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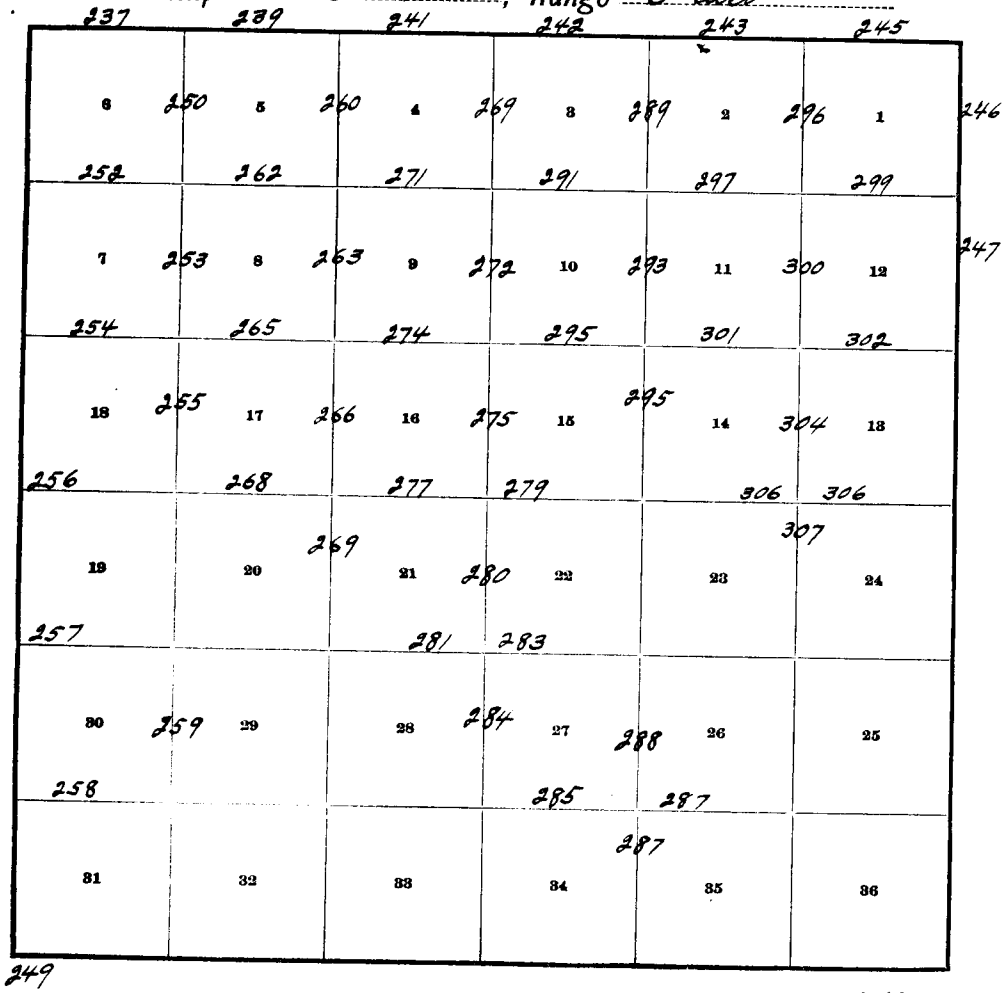

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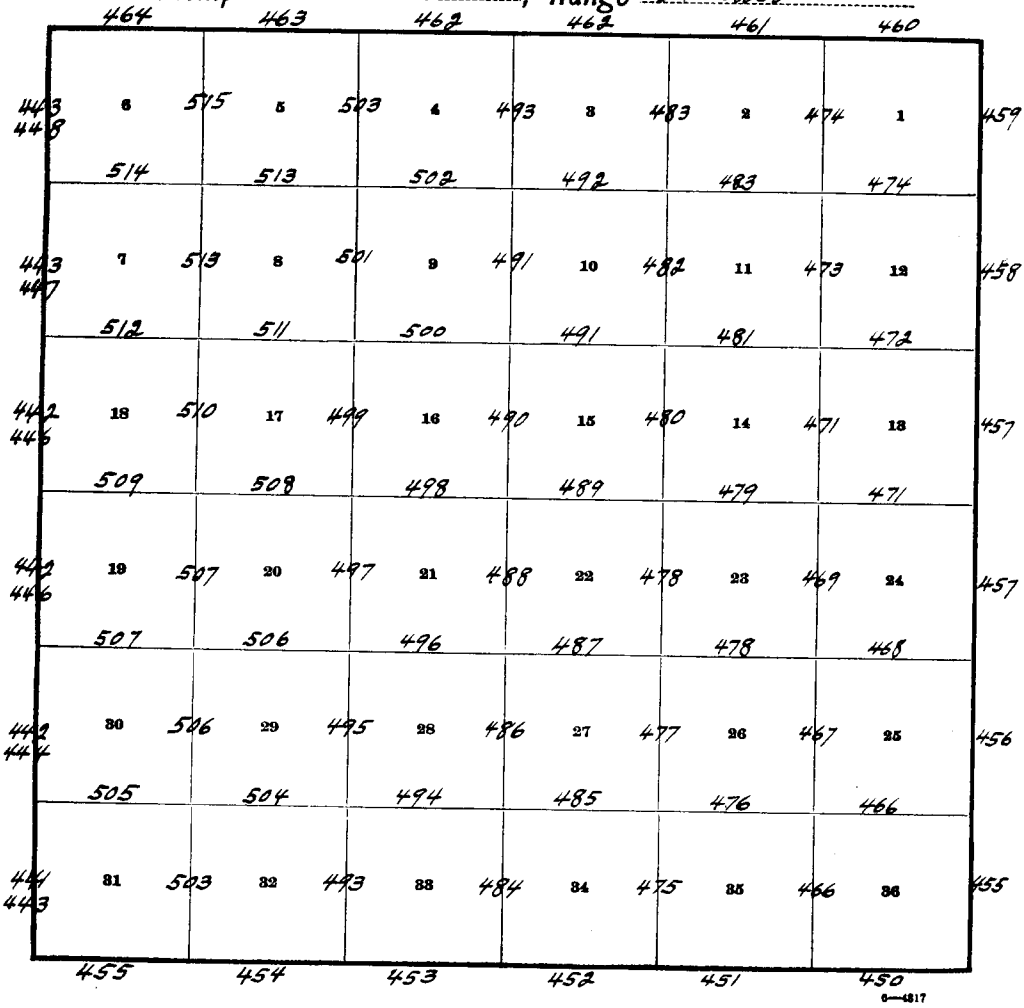

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(April 1933)

BOOK A-503 - "F"

RECEIVED
OCT 18 1934
Department Of The Interi
Public Survey Office
Salt Lake City, Utah

FIELD NOTES

OF THE SURVEY OF THE

NORTH AND EAST BOUNDARIES

AND SUBDIVISION OF,

T. 42 S., R. 4 E.

Of the Salt Lake *Meridian,*

In the State of Utah

EXECUTED BY

Elliot Bird

and

Andrew Nelson

Under special instructions dated February 1, *19* 16, *which provided for the surveys included under Group No.* 51, *bearing the approval of the Commissioner of the General Land Office under date of* April 4, 1916 *and assignment instructions dated* October 1, *19* 17, and supplemental assignment instructions dated December 1, 1933.

Survey commenced November 23, *19* 17.

Survey completed January 31, *19* 34.

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All lines colored blue were surveyed by Elliot Bird,
U.S. Surveyor.

All lines colored orange were surveyed by Andrew Nelson,
U.S. Surveyor.

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The survey of T. 42 S., R. 4 E., Salt Lake Meridian, Utah, was commenced November 23, 1917, and executed with Young and Sons light mountain transits No. 8487, used by Andrew Nelson, U.S. Transitman, and No. 8589, used by Elliot Bird, U.S. Transitman.

The instruments are equipped with Smith solar attachments and full vertical circles. The horizontal limbs are provided with double verniers placed opposite to each other and reading to single minutes of arc, which is also the least count of the verniers of the latitude and declination arcs and vertical circles.

The instruments were approved for use on this survey, conditional upon satisfactory field tests, by the assistant supervisor of surveys, for District No. 6, in supplemental assignment instructions dated October 1, 1917.

During the progress of this survey, the solar attachments were not used, and all lines of the survey, were projected from fore and back sights from meridians determined by observations made upon Polaris, two of which appear in these notes.

Nov. 25, 1917: Stationed at the ¼ sec. cor. of secs. 28 and 33, T. 42 S., R. 4 E., Salt Lake Meridian, Utah, in approximate latitude 37°07' N., longitude 111°09' W., at 3h 13m a.m. by our watches which carries correct local mean time, with instrument No. 8487, we observe Polaris at western elongation, making four observations, two each with the telescope in direct and reversed positions, and mark the mean point in the line thus determined by a tack in a stake, driven firmly in the ground, about 10 chains to the N. of our station.
At 9h 0m. a.m., we lay off the azimuth of Polaris, 1°35' to the east, and mark the meridian thus determined by a tack in a stake, driven firmly in the ground, about 10 chains north of our station.

At apparent noon, with the instrument in the meridian, we make a meridian observation of the sun for time and latitude, observing simultaneously the altitude of the sun's lower limb and the transit of the sun's west limb, reversing the telescope and observing simultaneously, the altitude of the sun's upper limb and the transit of the sun's east limb,

Mean observed altitude	32° 08'.5
Reduced latitude	37° 07' N.
Mean watch time of observation	11h 47m 04s a.m.
Watch carries correct local mean time	

Nov. 27, 1917: Stationed at the cor. of secs. 23, 24, 25, and 26, T. 42 S., R. 4 E., Salt Lake Meridian, Utah, in approximate latitude 37°09' N., longitude 111° [illegible]' W., at 11h 06m a.m. local mean time, I make an hour angle obsn. of Polaris east of the meridian, making four observations, two each with the telescope in direct and reversed positions, reading the horizontal deflection angle from a point on a ledge about 3 miles to the north, in the direction east to Polaris.

Mean l. m. t. of observation	11h 06m a.m.
Mean horizontal deflection angle from point on ledge to star	0° 41' E.
True bearing of point on ledge, North.	
Azimuth of Polaris	0° 41' E.

During this year, only the south portion of the township was surveyed, and work was discontinued on the township,

U. S. GOVERNMENT PRINTING OFFICE. 1921 6—8155

December 1, 1917.

The survey of the township, was resumed on December 18, 1933, The survey was completed by Elliot Bird, U.S. Surveyor, and Buff and Buff transit No. 18003, was used for the completion of the survey.
The instrument is equipped with Smith solar attachment and full vertical circle. The horizontal limb is provided with two double verniers placed opposite to each other and reading to single minutes of arc, which is also the least count of the verniers of the latitude and declination arcs, and vertical circle.

The instrument was approved for use on this survey, by the district cadastral engineer for District No. 6, conditional upon satisfactory field tests, in supplemental assignment instructions dated December 1, 1933.

During the completion of the survey of this township, the solar attachment was not used, and all lines of the survey, were projected by fore and back sights from true meridians which were determined by hour angle observations made upon Polaris, one of which appears in these notes.

December 26, 1933: Stationed at the cor. of secs. 15, 16, 21, and 22, in approximate latitude 37°09' N., longitude 111° 23 ' W., at 11h 30m a.m. by my watch which carries correct 105th meridian time, comparison being made with time given over a radio on December 25th at Marble Canyon Ariz., I make an hour angle observation of Polaris east of the meridian, making four observations, two each with the telescope in direct and reversed positions, reading the horizontal deflection angle from a sharp point on a ledge about 1½ miles to the N. of my station, in the direction east to Polaris.

Mean watch time of observation	11h 30m a. m.
Mean horizontal deflection angle from point on ledge to star	0° 34.6' E.
Azimuth of Polaris	0° 34.6' E.
True bearing of point on ledge is North.	

The instruments were kept in good adjustment throughout the progress of the survey, and numerous hour angle observations were taken on Polaris to determine meridians from which the lines of the survey were projected

MEASUREMENTS.

Unless otherwise specified all measurements are made with Lallie steel tapes, 5 chains in length compared with a Lufkin standard steel tape 1 chain in length and found correct. The measurements are made on the slope, the vertical angle determined with clinometers, and the slope measurements properly reduced to true horizontal distances.

FIRST GUIDE MERIDIAN EAST, T. 42 S., BET. Rs. 4 and 5 E.

From the cor. of Tps. 42 and 43 S., Rs. 4 and 5 E., which is an iron post, 3 ins. diam., set, marked and witnessed as described in the official records of the survey of T. 43 S., R. 4 E, of this group.

North, bet. secs. 31 and 36.

Ascend gradual S. slope of rolling bench land through scattered undergrowth.

