to top, with brass cap mkd.
	T20S R17E ¼ S 9 / S16 1960
41.00	Top of ascent, projects NE.; desc. about 30 ft. over NW. slope.
45.10	Ravine, drains N. 70° E.; asc. about 30 ft. over NE. slope.
48.10	Beginning of triangulation; asc. about 200 ft. over rolling clay hills.
62.00	Approx. dist. to spur, projects N.; desc. about 30 ft. over NW. slope.

U. S. GOVERNMENT PRINTING OFFICE 16—26820-2

Chains	
65.00	Approx. dist. to ravine, drains N. 50° E.; asc. about 150 ft. over NE. slope.
79.11	The witness cor. of secs. 8, 9, 16 and 17, previously described.
80.00	True point for the cor. of secs. 8, 9, 16 and 17.
	Land, broken E. ½ mile, rolling W. ½ mile. Soil, rocky clay. Timber, none.
	From the standard cor. of secs. 32 and 33, on the S. bdy. of the Tp., previously described.
	N. 0° 03' W., bet. secs. 32 and 33.
	Over broken land; by triangulation; asc. abruptly about 820 ft. over ledges and talus on broken S. slope.
21.24	End of triangulation on ledge about 300 ft. high, bears E. and W.; desc. 60 ft. over gentle N. slope, through scattered pinon and juniper.
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, with brass cap mkd. T20S R17E ¼ S32 | S33 1960
	Desc. about 50 ft. over gentle N. slope.
51.30	S. rim of canyon, bears N. 75° E. and S. 75° W.; desc. about 140 ft. over NW. slope; by triangulation.
58.00	Approx. dist. to head of ravine, drains NE.; asc. about 30 ft. along E. slope.
64.80	Approx. dist. to spur, projects N. 45° E.; desc. about 450 ft. over broken NW. 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, in a mound of stone, 3½ ft. base to top, with brass cap mkd. T20S R17E S29 | S28 S32 | S33 1960
	Land, mountainous, broken. Soil, gravelly clay, rocky. Timber, scattered pinon and juniper.
	From the standard cor. of secs. 31 and 32, on the S. bdy. of the Tp., previously described.
	N. 0° 03' W., bet. secs. 31 and 32.
	Over rolling desert land.

Chains	
40.00	Point for the ¼ sec. cor. of secs. 31 and 32.
	Set an iron post, 30 ins. long, 2½ ins. diam., 24 ins. in the ground, with brass cap mkd.
	T20S R17E ¼ S31 | S32 1960
	Raise a flat mound of stone, 3 ft. diam., around the post.
46.60	Road, unimproved, bears S. 40° W. and N. 40° E.
52.20	Wash, 30 lks. wide, 4 ft. deep, drains S. 70° W.
53.00	Wash, 15 lks. wide, 2 ft. deep, drains S. 20° W.
62.40	Wash, 10 lks. wide, 2 ft. deep, drains S. 30° W.
69.50	Wash, 20 lks. wide, 4 ft. deep, drains S. 80° E.
73.70	Wash, 10 lks. wide, 2 ft. deep, drains W.
80.00	Point for the cor. of secs. 29, 30, 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, 2½ ft. base to top, with brass cap mkd.
	T20S R17E S30 | S29 S31 | S32 1960
	Land, rolling clay hills. Soil, clay. Timber, none.
	From the cor. of secs. 28, 29, 32 and 33.
	N. 89° 54' W., bet. secs. 29 and 32.
	Over rolling desert land.
4.40	Wash, 30 lks. wide, 2 ft. deep, drains S. 45° W.
11.30	Same wash, 60 lks. wide, 3 ft. deep, drains N. 70° W.
20.10	Same wash, 30 lks. wide, 3 ft. deep, drains S. 30° W.; asc. 60 ft. over SE. slope.
30.70	Top of ascent; desc. 50 ft. along S. slope.
40.07	Point for the ¼ sec. cor. of secs. 29 and 32.
	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 R17E ¼ S29 S32 1960

Survey of a Portion of the Subdivision of T. 20 S., R. 17 E.

Chains	
	Desc. about 20 ft. over SW. slope.
52.90	Wash, 15 lks, wide, 1 ft. deep, drains S.; desc. about 120 ft. over NE. slope.
59.10	Spur, projects S.; desc. about 40 ft. over W. slope.
78.20	Wash, 10 lks. wide, 2 ft. deep, drains S. 10° W.
80.14	The cor. of secs. 29, 30, 31 and 32.
	Land, rolling. Soil, sandy clay. Timber, none.

General Description

T. 20 S., R. 17 E. is located approximately eight miles northeast of Green River, Utah in the Book Cliffs. The southwest corner of the township is rolling desert land with clay soil and very little vegetation. The remaining portion of the township is broken, mountainous land covered with scattered pinon and juniper and varies in elevation from 3,000 to 6,000 feet above sea level.

There are two jeep trails in the area. One follows Tusher Creek east through about the center of the township and the other is in section 32 and along the south boundary of the township along sections 31 and 33. There is no permanent source of water within the area.

The area is drained in a westerly direction by Tusher Creek and Coal Canyon and their tributaries. Section 36 is drained by Horse Canyon in a southerly direction.

There is an abandoned coal mine in the NE¼ of section 35 and a trace of coal in the NW¼ of section 16.

Timber consists of scattered pinon and juniper in the west half of the township and becomes more dense in the east portion.

4-680
(Feb., 1950)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FIELD ASSISTANTS

NAMES	CAPACITY
Glen B. Hatch	Crew Chief and notekeeper
Wallace Ott	Instrumentman
Gordon Shurtz	Head chainman
Wayne Fisher	Flagman
Parley Pratt	Cornerman
Gary Rutledge	Axeman
A. D. Griffin	Crew Chief
Gary T. Oviatt	Chainman
Douglas G. Haycock	Chainman
Rex J. Edwards	Transitman
David Hickman	Flagman
Dale F. Keller	Cornerman

16—53565-2

434

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 the south boundary (Fourth Standard Parallel South), the dependent resurvey of the east boundary of section 36, the survey of the north five miles of the east boundary, the dependent resurvey of the west and north boundaries of sections 35 and 36 and the survey of a portion of the subdivisional lines of T. 20 S., R. 17 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 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

August 14, 1961

George D. Voorhees
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, S. bdy. (Fourth Standard Parallel South), dependent resurvey of the E. bdy. of sec. 36, survey of north five miles of E. bdy., dependent resurvey of W. and N. boundaries of secs. 35 and 36 and survey of portion of subdivisional lines of T. 20 S., R. 17 E., Salt Lake Meridian, Ut

executed by Glen B. Hatch and A. D. Griffin, Cadastral Surveyors, under the supervisi of George D. Voorhees, Cadastral Surveyor

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

E. E. Lemmington
~~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. 17 E., SLM, Utah, is a true copy of the original ~~field notes.~~

~~Cadastral Engineering Staff Officer.~~

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