Chains	
40.00	On gradual SW. slope, 60 ft. above the township cor. Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground, for ¼ sec. cor., with brass cap marked ¼ S36 | S31 1917 raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.
41.00	Top of ascent on low ridge, bears E. and W.; descend gradual N. and NW. slope.
76.90	Small wash at base of descent, 30 ft. below spur, 5 lks. wide, 2 ft. deep, drains S. 60° W.; thence over gradual S. and SW. slopes.
80.00	On small shale flat. Set an iron post, 3 ft. long, 2 ins. diam., 27 ins. in the ground, for cor. of secs. 25, 30, 31, and 36, with brass cap marked T42S R4E | R5E S25 | S30 S36 | S31 1917 raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. Land, rolling, with a general southerly and southwesterly exposure and drainage. Soil, shallow loose sand and shale with outcroppings of sandstone and shale; 3rd rate. Sandstone and shale formation. Undergrowth, short sagebrush, greasewood and shadscale. No timber. Fair grazing land. North, bet. secs. 25 and 30. Ascend gradual SW. slope of rolling bench land through scattered short undergrowth.
30.00	Wash, 10 lks. wide, 3 ft. deep, drains SW.
31.60	Main wash draining S., bears W. of line, 25 lks. dist.
39.90	Wash, 20 lks. wide, 8 ft. deep, drains SW.
40.00	True point for the ¼ sec. cor. falls on N. edge of wash, where it is impracticable to set a permanent cor.
40.20	Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground, for witness cor. to the ¼ sec. cor. secs. 25 and 30 with brass cap marked

Chains

S25 | S30
WC

1917

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

40.50 Recross same wash as last, drains S. 20° E.

48.20 Recross same wash, drains S. 10° W.

80.00 On gradual E. slope at the W. edge of wash which drains S., 100 ft. above the witness cor. to the ¼ sec. cor.

Set an iron post, 3 ft. long, 2 ins. diam., 27 ins. in the ground, for cor. of secs. 19, 24, 25, and 30, with brass cap marked

T42S

R4E	R5E
S24	S19
S25	S30

1917

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

Land, rolling bench with a general southwesterly exposure and drainage.

Soil, dark blue clay mixed with sand and shale; 3rd rate. Sandstone and blue shale formation.

Undergrowth, short sagebrush, shadscale, and greasewood.

No timber.

Fair grazing land.

North, bet. secs. 19 and 24.

Ascend gradually over rolling W. slope of bench land through scattered short undergrowth.

0.70 Wash, 30 lks. wide, 1 ft. deep, in draw, 60 ft. deep, drains S. 10° E.

40.00 On top of E. side of draw, bears N. and S., 100 ft. above sec. cor.

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

¼

S24 | S19

1933

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

Continue gradual ascent of general S. slope of bench land.

Chains	
55.60	Recross draw, 60 ft. deep, drains S. 10° W.
65.90	Recross draw, 60 ft. deep, drains S. 10° E.
80.00	On top of W. brink of gulch, 210 ft. above the ¼ sec. cor., drains S. 10° E.

Set an iron post, 3 ft. long, 2 ins. diam., 27 ins. in the ground, for cor. of secs. 13, 18, 19, and 24, with brass cap marked

T4S

R4E	R5E
S13	S18
S24	S19

1933

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

Land, rolling bench with a general southerly exposure and drainage.

Soil, deep yellow and blue clay, mixed with gravel; 4th rate. Sandstone and shale formation.

Undergrowth, short shadscale, sagebrush, greasewood, and weeds.

No timber.

Fair grazing.

North, bet. secs. 13 and 18.

Descend abrupt NE. slope of broken foot hills of the Smoky Mountains through scattered short undergrowth.

1.00	Gulch, 60 ft. below cor., drains S. 10° E.; ascend gradually over broken W. slope of ledges and ridge to the E.
16.20	Spur, 150 ft. above gulch, projects W., 2.50 chs. dist. to gulch; descend gradual NW. slope.
21.00	Gulch, 30 ft. below spur, drains S. 20° W., 5.00 chs. dist. to junction with main gulch which drains S. 10° W. from the NW.; ascend abrupt S. slope over broken ledges and blue shale breaks.
29.50	Outcropping of coal, 5 ft. thick, bears NE. and SW.
40.00	On abrupt NE. slope, 500 ft. above gulch.

Set an iron post, 3 ft. long, 1 in. diam., 10 ins. in the ground to solid rock and in a mound of stone to top, for ¼ sec. cor., with brass cap marked

¼

S13 | S18

1934

Deposit a sandstone, 8 x 6 x 6 ins., at base of post, marked with a cross (X)

Chains	
	Continue abrupt ascent over broken sandstone ledges and shale breaks facing E. and NE.
60.00	Top of divide ridge which forms the divide bet. Warm Creek to the S. and Water Hollow to the N., bears NW., about 10.00 chs. dist. to a timbered mesa, and SE., about 20.00 chs. dist. to a low saddle; descend gradually along broken E. slope over ledges.
80.00	On steep broken E. slope, 150 ft. below ridge.
	Set an iron post, 3 ft. long, 2 ins. diam., 10 ins. in the ground to solid rock and in a mound of stone to top, for cor. of secs. 7, 12, 13, and 18, with brass cap marked

T42S
R4E | R5E
S12 | S7
S13 | S18
1934

Deposit a sandstone, 10 x 10 x 8 ins., at base of post, marked with a cross (X).

Land, broken and mountainous, with a general easterly and westerly exposure and drainage.

Soil, shallow blue clay and ledges, with blue shale breaks 4th rate. Sandstone and shale formation.

Undergrowth, scattered shadscale, sagebrush, and weeds.

No timber.

Poor grazing land.

North, bet. secs. 7 and 12.

Ascend gradually over broken E. face of ledges and shale breaks, through scattered short undergrowth.

13.50	Ridge, 185 ft. above cor., bears E., and W., about 5.00 chs dist. to the NE. point of a timbered mesa; descend abruptly over broken NW. slope of ledges.
38.50	Gulch, 560 ft. below ridge, drains N. 30° E., and heads S. 30° W., about 15.00 chs. dist.; ascend gradually over broken SE. slope.
40.00	On broken SE. slope, 10 ft. above gulch.
	Set an iron post, 3 ft. long, 1 in. diam., 10 ins. in the ground to solid rock and in a mound of stone to top, for ¼ sec. cor., with brass cap marked

¼
S12 | S7
1934

Deposit a sandstone, 12 x 10 x 8 ins., at base of post, marked with a cross (X).

U. S. GOVERNMENT PRINTING OFFICE: 1931 6—8155

Chains	
53.00	Spur, 155 ft. above the ¼ sec. cor., projects N. 30° E., and bears S. 30° W., about 5.00 chs. dist. to spur which projects N.; descend abrupt N. slope.
64.50	Head of gulch, 170 ft. below spur, drains NE.; ascend gradually along steep E. slope.
80.00	On steep SE. slope, 150 ft. above head of gulch.
	Set an iron post, 3 ft. long, 2 ins. diam., 10 ins. in the ground to solid rock and in a mound of stone, for cor. of secs. 1, 6, 7, and 12, with brass cap marked

T42S
R4E | R5E
S1 | S6
S12 | S7
1934

Deposit a sandstone, 16 x 12 x 10 ins., at base of post, marked with a cross (X).

Land, broken and mountainous, with a general easterly and northerly exposure and drainage.

Soil, shallow blue clay and rock; 4th rate. Sandstone and shale formation.

Undergrowth, shadscale, greasewood, sagebrush, and weeds.

No timber.

Poor grazing.

North, bet. secs. 1 and 6.

Ascend steep SE. slope of broken mountainous land through scattered short undergrowth.

3.00	Spur, projects E., 2.00 chs. dist., thence NE., and bears W., 3.00 chs. dist. to junction with spur which projects N.; descend steep NE. slope.
7.80	Head of gulch, 90 ft. below spur, drains NE.; ascend steep SE. slope.
17.70	Spur, 50 ft. above head of gulch, projects NE.; descend abrupt NW. slope.
38.50	Bottom of main gulch, 590 ft. below spur, drains NE.
40.00	On NW. side of gulch.
	Set an iron post, 3 ft. long, 1 in. diam., 10 ins. in the ground to solid rock and in a mound of stone, for ¼ sec. cor., with brass cap marked

¼
S1 | S6
1934

Deposit a sandstone, 24 x 24 x 20 ins., at base of post, marked with a cross (X).

U. S. GOVERNMENT PRINTING OFFICE: 1931 6—8155

Chains	
	Thence across bottom lands of gulch.
44.60	Base of abrupt ascent over S. face of ledges; bears NE. and SW.
51.90	Intersect outcropping of coal, 3 ft. thick, bears NE. and SW.
58.50	Spur, 460 ft. above the ¼ sec. cor., projects N. 60° E.; descend abrupt NE. slope.
60.80	Head of gulch, 60 ft. below spur, drains N. 60° E.; ascend gradual SE. slope.
66.00	Spur, projects E., 50 ft. above head of gulch; descend gradually along ledgy E. slope.
69.00	Head of rocky gulch, 50 ft. below spur, drains NE.; continue descent along E. slope.
79.00	Small red shale spur, 290 ft. below last spur, projects NE.; descend abrupt NW. slope.
80.00	On abrupt NW. slope, 20 ft. below top of spur.

Set an iron post, 3 ft. long, 3 ins. diam., 18 ins. in the ground to solid rock and in a mound of stone to top, for cor. of Tps. 41 and 42 S., Rs. 4 and 5 E., with brass cap marked.

T41S

R4E	R5E
S36	S31
S1	S6

T42S

1934

Deposit a sandstone, 10 x 10 x 9 ins., at base of post, marked with a cross (X).

Land, broken and mountainous with a general northeasterly exposure and drainage.

Soil, shallow clay and shale mixed with loose slide rock; 4th rate. Sandstone and shale formation.

Undergrowth, shadscale, blackbrush, Brigham tea, and weeds.

No timber.

Poor grazing land.

NORTH BOUNDARY, T. 42 S., R. 4 E.

Knowing that a line projected W. from the cor. of Tps. 41 and 42 S., Rs. 4 and 5 E., will not close within the allowable limit of arc on the cor. of Tps. 41 and 42 S., Rs. 3 and 4 E., I commence at the cor. of Tps. 41 and 42 S., Rs. 4 and 5 E.

Thence:

West, on true line, bet. secs. 1 and 36.

Descend gradually over steep NW. slope of broken mountainous land, through scattered undergrowth.

U. S. GOVERNMENT PRINTING OFFICE: 1931 6—8156

Chains	
6.30	Head of rocky gulch, 110 ft. below cor., drains NE.; outcroppings of coal, 5 ft. thick, found along each side of bottom of gulch; ascend steep E. slope over ledges.
12.60	Spur, 210 ft. above head of gulch, projects NE., 15.00 chs. dist. to end; descend abrupt NW. slope.
24.70	Gulch, 300 ft. below spur, drains NE., 1.50 chs. dist. to junction with gulch which drains E. from the W.; thence ascend gradually along S. side of main gulch from the W.
37.70	Bottom of main gulch, 70 ft. above last gulch, drains N. 80° E.; ascent abruptly over steep broken S. slope.
40.00	On abrupt S. slope, 100 ft. above gulch.
	Set an iron post, 3 ft. long, 1 in. diam., 10 ins. in the ground to solid rock and in a mound of stone, for ¼ sec. cor., with brass cap marked

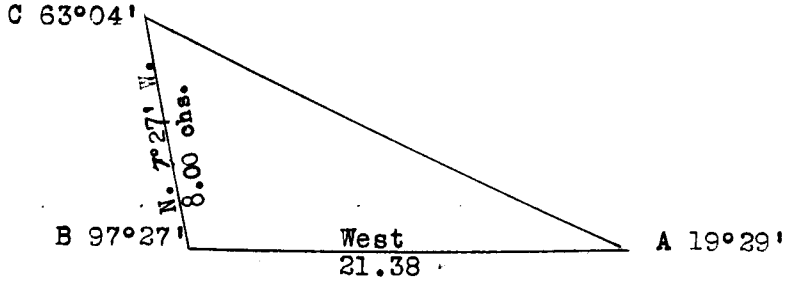
$$\frac{1}{4}\ \frac{S36}{S1}$$

1934

Deposit a sandstone 10 x 10 x 10 ins., at base of post, marked with a cross (X).

Thence ascend abruptly over steep SE. slope.

59.41 Spur, 345 ft. above the ¼ sec. cor., projects SW.; the line to the W. of this point follows along the broken S. face of high sandstone ledges over which it is impossible to chain, I therefore determine the distance by triangulation as follows. Erect flag "A" at this point and flag "B" on line to the W. From "B", survey base line "BC", N.7°27'W., 8.00 chs. dist. From "C", "AB" subtends an angle of 63°04'. From "A", "BC" subtends an angle of 19°29'. Base line double chained and all angles checked by repetition. Vertical angle from "A" to "B" is minus 3°03'.



Distance on line	59.41 chs.
Distance by triangulation	21.38 chs.
	80.79 chs.
Distance by return measurement	0.79 chs.
	80.00 chs.

80.00 On steep E. slope of spur, 20 ft. below top, and 95 ft. below last spur.

Set an iron post, 3 ft. long, 2 ins. diam., 20 ins. in the ground to solid rock and in a mound of stone to top, for cor. of secs. 1, 2, 35, and 36, with brass cap marked

T41S	R4E
S35	S36
S2	S1

T42S
1934

U. S. GOVERNMENT PRINTING OFFICE: 1931 6—8155

Chains	
	Deposit a sandstone, 10 x 10 x 9 ins., at base of post, marked with a cross (X).
	Land, broken and mountainous, with a general southerly and northerly exposure to deep gulch draining to the E.
	Soil, shallow blue clay and shale; 4th rate. Shale and sandstone formation.
	Undergrowth, shadscale, blackbrush, and Brigham tea.
	No timber.
	Poor grazing land.
	West, bet. secs. 2 and 35.
	Ascend abrupt E. slope of spur, through scattered undergrowth.
0.79	To point B of triangulation as shown on line bet. secs. 1 and 36, at top of spur, 20 ft. above cor. and 75 ft. below point A of triangulation, projects S.; thence ascend gradually along broken S. slope of high main ridge to the N.
31.80	Ridge, 375 ft. above spur, bears N. 75° E. and S. 75° W.; thence ascend gradually along broken NE. slope of ridge.
31.85	From this point, a hole from which smoke arises from an underground fire of coal, bears S. 12°30' E., about 30.00 chains dist.
38.30	Spur, 50 ft. above top of ridge, projects N.; descend gradually over broken NW. slope.
40.00	On broken NW. slope, 40 ft. below top of spur.
	Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground, for ¼ sec. cor., with brass cap marked ¼ S35 / S2 1934 raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor.
	Thence ascend gradually along broken NE. slope of high mesa top to the W.
66.10	Top of E. rim of mesa, 140 ft. above the ¼ sec. cor., bears N. 70° W. and S. 70° E.; thence over rolling top of mesa.
80.00	On rolling top of mesa.
	Set an iron post, 3 ft. long, 2 ins. diam., 27 ins. in the ground, for cor. of secs. 2, 3, 34, and 35, with brass cap marked T41S | R4E S34 | S35 S3 | S2 T42S 1934

Chains	
	Deposit a sandstone, 18 x 12 x 3 ins., at base of post, marked with a cross (X).
	No other suitable accessories available.
	Land, broken and mountainous with a general easterly exposure and drainage on E. portion of mile; rolling top of high mesa on W. portion.
	Soil, E. portion of mile is shallow blue clay and shale; 4th rate; W. portion is shallow loose red sand; 3rd rate. Sandstone and shale formation.
	Undergrowth, E. portion of mile is scattered shadscale, and blackbrush; W. portion of mile is dense blackbrush.
	No timber.
	Poor grazing land.
	West, bet. secs. 3 and 34.
	Over rolling top of high mesa, through dense undergrowth of blackbrush.
13.00	Low sandy rise, 30 ft. high, bears NW. and SE.; descend gradual NW. slope.
40.00	On gradual NW. slope, 40 ft. below top of rise.
	Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground, for ¼ sec. cor., with brass cap marked
	¼ S34 / S3 / 1934
	Deposit a sandstone, 8 x 8 x 6 ins., at base of post, marked with a cross (X).
	No other suitable accessories available.
73.50	Sandstone ledge, 10 ft. high, faces W. and bears N. and S.
80.00	On gradual W. slope of top of mesa, near W. rim, 80 ft. below the ¼ sec. cor.
	Set an iron post, 3 ft. long, 2 ins. diam., 12 ins. in the ground to solid rock and in a mound of stone to top, for cor. of secs. 3, 4, 33, and 34, with brass cap marked
	T41S | R4E S33 | S34 S4 | S3 T42S 1934
	Deposit a sandstone, 10 x 10 x 10 ins., at base of post, marked with a cross (X).
	Land, rolling top of mesa.
	Soil, deep loose sand; 3rd rate. Sandstone formation.

U. S. GOVERNMENT PRINTING OFFICE: 1931 6—8155

Chains

Undergrowth, dense blackbrush and scattered bitter brush.

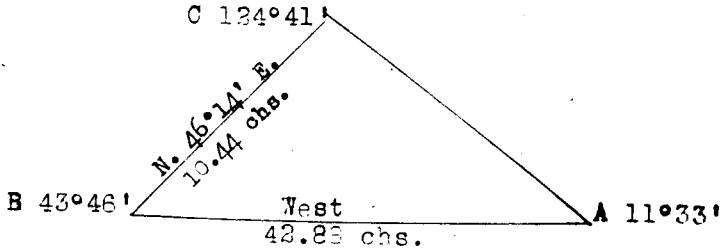
No timber.

Poor grazing land.

West, bet. secs. 4 and 33.

Over rolling top of mesa through dense undergrowth of black brush and scattered bitter brush.

1.77 Top of W. breaks of mesa, bears N. and S.
High vertical sandstone ledges make chaining to the W. of this point impracticable, I therefore determine the distance by triangulation as follows: Erect flag A at the 1.77 chs. point, and flag B on line W. From B, survey base line BC, N. 46°14' E., 10.44 chs. dist. and erect flag C. From C, AB subtends an angle of 124°41'. From A, BC subtends an angle of 11°33'. All angles checked by repetition and base line double chained. Vertical angle from A to B is minus 7°15'.



Distance on line	1.77 chs.
Distance by triangulation	42.88 chs.
	44.65 chs.
Distance by return measurement	4.65 chs.
	40.00 chs.

23.00 Approximate distance; bottom of deep sandstone and shale gulch, 680 ft. below W. rim of mesa, drains SW.; ascend abrupt SE. slope of inaccessible ledges.

40.00 On ledge SE. slope, 320 ft. above gulch.

Set an iron post, 3 ft. long, 1 in. diam., 10 ins. in the ground to solid rock and in a mound of stone, for ¼ sec. cor., with brass cap marked

¼ S33 / S4

1934

Deposit a sandstone, 18 x 12 x 12 ins., at base of post, marked with a cross (X).

44.65 To point B of triangulation, on top of sharp spur, 90 ft. above the ¼ sec. cor., projects SW., 5.00 chs. dist., thence N. 65° W.; descend gradually along broken abrupt N. slope.

60.70 Top of S. slope of knoll on same spur, 60 ft. below last top, projects W.; descend gradually along broken top of spur.

U. S. GOVERNMENT PRINTING OFFICE: 1931 6—8155

Chains	
73.30	Leave top of spur, projects S. 80° W. from the E.; thence descend abrupt W. slope over ledges.
80.00	On top of SE. rim of boxed gulch, 410 ft. below top of spur, bears NE. and SW.

Set an iron post, 3 ft. long, 2 ins. diam., 10 ins. in the ground to solid rock and in a mound of stone to top, for cor. of secs. 4, 5, 32, and 33, with brass cap marked

T41S S32	R4E S33
S5	S4

T42S

1934

Deposit a sandstone, 10 x 8 x 8 ins., at base of post, marked with a cross (X).

Land, broken W. breaks of mesa, with a general westerly exposure and drainage.

Soil, shallow blue clay and rock; 4th rate. Sandstone formation.

Undergrowth, shadscale, black and bitter brush.

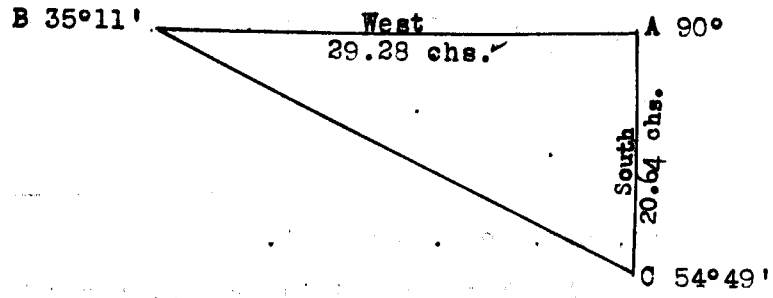
No timber.

Poor grazing land.

West, bet. secs. 5 and 32.

Over broken mountainous land through scattered undergrowth; descend abruptly over SE. rim of gulch.

1.50	Bottom of boxed gulch, 100 ft. deep, drains SW.; ascend gradually over broken S. face of ledges.
13.86	Blue shale spur, 100 ft. above gulch, projects SW., 3.00 chs. dist., thence W. The line to the W. of this point passes over the inaccessible E. and W. breaks of Smoky Hollow, over which I am unable to chain, I therefore determine the distance by triangulation as follows. Erect flag A at the 13.86 chs. point, and flag B on line W. From A, survey base line AC, South, 20.64 chs. dist. and erect flag C. From C, AB subtends an angle of 54°49'. From B, AC subtends an angle of 35°11'. All angles checked by repetition and base line double chained. Vertical angle from A to B is plus 15°04'.



Distance on line	13.86 chs.
Distance by triangulation	29.28 chs.
	43.14 chs.

Chains	
22.00	Aproximate distance; bottom of Smoky Hollow, 150 ft. below spur, drains S. 30° W.; ascend abrupt E. slope over inaccessible ledges which form the W. breaks of hollow.
40.00	True point for the ¼ sec. cor. secs. 5 and 32, falls on E. face of ledges, where it is impracticable to reach the cor. point.
43.14	To point B of triangulation, at top of vertical ledge, 100 ft. high and 670 ft. above bottom of Smoky Hollow, bears N. 30° E. and S. 30° W.
	Set an iron post, 3 ft. long, 1 in. diam., 6 ins. in the ground to solid rock and in a mound of stone to top, for witness cor. to the ¼ sec. cor. secs. 5 and 32, with brass cap marked
	¼ S32 / S5 WC 1934
	Deposit a sandstone, 10 x 10 x 8 ins., at base of post, marked with a cross (X).
	Thence ascend gradually over broken NE. slope.
76.00	Head of gulch, drains N. 80° E.; continue ascent.
80.00	On top of E. rim of saddle in divide ridge bet. Smoky Hollow and Warm Creek, 300 ft. above the witness cor. to the ¼ sec. cor., bears N. and S.
	Set an iron post, 3 ft. long, 2 ins. diam., 10 ins. in the ground to solid rock and in a mound of stone to top, for cor. of secs. 5, 6, 31, and 32, with brass cap marked
	T41S R4E S31 S32 S6 S5 T42S 1934
	Deposit a sandstone, 8 x 8 x 8 ins., at base of post, marked with a cross (X).
	Land, broken E. and W. breaks of Smoky Hollow, with a general westerly and easterly exposure, and drainage south.
	Soil, shallow blue clay and shale; 4th rate. Sandstone and shale formation.
	Undergrowth, scattered blackbrush, shadscale, sliver leaf, and bitter brush.
	Poor grazing land.
	No timber.
	West, bet. secs. 6 and 31.
	Across level top of divide ridge, through scattered undergrowth.
7.00	Top of W. rim of divide bet. Smoky Hollow and Warm Creek, bears N. and S.; descend abrupt NW. slope.

Chains	
12.20	Head of deep rocky gulch, 75 ft. below ridge, drains S. 55° W.; ascend abrupt SW. slope over ledges.
16.80	Top of ascent on SW. slope, 40 ft. above head of gulch, bears N. and S.; thence descend gradually along SW. slope.
36.80	Sharp spur, 200 ft. below top of ascent, projects S. 80° W.; descend gradually along ledgy NW. slope.
40.00	On broken NW. slope of spur, 75 ft. below top.
	Set an iron post, 3 ft. long, 1 in. diam., 20 ins. in the ground, to solid rock and in a mound of stone to top, for ¼ sec. cor., with brass cap marked
	¼ S31 / S6 1934
	Deposit a sandstone, 12 x 12 x 6 ins., at base of post, marked with a cross (X).
64.50	Head of rocky gulch, 400 ft. below the ¼ sec. cor., drains N.; ascend abrupt NE. slope over ledges.
75.00	Spur, 150 ft. above head of gulch, projects N. 30° W.; descend abrupt NW. slope.
77.68	On steep NW. slope, 85 ft. below spur.
	Intersect the E. bdy. of T. 42 S., R. 3 E., South, 4.69 chs. dist. from the original cor. of Tps. 41 and 42 S., Rs. 3 and 4 E., which is an iron post, 3 ins. diam., set, marked and witnessed as described in the official records of the survey of T. 42 S., R. 3 E.
	As this cor. becomes the cor. of Tps. 41 and 42 S., R. 3 E. only, I efface the marks on the cor. that pertain to Tps. 41 and 42 S., R. 4 E.
	At point of intersect; no iron post eing available:
	Set a hard red sandstone, 36 x 16 x 16 ins., 10 ins. in the ground to solid rock and in a mound of stone to top, for closing cor. of Tps. 41 and 42 S., R. 4 E., marked T41S R4E S31 on NE. face and T42S R4E S6 CC on SE. face, and 6 notches on E. edge.
	Deposit a sandstone, 8 x 8 x 6 ins., at base of stone, marked with a cross (X).
	Land, broken and mountainous, with a general northwesterly and southwesterly exposure and drainage.
	Soil, shallow blue clay and shale; 4th rate. Sandstone and shale formation.
	Undergrowth, scattered blackbrush, shadscale, silver leaf, and bitter brush.
	No timber.
	Poor grazing land.

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Chains	
	From the cor. of secs. 1, 2, 35, and 36, on the S. bdy. of the township, which is an iron post, 2 ins. diam., set, marked and witnessed as described in the official records of the survey T. 43 S., R. 4 E. of this group.
	N. 0°01' W., bet. secs. 35 and 36.
	Ascend general SW. slope of broken bench land, through scattered undergrowth.
3.00	Small ravine, 15 ft. deep, drains SW.
6.00	Top of white sandstone ledge on N. edge of ravine, 15 ft. high, bears E. and W.
26.30	Top of low ridge, 70 ft. above sec. cor., bears N. 70° E. and SW.; descend gradually along W. slope.
33.30	Top of S. rim of ledgy ravine, bears NE. and SW.
39.80	Bottom of ravine, 35 ft. deep, drains N. 80° W.
40.00	Near bottom of ravine.
	Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground, for ¼ sec. cor., with brass cap marked

¼

S35 | S36

1917

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

45.70	Top of sandstone spur, 30 ft. above bottom of ravine, projects W., 3.00 chs. dist. to end.
48.00	Boxed gulch, 60 ft. deep, and 2.00 chs. wide, drains SW.
80.00	On gradual NW. slope.
	Set an iron post, 3 ft. long, 2 ins. diam., 27 ins. in the ground, for cor. of secs. 25, 26, 35, and 36, with brass cap marked

T42S	R4E
S26	S25
S35	S36

1917

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

Land, broken and rolling bench, with a general southwesterly exposure and drainage.

Soil, shallow sand and clay, mixed with gravel; 3rd rate. Sandstone formation.

Undergrowth, short sagebrush, shadscale, Brigham tea, and weeds.

No timber.

Fair grazing land.

Chains	
	East, on random line bet. secs. 25 and 36.
40.00	Set temp. ¼ sec. cor.
79.88	Intersect the E. bdy. of the township, 14 lks. N. of the cor. of secs. 25, 30, 31, and 36, heretofore described.
	Thence:
	N. 89°54' W., on true line, bet. secs. 25 and 36.
	Over gradual W. slope of broken bench land through scattered undergrowth.
13.00	Stock trail, bears NW. and SE.
16.00	Gulch, 60 ft. deep, drains S. 60° W.
39.94	On gradual W. slope.
	Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground, for ¼ sec. cor., with brass cap marked ¼ S25 / S36 1917 raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor.
	Continue over W. slope of broken bench land.
79.88	The cor. of secs. 25, 26, 35, and 36.
	Land, broken bench, with a general southwesterly exposure and drainage.
	Soil, deep blue clay mixed with sand and gravel; 3rd rate. Sandstone and shale formation.
	Undergrowth, shadscale, Brigham tea, and weeds.
	No timber.
	Fair grazing land.
	N. 0°01' W., bet. secs. 25 and 26.
	Over broken bench land through scattered undergrowth.
6.00	Wash, 20 lks. wide, 1 ft. deep, drains SW.
8.30	White sandstone ledge, 15 ft. high, bears NE. and SW.
14.00	Wash, 15 lks. wide, 2 ft. deep, drains W.
23.00	Wash, 10 lks. wide, 3 ft. deep, drains S. 60° W., 2.00 chs. dist. to head of boxed gulch.
35.90	Low spur, projects NW.
40.00	On gradual NE. slope.
	Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground, for ¼ sec. cor., with brass cap marked

Chains	
	S26 | S25 1917 raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.
49.40	Wash, 6 lks. wide, 5 ft. deep, drains W.
52.40	Stock trail at edge of blue clay formation, bears NW. and SE.
72.00	Wash, 10 lks. wide, 6 ft. deep, drains S. 60° W.; enter broken clay hills, bears E. and W.; thence ascend broken S. slope.
80.00	On gradual W. slope in broken clay hills, 75 ft. above base of ascent.
	Set an iron post, 3 ft. long, 2 ins. diam., 27 ins. in the ground, for cor. of secs. 23, 24, 25, and 26, with brass cap marked

T42S | R4E	
S23	S24
S26	S25

1917

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

Land, broken, with a general westerly and southwesterly exposure and drainage.

Soil, deep blue clay with shale and sandstone; 3rd rate. Sandstone and shale formation.

Undergrowth, scattered shadscale, greasewood, and weeds.

No timber.

Fair grazing land.

S. 89°54' E., on random line, bet. secs. 24 and 25.

40.00	Set temp. ¼ sec. cor.
79.86	Intersect the E. bdy. of the township, 9 lks. N. of the cor. of secs. 19, 24, 25, and 30, heretofore described.

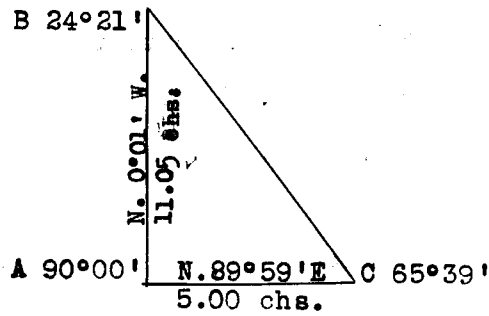
Thence:

N. 89°50' W., on true line, bet. secs. 24 and 25.

Ascend gradual E. slope of broken land, through scattered undergrowth.

7.00	Wash, 30 lks. wide, 7 ft. deep, drains S. 20° W.
39.93	On top of clay ridge, bears N. and S., 225 ft. above sec. cor.
	Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground, for ¼ sec. cor., with brass cap marked

Chains	
	S24 / ¼ / S25
	1917
	raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor.
	From this cor., the top of a high clay butte, bears S. 9° W., about 15.00 chs. dist.
	Thence descend abruptly over broken W. slope.
74.00	Wash, 6 lks. wide, 5 ft. deep, 215 ft. below the ¼ sec. cor., drains SW.
79.86	The cor. of secs. 23, 24, 25, and 26.
	Land, broken clay hills, with a general easterly and westerly exposure and drainage.
	Soil, deep loose clay; 3rd rate. Shale formation.
	Undergrowth, scattered shadscale.
	No timber.
	Poor grazing land.
	N. 0°01' W., bet. secs. 23 and 24.
	Ascend gradually along broken W. slope, through very scattered undergrowth.
20.60	Head of gulch, 15 ft. deep, drains SW.
27.14	Top of S. rim of gulch, bears E. and W., over which chaining is impracticable, I therefore determine the distance across the gulch by triangulation as follows. Erect flag A at this point and flag B on line to the N. From A, survey base line AC, N. 89°59' E., 5.00 chs. dist., and erect flag C. From C, AB subtends an angle of 65°39'. From B, AC subtends an angle of 24°21'. All angles checked by repetition and base line double chained.



Distance on line	27.14 chs.
Distance by triangulation	11.05 chs.
	38.19 chs.

32.00	Approximate distance; bottom of gulch, 300 ft. deep, drains SW.
38.19	Point B of triangulation at top of N. rim of gulch, bears NE. and SW.
40.00	On SW. slope, 275 ft. above sec. cor.

U. S. GOVERNMENT PRINTING OFFICE: 1901 6—6155

Chains	
	Set an iron post, 3 ft. long, 1 in. diam., 6 ins. in the ground to solid rock and in a mound of stone to top, for ¼ sec. cor., with brass cap marked

¼
S23 | S24
1917

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

	Continue along general W. slope of blue clay hills.
62.70	Top of S. rim of gulch, bears NE. and SW.; descend abrupt NW. slope.
67.25	Bottom of gulch, 150 ft. deep, drains W.; ascend abrupt SE. slope.
74.60	Top of N. rim of gulch, bears NE. and SW.; continue along W. slope.
80.00	On W. slope of surfacerock, 275 ft. above the ¼ sec. cor., mark a cross (X), over which:
	Set an iron post, 3 ft. long, 2 ins. diam., in a large mound of stone, for cor. of secs. 13, 14, 23, and 24, with brass cap marked

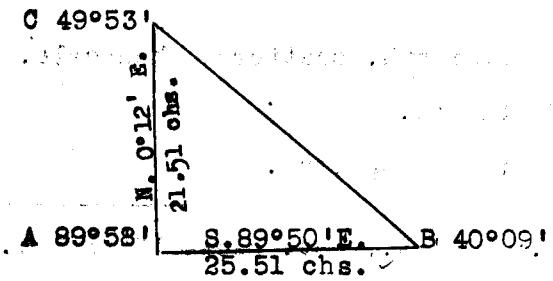
T42S S14	R4E S13
S23	S24

1917

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

	Land, broken clay hills, with a general westerly exposure and drainage.
	Soil, dark blue clay and sandstone; 4th rate. Sandstone formation.
	Undergrowth, scattered shadscale and Brigham tea.
	No timber.
	Poor grazing land.

	S. 89°50' E., on random line, bet. secs. 13 and 24.
15.00	Base of abrupt ascent over W. face of inaccessible ledges over which I triangulate as follows. Erect flag A at the cor. of secs. 13, 14, 23, and 24, and flag B on line to the E. at top of ledges. From A, survey base line AC, N. 0°12' E., 21.51 chs. dist. and erect flag C. From C, AB subtends an angle of 49°53'. From B, AC subtends an angle of 40°09'. Vertical angle from A to B, is plus 21°. All angles checked by repetition and base line double chained.

Chains	
	
	Distance by triangulation 25.51 chs.
25.51	To point B of triangulation.
40.00	Set temp. ¼ sec. cor.
79.90	Intersect the E. bdy. of the township, 5 lks. S. of the cor. secs. 13, 18, 19, and 24, heretofore described.
	Thence:
	N. 89°52' W., on true line, bet. secs. 13 and 24.
	Over broken S. slope of foot hills of Smoky Mountain, through scattered undergrowth.
4.40	Draw, 40 ft. deep, drains S.
7.30	Draw, 40 ft. deep, drains S. 30° E.
22.40	Gulch at base of abrupt ascent over steep ledgy E. slope of sharp spur from Smoky Mountain, drains SE.
39.95	Near top of high spur, 590 ft. above gulch, mark a cross (X), on the surfacerock, over which:
	Set an iron post, 3 ft. long, 1 in. diam., in a large mound of stone, for ¼ sec. cor., with brass cap marked.
	¼ S13 / S24
	1917
	No other suitable accessories available.
41.10	Top of high rocky spur, 45 ft. above the ¼ sec. cor., projects SE., about 20.00 chs. dist. to end; descend gradually over ledgy SW. slope.
47.40	Head of rocky draw, 40 ft. below spur, drains SE.; ascend gradually along broken ledgy S. slope.
54.39	Top of high sharp rocky ridge, 80 ft. above head of draw, bears N. and S. Low saddle in ridge, bears S., about 10.00 chs. dist. Descend abrupt W. slope over inaccessible sandstone ledges and shale breaks facing W.
65.00	Base of abrupt descent, bears N. and S.; thence descend gradually over broken W. slope of bench land.
79.90	The cor. of secs. 13, 14, 23, and 24, 650 ft. below ridge.
	Land, broken and mountainous, with a general southeasterly and westerly exposure and drainage.
	Soil, shallow dark blue clay and shale; 4th rate. Sandstone formation.

U. S. GOVERNMENT PRINTING OFFICE: 1924 6—8155

Chains

Undergrowth, scattered shadscale, Brigham tea, and [illegible] to top, to

No timber.

Poor grazing land.

N. 0°01' W., bet. secs. 13 and 14.

Ascend gradually along broken W. slope of foot hills of Smoky Mountain, through scattered undergrowth.

10.50 Spur, 45 ft. above cor., projects W.; descend steep rocky N. slope.

13.80 Gulch, 150 ft. below spur, drains N. 60° W., ascend steep ledgy S. slope.

21.60 Spur, 40 ft. above gulch, projects W.; descend broken N. slope.

29.50 Gulch, 140 ft. below spur, drains W.; ascend abrupt S. slope.

35.50 Spur, 75 ft. above gulch, projects W.; descend gradual N. slope.

40.00 On gradual N. slope, 60 ft. below spur.

Set an iron post, 3 ft. long, 1 in. diam., 20 ins. in the ground to solid rock and in a mound of stone to top, for ¼ sec. cor., with brass cap marked

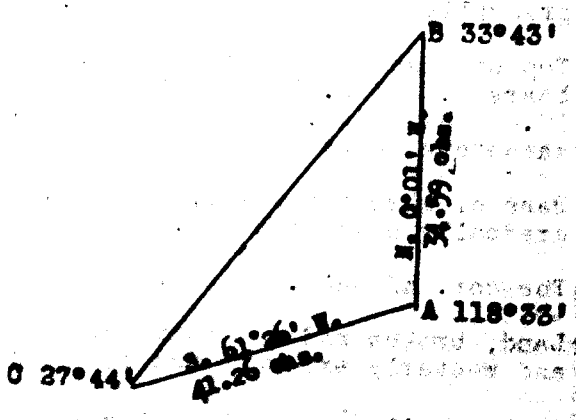
¼

S14 | S13

1933

Deposit a sandstone, 10 x 10 x 10 ins., at base of post, marked with a cross (X).

40.00 Gulch, 75 ft. below the ¼ sec. cor., drains SW.; The line to the N. of this point, ascends the steep S. face of broken inaccessible sandstone ledges over which I am unable to chain, I therefore determine the distance by triangulation as follows. Erect flag A at the ¼ sec. cor., and flag B on line to the N. From A, survey base line AC, S. 81°28' W., 41.26 chs. dist. and erect flag C. From C, AB subtends an angle of 27°44'. From B, AC subtends an angle of 33°43'. Vertical angle from A to B is plus 18°30'. All angles checked by repetition and base line double chai



Chains	
	Distance on line 40.00 chs. Distance by triangulation 34.59 chs. 74.59 chs.
74.59	To point B. of triangulation, on steep S. slope of ridge, near top; thence ascend steep S. slope of ridge.
77.70	Top of sharp sandstone ridge, 960 ft. above gulch, bears S. 55° W., about 1½ miles dist. to bench, and N. 65° E., 3.00 chs. dist., thence N. 30° E., about 18.00 chs. dist. to timbered mesa; descend abruptly over broken NW. slope of ridge.
80.00	On broken NW. slope, 75 ft. below ridge.
	Set an iron post, 3 ft. long, 2 ins. diam., 6 ins. in the ground to solid rock and in a mound of stone to top, for cor. of secs. 11, 12, 13, and 14, with brass cap marked

T42S	R4E
S11	S12
S14	S13

1934

Deposit a sandstone, 12 x 10 x 10 ins., at base of post, marked with a cross (X).

Land, broken and mountainous, with a general westerly and southerly exposure and drainage.

Soil, shallow blue clay and shale; 4th rate. Sandstone and shale formation.

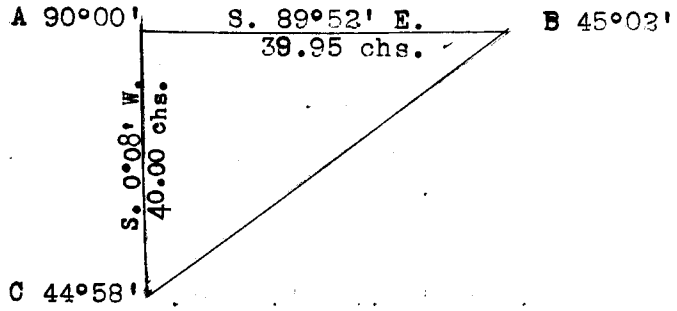
Undergrowth, scattered shadscale, Brigham tea and weeds.

No timber.

Poor grazing land.

S. 89°52' E., on random line, bet. secs. 12 and 13.

3.45 The line to the E. of this point, passes over the broken S. breaks of timbered mesa to the N., over which it is impossible to chain, I therefore determine the distance by triangulation as follows. Erect flag A at the cor. of secs. 11, 12, 13, and 14, and flag B on line to the E. From A, I erect flag C at a point, S. 0°08' W., 40.00 chs. dist. from A. From C, AB subtends an angle of 44°58', and from B, AC subtends an angle of 45°02'. All angles checked by repetition, and base line checked by triangulation. Vertical angle from a point, 3.45 chs. to the E. of A, to point B, is minus 6°50'.



Distance by triangulation, 39.95 chs.

Chains	
39.95	To point B. of triangulation.
40.00	Set temp. ¼ sec. cor.
79.90	Intersect the E. bdy. of the township, 19 lks. S. of the cor. of secs. 7, 12, 13, and 18, heretofore described.
	Thence:
	West, on true line, bet. secs. 12 and 13.
	Ascend abrupt E. breaks of timbered mesa over nearly inaccessible ledges, through scattered undergrowth.
10.00	Top of E. rim of timbered mesa, 50 ft. above cor., bears N. and S.; thence over rolling top of mesa, through dense scrub juniper timber.
26.30	Top of W. rim of mesa, bears NW., and SE., about 5.00 chs. dist., thence SW.; leave timber, bears with rim, and descend abruptly over ledgy SW. breaks of mesa.
39.95	On ledgy SW. slope of mesa, 335 ft. below top.
	Set an iron post, 3 ft. long, 1 in. diam., 20 ins. in the ground to solid rock and in a mound of stone to top, for ¼ sec. cor., with brass cap marked
	¼ S12 / S13
	1934
	Deposit a sandstone, 12 x 10 x 8 ins., at base of post, marked with a cross (X).
	The line to the W. of this cor., ascendsover broken S. face of inaccessible ledges and shale breaks over which it is impossible to chain.
76.45	Top of sharp sandstone ridge, 390 ft. above the ¼ sec. cor., bears N. 30° E., about 16.00 chs. to timbered mesa, and S. 30° W., 2.00 chs., thence S. 65° W.; descend abruptly over ledgy NW. slope.
79.90	The cor. of secs. 11, 12, 13, and 14, 175 ft. below top of ridge.
	Land, broken and mountainous and rolling top of mesa, with a general easterly and westerly exposure and drainage.
	Soil, on the slopes of mesa is a shallow blue clay and shale; 4th rate; on top of mesa is a shallow loose sand; 3rd rate. Sandstone and shale formation.
	Undergrowth, scattered shadscale, Brigham tea, and weed.
	Timber, dense scrub juniper on top of mesa; no timber on breaks of mesa.
	Good grazing land on top of mesa; poor grazing on breaks of mesa.
	N. 0°01' W., bet. secs. 11 and 12.

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Chains	
	Ascend gradually along ledgy W. breaks of timbered mesa to the E., through scattered undergrowth.
26.00	Top of sharp sandstone spur, 430 ft. above sec. cor., projects S. 80° W., and bears N. 80° E., about 6.00 chs. dist. to timbered mesa; descend gradually along broken W. slope.
40.00	At head of gulch on steep W. slope, 120 ft. below spur, drains W. Set an iron post, 3 ft. long, 1 in. diam., 15 ins. in the ground to solid rock and in a mound of stone to top, for ¼ sec. cor., with brass cap marked ¼ S11 | S12 1934 Deposit a sandstone, 12 x 12 x 10 ins., at base of post, marked with a cross (X).
	Thence ascend gradually along steep W. slope, about 5.00 chs. W. of top of timbered mesa.
54.00	Top of sharp sandstone ridge, 85 ft. above the ¼ sec. cor., bears N. 30° W., and S. 30° E., about 5.00 chs. to the NW. point of timbered mesa; descend abrupt NE. slope over ledges.
69.00	Spur, 250 ft. below ridge, projects NE., about 30.00 chs. dist.; thence descend abrupt NW. slope.
77.50	Gulch, 200 ft. below spur, drains NE.; ascend gradual SE. slope.
80.00	On small spur, projects NE., 3.00 chs. dist. to end, 20 ft. above gulch. Set an iron post, 3 ft. long, 2 ins. diam., 20 ins. in the ground to solid rock and in a mound of stone to top, for cor. of secs. 1, 2, 11, and 12, with brass cap marked T42S | R4E S2 | S1 S11 | S12 1934 Deposit a sandstone, 16 x 12 x 10 ins., at base of post, marked with a cross (X).
	Land, broken and mountainous with a general westerly and northeasterly exposure and drainage.
	Soil, shallow blue clay; 4th rate. Sandstone and shale formation.
	Undergrowth, scattered shadscale, Brigham tea, and weeds.
	No timber.
	Poor grazing land.

Chains	
	East, on random line, bet. secs. 1 and 12.
40.00	Set temp. ¼ sec. cor.
79.96	Intersect the cor. of secs. 1, 6, 7, and 12, on the E. bdy. of the township, heretofore described.
	Thence:
	West, on true line, bet. secs. 1 and 12.
	Ascend abrupt SE. slope of broken mountainous land, through scattered undergrowth.
6.00	Spur, 190 ft. above cor., projects N.; descend abrupt W. slope.
18.00	Gulch, 390 ft. below spur, drains N. 30° W.; ascend abrupt E. slope.
32.80	Top of high spur, 300 ft. above gulch, projects N.; descend abrupt W. slope.
39.98	On steep W. slope, 250 ft. below spur.
	Set an iron post, 3 ft. long, 1 in. diam., 15 ins. in the ground to solid rock and in a mound of stone, to top, for ¼ sec. cor., with brass cap marked
	¼ S1 / S12 1934
	Deposit a sandstone, 8 x 8 x 6 ins., at base of post, marked with a cross (X).
	Continue abrupt descent over W. slope.
46.50	Gulch, 75 ft. below the ¼ sec. cor., drains N. 30° W.; ascend gradual E. slope.
55.20	Spur, 150 ft. above gulch, projects N.; descend gradual W. slope.
64.00	Gulch, 70 ft. below spur, drains N. 30° E., about 28.00 chs. dist. to junction with main gulch which drains NE.; ascend abrupt NE. slope.
70.70	Spur, 120 ft. above gulch, projects NE., about 20.00 chs. dist. to end.; descend abrupt ledgy NW. slope.
78.50	Gulch, 50 ft. below spur, drains NE.; ascend steep SE. slope.
79.96	The cor. of secs. 1, 2, 11, and 12, 60 ft. above gulch.
	Land, broken and mountainous, with a general northeasterly exposure and drainage.
	Soil, shallow blue clay and shale; 4th rate. Sandstone and shale formation.
	Undergrowth, scattered shadscale and weeds.
	No timber.
	Poor grazing land.

Chains	
	N. 0° 01' W., on random line, bet. secs. 1 and 2.
40.00	Set temp. ¼ sec. cor.
80.06	Intersect the N. bdy. of the township, 2 lks. W. of the cor. of secs. 1, 2, 35, and 36, heretofore described.
	Thence:
	South, on true line, bet. secs. 1 and 2.
	Descend abrupt ledgy SE. slope of mountainous land, through scattered undergrowth.
8.00	Draw, 160 ft. below cor., drains S. 80° E.; ascend gradual N. slope.
11.50	Small spur, 25 ft. above draw, projects N. 15° E., about 3.00 chs. dist. to wnd; descend gradual SE. slope.
16.10	Draw, 10 ft. below spur, drains N. 15° E.; ascend gradually over rocky NW. slope.
40.06	On steep rocky NW. slope, 250 ft. above draw.
	Set an iron post, 3 ft. long, 1 in. diam., 20 ins. in the ground to solid rock and in a mound of stone to top, for ¼ sec. cor., with brass cap marked
	¼ S2 | S1 1934
	Deposit a sandstone, 8 x 8 x 6 ins., at base of post, marked with a cross (X).
	Thence ascend abruptly over rocky NW. slope.
46.50	Ridge, 190 ft. above the ¼ sec. cor., bears N. 60° E. and S. 60° W.; descend abrupt rocky SE. slope.
53.00	Head of draw, 20 ft. below ridge, drains E.; ascend steep rocky NE. slope.
59.40	Spur, 30 ft. above head of draw, projects S. 50° E.; descend gradually over broken SW. slope.
64.00	Draw, 60 ft. below spur, drains S. 60° E.; ascend abrupt rocky NE. slope.
68.90	Spur, 50 ft. above draw, projects E.; descend rocky SE. slope.
78.90	Draw, 160 ft. below spur, drains E.; ascend abrupt N. slope.
80.06	The cor. of secs. 1, 2, 11, and 12, 50 ft. above draw.
	Land, broken and mountainous, with a general easterly exposure and drainage.
	Soil, shallow blue clay and shale; 4th rate. Sandstone and shale formation.
	Undergrowth, scattered shadscale, oose, Brigham tea, and weeds
	No timber.
	Poor grazing land.

Chains

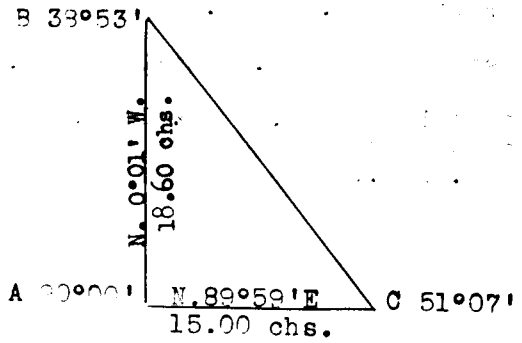
From the cor. of secs. 2, 3, 34, and 35, on the S. bdy. of the township, which is an iron post, 2 ins. diam., set, marked and witnessed as described in the official records of the survey of T. 43 S., R. 4 E. of this group.

N. 0°01' W., bet. secs. 34 and 35.

Ascend gradual W. slope of rolling and broken bench land through scattered undergrowth.

5.55 Small ravine, 6 ft. deep, drains W., and heads southeasterly.

17.90 Top of nearly perpendicular sandstone wall, 350 ft. high, bears N. 70° E. and S. 70° W., which forms the S. rim of box canyon. To cross canyon, I triangulate as follows. Erect flag A at this point and flag B on line to the N. From A, survey base line AC, N. 89°59' E., 15.00 chs. dist. and erect flag C. From C, AB subtends an angle of 51°07'. From B, AC subtends an angle of 38°53'. All angles checked by repetition and base line double chained.



Distance on line	17.90 chs.
Distance by triangulation	18.60 chs.
	36.50 chs.

37.0 Approximate distance; bottom of box canyon, 350 ft. deep, drains S. 70° W.

36.50 To point B of triangulation at top of N. rim of canyon, bears N. 70° E. and SW.; descend gradual N. slope.

38.71 On N. slope of surfacerock.

Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in a crevice in the surfacerock, for witness cor. to the ¼ sec. cor. secs. 34 and 35, with brass cap marked

¼
W | C
S34 | S35
1917

Raise a mound of stone, 3 ft. base, 1½ ft. high, W. of cor.

40.00 True point for the ¼ sec. cor. falls on sloping rim of draw, bears NE. and W., where it is impracticable to set a permanent cor.

42.00 Bottom of draw, 30 ft. deep, drains W., 2.00 chs. dist. to E. rim of boxed canyon, bears N. and S.; thence over W. breaks of draw.

43.90 Top of N. rim of draw, bears E. and W.; thence over bench land.

Chains	
76.90	Perpendicular sandstone wall, 300 ft. high, bears N. 70° E. and S. 70° W., which forms the S. rim of canyon; descends abruptly to bottom of canyon.
80.00	True point for the cor. of secs. 26, 27, 34, and 35, falls in bottom of boxed canyon, drains S. 30° W., and boxes 3.00 chs. to the E. of line, where it is impracticable to set a permanent cor.
81.47	On sloping N. wall of canyon, bears E. and SW.; mark a cross (X) on the surfacerock, over which:
	Set an iron post, 3 ft. long, 2 ins. diam., in a large mound of stone, for witness cor. to the cor. of secs. 26, 27, 34, and 35, with brass cap marked
	T42S | R4E S27 | S26 S34 | S35 W | C 1917
	Land, rolling andbroken, with a general southwesterly exposure and drainage.
	Soil, shallow loose sand and surfacerock; 3rd rate; Sandstone formation.
	Undergrowth, short sagebrush, shadscale, and Brigham tea.
	No timber.
	Fair grazing land.
	East, on random line, bet. secs. 26 and 35.
	As it is impracticable to chain E. from the true point for the cor. of secs. 26, 27, 34, and 35, on account of ledges, I commence at the witness cor. to the cor. of said secs. which is N. 0°01' W., 1.47 chs. dist. from the true point for cor. and run on offset line as follows.
	East, 18.60 chs. dist., thence: S. 0°01' E., 1.47 chs. dist. to:
18.60	Point on true random line; thence East, on true random line.
40.00	Set templ ¼ sec. cor.
79.94	Intersect the N. and S. line, 12 lks. S. of the cor. of secs. 25, 26, 35, and 36.
	Thence:
	S. 89°55' W., on true line bet. secs. 26 and 35.
	Over general N. and NW. slopes of broken bench land, through scattered undergrowth.
17.80	Gulch, 10 ft. deep, drains N. 70° W.
27.30	The N. end of a series of red gravelly hills which extend S., about 25.00 chs. dist.
39.97	On gradual S. slope;

Chains	
	Set an iron post, 3 ft. long, 1 in. diam., 10 ins. in the ground to solid rock and in a mound of stone to top, for ¼ sec. cor., with brass cap marked ¼ S26 / S35 1917 raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor.
52.00	A boxed gulch which drains W., bears N. of line, 1.50 chs. dist.
61.34	From this point, the line to the W. passes along the broken breaks of gulch, to pass breaks, I offset as follows. N. 0°01' W., 1.47 chs. dist., thence: S. 89°55' W., on offset line.
70.00	Approximate distance on true line; bottom of boxed gulch, 50 ft. deep, drains S. 80° W.
79.94	The witness cor. to the cor. of secs. 26, 27, 34, and 35. Land, rolling and broken, with a general northerly and westerly exposure and drainage. Soil, loose sand, gravel, and surfacerock; 3rd rate. Sandstone formation. Undergrowth, scattered short sagebrush and Brigham tea. No timber. Fair grazing land.
	From the true point for the cor. of secs. 26, 27, 34, and 35. N. 0°01' W., bet. secs. 26 and 27. Ascend gradual S. slope of rocky bench land, through scattered undergrowth.
1.47	The witness cor. to the cor. of secs. 26, 27, 34, and 35.
6.50	Top of low ridge, 50 ft. above true point for sec. cor., bears E. and S. 30° W.; descend gradual N. slope.
32.90	Bottom of boxed gulch, 50 ft. deep, drains NW., 4.00 chs. dist. to junction with main gulch draining W.
38.20	Bottom of main gulch, which has perpendicular sandstone walls 75 ft. high, drains S. 70° W.
40.00	On gradual S. slope of surfacerock, mark a cross (X), over which: Set an iron post, 3 ft. long, 1 in. diam., in a large mound of stone, for ¼ sec. cor., with brass cap marked ¼ S27 | S26 1917

Chains	
	raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.
42.20	Point from which a high shale butte, bears N. 78°15' E., about 1½ miles dist.
46.80	Small wash, 5 lks. wide, 3 ft. deep, drains W.
64.70	Small ravine, 30 ft. deep, drains SW.
71.00	Stock trail, bears NW. and SE.
74.30	Outcropping of coal, about 3 ft. thick, bears NE. and SW.
75.00	The SW. point of hill which extends to the NE.; descend gradual NW. slope.
80.00	At foot of slope on S. edge of wash in ravine, 30 ft. below point of hill.
	Set an iron post, 3 ft. long, 2 ins. diam., 27 ins. in the ground, for cor. of secs. 22, 23, 26, and 27, with brass cap marked

T42S	R4E
S22	S23
S27	S26

1917

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

Land, broken, with a general westerly exposure and drainage.

Soil, shallow loose sand, clay, and surfacerock; 4th rate. Sandstone formation.

Undergrowth, short shadscale, Brigham tea, and weeds.

No timber.

Fair grazing land.

N. 89°55' E., on random line, bet. secs. 23 and 26.

40.00	Set temp. ¼ sec. cor.
80.06	Intersect the N. and S. line, 2 lks. S. of the cor. of secs. 23, 24, 25, and 26.

Thence:

S. 89°54' W., on true line, bet. secs. 23 and 26.

Over general S. slope of high broken clay hills, through scattered undergrowth.

0.55	Head of small draw, drains SW.
5.80	Spur, 80 ft. above cor., projects SW., about 10.00 chs. dist. to end.
8.00	Begin abrupt descent over W. slope.
13.40	Small wash, 10 lks. wide, 4 ft. deep, 125 ft. below spur, drains SW.

Chains	
20.50	Draw, 10 ft. deep, drains SW.; leave blue clay hills, and enter sand and gravelly hills, bears N. and S.
28.20	Spur, 55 ft. above draw, projects S., 6.00 chs. dist. to end.
31.50	Draw, 35 ft. below spur, drains S.
38.00	Spur, 40 ft. above draw, projects SW., 13.00 chs. dist. to end.
40.03	On gradual W. slope, 15 ft. below spur.
	Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground, for ¼ sec. cor., with brass cap marked
	¼ S23 / S26
	1917
	raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor.
44.45	Head of draw, 25 ft. below the ¼ sec. cor., drains SW.; thence along gradual S. slope.
49.70	Top of ascent on S. slope, bears S., and N. 3.00 chs. dist. to top of ridge which bears E. and W.
58.90	Main wash, 15 lks. wide, 4 ft. deep, 90 ft. below top of ascent, drains SW.
65.20	Head of swale, drains SW.
73.50	Spur, projects SW.
80.06	The cor. of secs. 22, 23, 26, and 27, 60 ft. below spur.
	Land, rough and broken, with a general southwesterly exposure and drainage.
	Soil, blue clay, sand, and gravel; 3rd rate. Sandstone and shale formation.
	Undergrowth, short sagebrush, shadscale, and greasewood.
	No timber.
	Poor grazing land.
	N. 0°01' W., bet. secs. 22 and 23.
	Over general SW. slope of rolling and broken bench land, through scattered undergrowth.
1.20	Wash, 20 lks. wide, 5 ft. deep, drains SW.
3.00	Wash, 5 lks. wide, 3 ft. deep, drains SW.
10.20	Outcropping of coal, 3 ft. thick, bears NE. and SW.
17.00	Top of clay spur, 20 ft. high, projects W., 2.00 chs. dist.

Chains	
22.70	Wash, 10 lks. wide, 2 ft. deep, drains SW.
37.10	Wash, 20 lks. wide, 4 ft. deep, drains SW.
40.00	On rolling land.
	Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground, for ¼ sec. cor., with brass cap marked
	¼ S22 | S23 1917
	raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.
44.00	Wash, 20 lks. wide, 4 ft. deep, drains SW.
55.60	Wash, 25 lks. wide, 5 ft. deep, drains SW.
71.55	Wash, 25 lks. wide, 5 ft. deep, drains SW.
80.00	On rolling land.
	Set an iron post, 3 ft. long, 2 ins. diam., 12 ins. in the ground to solid rock and in a mound of stone to top, for cor. of secs. 14, 15, 22, and 23, with brass cap marked
	T42S | R4E S15 | S14 S22 | S23 1917
	raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.
	Land, rolling and broken, with a general southwesterly exposure and drainage.
	Soil, shallow blue clay and gravel; 3rd rate. Sandstone and shale formation.
	Undergrowth, short sagebrush and shadscale.
	No timber.
	Fair grazing land.
	N. 89°54' E., on random line, bet. secs. 14 and 23.
40.00	Set temp. ¼ sec. cor.
79.90	Intersect the cor. of secs. 13, 14, 23, and 24.
	Thence:
	S. 89°54' W., on true line, bet. secs. 14 and 23.
	Descend gradual W. slope of broken land, through scattered undergrowth.
16.00	Enter broken bench land, bears N. and S.
16.50	Draw, 50 ft. deep, drains SW.
39.95	On gradual W. slope, 350 ft. below sec. cor., mark a cross (X) on the surfacerock, over which:

Chains	
	Set an iron post, 3 ft. long, 1 in. diam., in a large mound of stone, for ¼ sec. cor., with brass cap marked
	¼ S14 / S23 1917
60.10	Wash, 30 lks. wide, 6 ft. deep, drains SW.
72.00	Wash, 12 lks. wide, 3 ft. deep, drains S. 60° W.
79.90	The cor. of secs. 14, 15, 22, and 23.
	Land, rolling and mountainous, with a general westerly exposure and drainage.
	Soil, shallow gravel, sand, and blue clay; 3rd rate. Sandstone and shale formation.
	Undergrowth, short sagebrush, shadscale, and Brigham tea.
	No timber.
	Fair grazing land.
	N. 0°01' W., bet. secs. 14 and 15.
	Over rolling bench land sloping to the SW., through scattered short undergrowth.
8.60	Wash, 15 lks. wide, 4 ft. deep, drains SW.
15.55	Top of low ridge, 60 ft. above sec. cor., bears NE., and SW., 5.00 chs. dist. to end.
21.00	Wash, 10 lks. wide, 2 ft. deep, at base of ridge, 45 ft. below top, drains W.
28.90	Wash, 20 lks. wide, 10 ft. deep, drains W.
33.40	Wash, 30 lks. wide, 8 ft. deep, drains SW.
40.00	On gradual SW. slope.
	Set an iron post, 3 ft. long, 1 in. diam., 20 ins. in the ground to solid rock and in a mound of stone to top, for ¼ sec. cor., with brass cap marked
	¼ S15 | S14 1917
	of stone, 2 ft. base, 1½ ft. high, W. of cor. raise a mound
51.95	Wash, 20 lks. wide, 6 ft. deep, drains SW.
69.10	Ravine, 60 ft. deep, drains W., 5.00 chs. dist., thence SW.
72.00	Leave bench land and enter broken blue clay foot hills of Smoky Mountain, bears E. and W.

Chains	
73.80	Gulch, 60 ft. below bench, drains S. 70° W., ascend abrupt SE. slope.
77.00	Top of sharp clay spur, 70 ft. above gulch, projects SW.; 5.00 chs. dist. to end; ascend gradually along steep SW. slope.
80.00	On steep rocky SW. slope, 30 ft. above spur. Set an iron post, 3 ft. long, 2 ins. diam., 27 ins. in the ground, for cor. of secs. 10, 11, 14, and 15, with brass cap marked

T42S	R4E
S10	S11
S15	S14

1917

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

Land, rolling and broken, with a general southwesterly exposure and drainage.

Soil, shallow blue clay, shale, and gravel; 4th rate. Sandstone and shale formation.

Undergrowth, very scattered shadscale and weeds.

No timber.

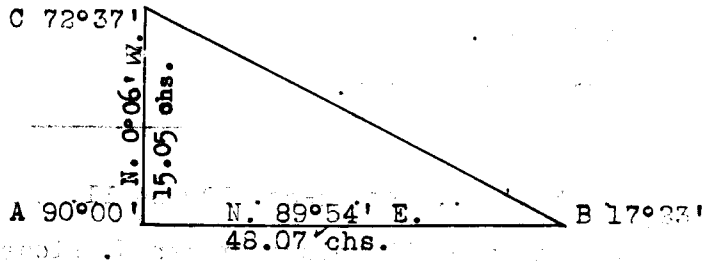
Poor grazing land.

N. 89°54' E., on random line, bet. secs. 11 and 14.

35.60 Leave flag.

40.00 Set temp. ¼ sec. cor.

55.00 The line to the E. of this point, passes over inaccessible ledges and shale breaks over which I am unable to chain, I therefore return to the 35.60 chs. point and determine the dist. by triangulation as follows. Erect flag A at the 35.60 chs. point, and flag B on line to the E. From A, survey base line AC, N. 0°06' W., 15.05 chs. dist. and erect flag C. From C, AB subtends an angle of 72°37'. From B, AC subtends an angle of 17°23'. Vertical angle from A to B is plus 17°30'. All angles checked by repetition and base line double chained.

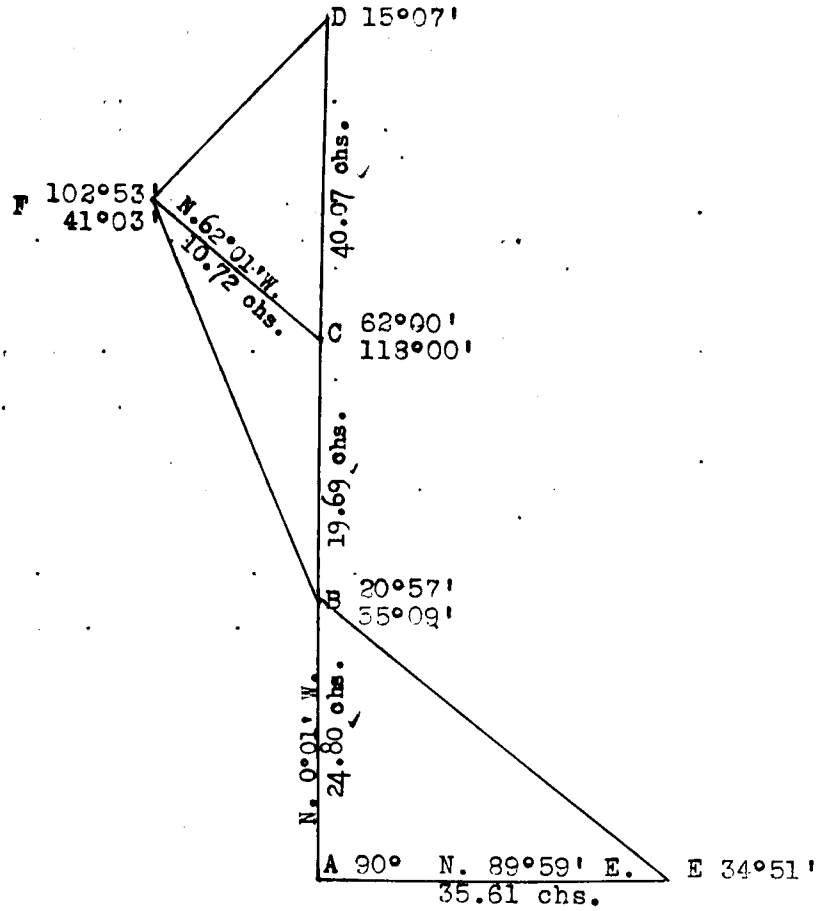


Distance on line	35.60 chs.
Distance by triangulation	48.07 chs.
	83.67 chs.
Distance by return measurement	3.57 chs.
	80.10 chs.

Chains	
80.10	Intersect the N. and S. line, 14 lks. N. of the cor. of secs. 11, 12, 13, and 14.
	Thence:
	West, on true line, bet. secs. 11 and 14:
	Descend abrupt NW. slope of high mountainous land, over inaccessible sandstone ledges and shale breaks, through very scattered undergrowth.
35.00	Gulch, 775 ft. below cor., drains SW.; ascend steep SE. slope.
36.00	Spur, 110 ft. above gulch, projects SW.; descend gradually over broken W. slope.
41.05	On broken W. slope, 50 ft. below spur.
	Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground, for ¼ sec. cor., with brass cap marked
	¼ S11 / S14 / 1933
	raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor.
49.00	Bottom of main gulch, 50 ft. below the ¼ sec. cor., drains S. 60° W. from the NE.; ascend steep E. slope.
61.30	Spur, 30 ft. above gulch, projects SW.; descend steep W. slope.
72.70	Gulch, 180 ft. below spur, drains SW.; ascend steep rocky E. slope.
78.00	Spur, 100 ft. above gulch, projects S. 20° W.; descend steep rocky W. slope.
80.10	The cor. of secs. 10, 11, 14, and 15, 80 ft. below spur.
	Land, broken and mountainous, with a general southwesterly exposure and drainage.
	Soil, shallow blue clay and shale; 4th rate. Shale and sandstone formation.
	Undergrowth, very scattered shadscale and weeds.
	No timber.
	Poor grazing land.
	N. 0°01' W., bet. secs. 10 and 11.
	Ascend gradually along broken W. slope of high sharp spur to the E., through scattered undergrowth.
10.50	Spur, 45 ft. above cor., projects W. The line to the N. of this point, ascends the steep inaccessible S. breaks of a high ridge to the N. over which I am unable to chain. I therefore determine the distance by triangulation as follows.

Chains

Erect flag A at the cor. of secs. 10, 11, 14, and 15, and flags B, C, and D, on line to the N. From A, survey base line AE, N. 89°59' E., 35.61 chs. dist. and erect flag E. From C, survey base line CF, N. 62°01' W., 10.72 chs. dist. and erect flag F. From E, AB subtends an angle of 34°51'. From B, AE subtends an angle of 55°09'. From F, BC subtends an angle of 41°03'. From B, CF subtends an angle of 20°57'. From F, CD subtends an angle of 102°53'. From D, CF subtends an angle of 15°07'. Vertical angle from A to B is plus 27°21'. Vertical angle from B to C is plus 3°11'. Vertical angle from C to D is minus 3°02'. All angles checked by repetition and base lines double chained.



Distance by triangulation A to B	24.80 chs.
Distance by triangulation B to C	19.69 chs.
	44.49 chs.
Distance by triangulation C to D	40.07 chs.
	84.56 chs.

24.80 To point B of triangulation, at top of sharp ledgy ridge, 830 ft. above sec. cor., bears N. 75° E. and S. 75° W.; descend abruptly over broken N. inaccessible N. breaks of ridge.

30.00 Approximate distance; Gulch, 280 ft. below ridge, drains N. 70° W., and heads S. 70° E., about 15.00 chs. dist.; ascend abruptly over broken SW. face of sandstone ledges and blue shale breaks, over which chaining is impossible.

40.00 True point for the ¼ sec. cor. falls on inaccessible SW. face of blue shale breaks, where it is impracticable to reach the cor. point.

44.49 To point C of triangulation, at top of sharp sandstone

Chains

spur, 550 ft. above gulch, projects N. 60° W., about ½ mile dist; mark a cross (X) on the surface rock, over which:

Set an iron post, 3 ft. long, 1 in. diam., in a large mound of stone, for witness cor. to the ¼ sec. cor. secs. 10 and 11, with brass cap marked

¼	
S10	S11
WC	
1934	

No other suitable accessories available.

The line to the N. of this cor., passes over the broken inaccessible N. breaks of spur, over which chaining is impracticable.

75.00 Approximate distance; junction of two gulches from the NE. and SE., draining N. 80° W., 490 ft. below the witness cor. to the ¼ sec. cor.; ascend abrupt S. face of broken inaccessible sandstone ledges and shale breaks.

[illegible] True point for the cor. of secs. 2, 3, 10, and 11, falls on inaccessible S. face of blue shale breaks, where it is impracticable to reach the cor. point.

[illegible] To point D of triangulation, at top of sharp sandstone spur, 750 ft. above gulch, projects SW., 10.00 chs. dist. to end.

Set an iron post, 3 ft. long, 2 ins. diam., 10 ins. in the ground to solid rock and in a mound of stone to top, for witness cor. to the cor. of secs. 2, 3, 10, and 11, with brass cap marked

T42S	R4E
S3	S2
S10	S11
WC	
1934	

Deposit a sandstone, 12 x 10 x 8 ins., at base of post, marked with a cross (X).

Land, broken inaccessible sandstone ledges and shale breaks, with a general southerly and northerly exposure into deep gulches draining to the W.

Soil, shallow blue clay and shale; 4th rate. Sandstone and shale formation.

Undergrowth, very scattered shadscale and weeds.

No timber.

Poor grazing land.

East, on random line, bet. secs. 2 and 11.

It being impossible to project a line to the E. of the true point for the cor. of secs. 2, 3, 10, and 11, I

Chains	
	commence at the witness cor. to the cor. of said secs. and run on offset line as follows.
	East, 5.50 chs. dist., thence: South 4.56 chs. dist. to:
5.50	Point on true random line; thence East, on true random line.
40.00	Set temp. ¼ sec. cor.
80.00	Intersect the cor. of secs. 1, 2, 11, and 12.
	Thence:
	West, on true line, bet. secs. 2 and 11.
	Ascend abrupt NE. slope of high divide ridge, through scattered undergrowth.
18.10	Top of E. rim of ridge, 535 ft. above cor., bears N. and S.; thence over flat top of ridge.
20.00	Top of W. rim of ridge, bears N. and S.; descend abruptly over ledgy irregular NW. slope.
40.00	On ledgy NW. slope, 425 ft. below ridge.
	Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground, for ¼ sec. cor., with brass cap marked ¼ S2 / S11 1934 Raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor.
	Continue abrupt descent over ledgy NW. slope.
63.00	Descent becomes more abrupt, bears NE. and SW.
74.50	Gulch, 580 ft. below the ¼ sec. cor., drains SW., 7.00 chs. dist. to junction with gulch from the SE.
	The line to the W. of this point, passes over the broken inaccessible S. face of a high shale break facing the S., to pass breaks, I offset as follows.
	North, 4.56 chs. dist., thence: West, 5.50 chs. dist. to:
80.00	The witness cor. to the cor. of secs. 2, 3, 10, and 11, which is N. 0°01' W., 4.56 chs. dist. from the true point for the cor. of said secs., 120 ft. above gulch.
	Land, broken and mountainous, with a general easterly and westerly exposure and drainage.
	Soil, shallow blue clay and shale; 4th rate. Sandstone and shale formation.
	Undergrowth, scattered shadscale and weeds.
	Poor grazing land.
	No timber.

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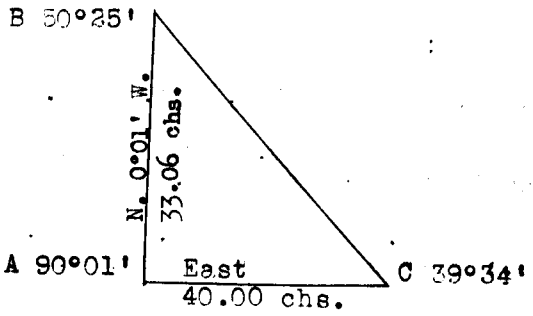
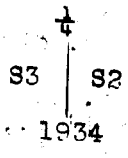
Chains	
	N. 0°01' W., on random line, bet. secs. 2 and 3.
	The line to the N. of the true point for the cor. of secs. 2, 3, 10, and 11, passes over inaccessible ledges and shale breaks over which I am unable to chain, I therefore triangulate as follows. Designate the true point for the cor. of secs. 2, 3, 10, and 11, as A. and the ¼ sec. cor. secs. 2 and 11 as C. Erect flag B on line to the N. from A. From C, AB subtends an angle of 39°34'. From B, AC subtends an angle of 50°25'. Vertical angle from A to B is plus 10°38'. All angles checked by repetition.



Distance by triangulation	33.06 chs.
Distance by return measurement	15.94 chs.
	17.12 chs.

33.06	To point B of triangulation.
40.00	Set temp. ¼ sec. cor.
80.12	Intersect the cor. of secs. 2, 3, 34, and 35, on the N. bdy. of the township, heretofore described.
	Thence:
	S. 0°01' E., on true line, bet. secs. 2 and 3.
	Over rolling top of high mesa, through dense undergrowth of blackbrush.
33.40	Top of S. rim of mesa, 80 ft. below cor., bears N. 70° W. and S. 70° E.; descend abrupt SW. slope over ledges, through scattered undergrowth of shadscale and weeds.
40.12	On steep broken SW. slope, 200 ft. below top of mesa.
	Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground, for ¼ sec. cor., with brass cap marked



	of stone, 2 ft. base, 1½ ft. high, W. of cor. Raise a mound
	Continue descent over broken SW. slope.
47.06	To point B of triangulation on top of spur, 40 ft. below the ¼ sec. cor., projects S. 40° W.; descend abruptly over ledgy SE. slope.
63.00	Top of abrupt descent over inaccessible sandstone ledges and blue shale breaks facing SE. and bearing NE. and SW., over which chaining is impossible.

Chains	
69.00	Approximate distance; bottom of blue shale gulch, 680 ft. below the ¼ sec. cor., drains SW.; ascend abruptly over broken N. face of ledges.
75.56	The witness cor. to the cor. of secs. 2, 3, 10, and 11, 830 ft. above gulch.
80.12	To point A of triangulation and point for the cor. of secs. 2, 3, 10, and 11, 750 ft. below witness cor..
	Land, rolling and broken, with a general southwesterly exposure and drainage.
	Soil, shallow loose sand on mesa top and shallow blue clay and shale on breaks of mesa; 3rd and 4th rates. Sandstone and shale formations.
	Undergrowth, dense short blackbrush on top of mesa, scattered shadscale and weeds on breaks of mesa.
	No timber.
	Poor grazing land.
	From the cor. of secs. 3, 4, 33, and 34, on the S. bdy. of the township, which is an iron post, 2 ins. diam., set, marked and witnessed as described in the official records of the survey of T. 42 S., R. 4 E., on this group.
	N. 0°02' W., bet. secs. 33 and 34.
	As the line to the N. of the cor. of secs. 3, 4, 33, and 34, passes along the broken E. rim of Warm Creek, I offset as follows.
	West, 4.60 chs. dist., thence:
	N. 0°02' W., on offset line, along broken bottom lands of Warm Creek, through scattered undergrowth, giving distances to topography on offset line.
2.20	Dry bed of Warm Creek, 80 lks. wide, 7 ft. deep, drains SE.; thence along base of E. breaks of creek bed.
17.40	Wash, 80 lks. wide, 7 ft. deep, in draw draining S. 10° W.
20.70	Head of draw at base of ledge, drains S. 10° E.; ledge bears N. 70° E. and SW.; ascend over S. face of ledge.
21.20	Top of nearly perpendicular sandstone ledge, 175 ft. high, bears N. 70° E. and SW.; thence along gradual SW. slope.
26.80	Top of ascent, 300 ft. above bed of Warm Creek, bears E. and W.; thence over rolling bench land.
37.17	Offset East, 4.60 chs. dist. to true line; thence N. 0°02' W. on true line.
40.00	On gradual NW. slope of surfacerock, mark a cross (X), over which:
	Set an iron post, 3 ft. long, 1 in. diam., in a large mound of stone, for ¼ sec. cor., with brass cap marked

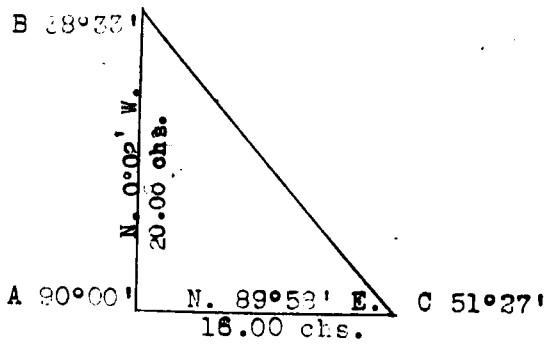
¼

S33 | S34

1917

SUBDIVISION OF, T. 42 S., R. 4 E.

Chains	
	No other suitable accessories available.
52.79	Top of S. rim of canyon, bears NE. and SW., over which chaining is impracticable, I therefore triangulate as follows. Erect flag A at this point, and flag B on line to the N. From A, survey base line AC, N. 89°58' E., 16.00 chs. dist. and erect flag C. From C, AB subtends an angle of 51°27', and from B, AC subtends an angle of 38°33'. All angles checked by repetition and base line double chained.



Distance on line	52.79 chs.
Distance by triangulation	20.08 chs.
	72.87 chs.

62.80	Approximate distance; bottom of canyon, 250 ft. deep, drains SW.
72.87	To point B of triangulation at top of N. rim of canyon, bears NE. and SW.; thence ascend gradual S. slope.
75.15	Top of ascent, bears NE. and SW.; descend gradual NW. slope.
80.00	On gradual NW. slope,

Set an iron post, 3 ft. long, 2 ins. diam., 10 ins. in the ground to solid rock and in a mound of stone to top, for cor. of secs. 27, 28, 33, and 34, with brass cap marked

T42S	R4E
S28	S27
S33	S34

1917

Deposit a sandstone, 6 x 5 x 4 ins., at base of post, marked with a cross (X).

Land, rolling tops of benches and broken breaks of canyon, with a general south and southwesterly exposure and drainage.

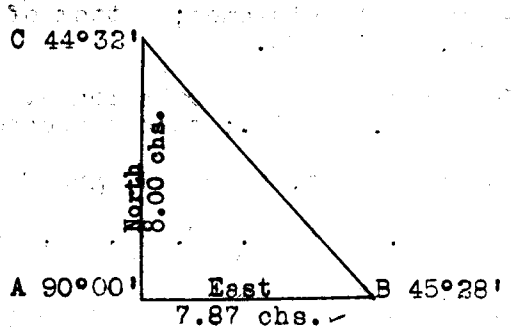
Soil, shallow loose sand; 3rd rate. Sandstone formation.

Undergrowth, short shadscale and greasewood.

No timber.

Fair grazing land.

Chains	
	East, on random line, bet. secs. 27 and 34.
10.08	Rim of canyon over which chaining is impracticable, I therefore determine the distance by triangulation as follows. Erect flag A at this point and flag B on line E. From A, survey base line AC, North, 8.00 chs. dist. and erect flag C, From C, flags AB subtend an angle of 44°32'. From B, flags AC subtend an angle of 45°28'. All angles checked by repetition and base line double chained.



Distance on line	10.08 chs.
Distance by triangulation	7.87 chs.
	17.95 chs.

17.95	To point B of triangulation.
40.00	Set temp. ¼ sec. cor.
73.78	Rim of canyon over which chaining is impossible, to pass rim, I offset as follows. North, 1.47 chs. dist., thence: East, 6.20 chs. dist. on offset line to:
79.98	Intersect the witness cor. to the cor. of secs. 26, 27, 34, and 35, which is N. 0°01' W., 1.47 chs. dist. from the true point for said cor. Thence: As the line W. of the true point for the cor. of secs. 26, 27, 34, and 35, passes over the broken N. breaks of canyon, over which I am unable to chain, I commence at the witness cor. to the cor. of said secs., and run on offset line as follows. West, 6.20 chs. dist., thence: S. 0°01' E., 1.47 chs. dist. to:
6.20	Point on true line, thence West, on true line , bet. secs. 27 and 34, over broken bench land through scattered undergrowth.
10.40	Top of ascent, 25 ft. high, bears NE. and SW.; descend gradual NW. slope.
39.68	Head of small wash, 5 lks. wide, 2 ft. deep, drains NW.
39.99	On gradual NW. slope, 70 ft. below top of ascent. Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground, for ¼ sec. cor., with brass cap marked

¼ S27 / S34

1917

Chains	
	raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor.
49.50	Wash, 5 lks. wide, 5 ft. deep, drains SW.
62.03	To point B of triangulation at top of E. rim of canyon, bears N. 30° E. and S. 30°, W.; thence by triangulation across canyon.
65.80	Approximate distance; bottom of boxed canyon, 200 ft. deep, drains SW.
69.90	To point A of triangulation at top of W. rim of canyon, bears NE. and SW.; thence ascend gradual SE. slope.
76.50	Top of ascent, bears NE. and SW.
79.98	The cor. of secs. 27, 28, 33, and 34.
	Land, broken bench cut by deep canyons, with a general southwesterly exposure and drainage.
	Soil, shallow loose sand and surfacerock; 3rd rate. Sandstone formation.
	Undergrowth, short shadscale, Brigham tea, and oose.
	No timber.
	Fair grazing land.

	N. 0°02' W., bet. secs. 27 and 28.
	Descend gradual NW. slope of rolling bench land, through scattered undergrowth.
22.00	Wash, 10 lks. wide, 3 ft. deep, drains NW.
35.15	Wash, 15 lks. wide, 5 ft. deep, drains NW.
40.00	On gradual NW. slope.
	Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground, for ¼ sec. cor., with brass cap marked

¼

S28 | S27

1917

	raise a mound of stone, 3 ft. base, 2 ft. high, W. of cor.
78.40	Wash, 20 lks. wide, 3 ft. deep, drains W.
80.00	In small depression of level land.
	Set an iron post, 3 ft. long, 2 ins. diam., 10 ins. in the ground to solid rock and in a mound of stone to top; for cor. of secs. 21, 22, 27, and 28, with brass cap marked

T42S | R4E

S21 | S22

S28 | S27

1917

chains	
	raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.
	Land, rolling bench, with a general northwesterly exposure and drainage.
	Soil, shallow loose sand and surface rock; 3rd rate. Sandstone formation.
	Undergrowth, scattered shadscale and rabbit brush.
	No timber.
	Fair grazing land.
	East, on random line, bet. secs. 22 and 27.
40.00	Set temp. ¼ sec. cor.
80.02	Intersect the cor. of secs. 22, 23, 26, and 27.
	Thence:
	West, on true line, bet. secs. 22 and 27.
	Over general W. slope of rolling bench land, through scattered undergrowth.
1.70	Wash, 30 lks. wide, 5 ft. deep, drains SW.
2.00	Wash, 10 lks. wide, 3 ft. deep, drains SW.
6.20	The S. point of low hill, bears NE.
17.20	Wash, 25 lks. wide, 6 ft. deep, drains SW.
23.30	The S. end of a low flat bench; descend gradually.
25.30	Base of bench, bears NW. and SE.
35.00	Outcropping of coal, 2 ft. thick, bears N. and S.
40.01	On surfacerock, mark a cross (X), over which:
	Set an iron post, 3 ft. long, 1 in. diam., in a large mound of stone, for ¼ sec. cor., with brass cap marked
	¼ S22 / S27
	1917
	No other suitable accessories available.
	Cor. set in small depression at the E. edge of head of small wash draining NW.
53.40	Wash, 20 lks. wide, 3 ft. deep, drains S. 70° W.
71.00	Main wash, 30 lks. wide, 3 ft. deep, drains S. 70° W.
80.02	The cor. of secs. 21, 22, 27, and 28, 70 ft. below the ¼ sec. cor.
	Land, broken bench, with a general southwesterly exposure and drainage.

Chains	
	Soil, shallow sand, gravel, and blue clay; 3rd rate. Shale and sandstone formation.
	Undergrowth, scattered short shadscale and rabbit brush.
	No timber.
	Fair grazing land.
	N. 0°02' W., bet. secs. 21 and 22.
	Over gradual SW. slope of rolling and broken bench land through scattered short undergrowth.
19.20	Wash, 15 lks. wide, 3 ft. deep, drains SW.
22.40	Rocky spur, 15 ft. high, projects E., 1.00 chs. dist., and W., 3.00 chs. dist.
35.30	Wash, 20 lks. wide, 5 ft. deep, drains SW.
40.00	Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground, for ¼ sec. cor., with brass cap marked ¼ S21 | S22 1917 raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.
44.50	Top of low rolling spur, 20 ft. high, projects W., 5.00 chs. dist. to end.
56.30	Small wash, 10 lks. wide, 3 ft. deep, drains SW.
68.10	Main wash, 30 lks. wide, 2 ft. deep, drains SW.
80.00	Set an iron post, 3 ft. long, 2 ins. diam., 27 ins. in the ground, for cor. of secs. 15, 16, 21, and 22, with brass cap marked T42S | R4E S16 | S15 S21 | S22 1917 raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.
	Land, rolling bench, with a general southwesterly exposure and drainage.
	Soil, shallow loose sand, clay, and rock; 3rd rate; shale and sandstone formation.
	Undergrowth, shadscale, blackbrush and cactus.
	No timber.
	Fair grazing land.

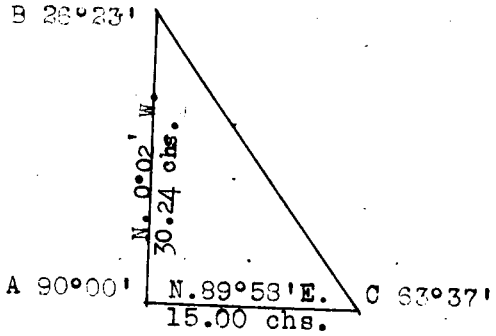
Chains	
	East, on random line, bet. secs. 15 and 22.
40.00	Set temp. ¼ sec. cor.
80.06	Intersect the N. and S. line, 5 lks. N. of the cor. of secs. 14, 15, 22, and 23.
	Thence:
	N. 89°58' W., on true line, bet. secs. 15 and 22.
	Descend gradual SW. slope of rolling bench land, through scattered short undergrowth.
15.75	Wash, 15 lks. wide, 3 ft. deep, drains SW., 50 ft. below cor.; ascend gradually.
22.25	Enter flat top of low spur, 30 ft. above wash, bears NE. and SW.
34.00	Leave flat top of spur, bears NE. and SW.; descend gradual NW. slope.
40.03	On gradual NW. slope, 70 ft. below spur.
	Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground, for ¼ sec. cor., with brass cap marked ¼ S15 / S22 1917 raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor.
46.55	Wash, 10 lks. wide, 2 ft. deep, drains SW.; ascend gradually.
61.80	Small rocky spur, 25 ft. above wash, projects SW.; descend gradually.
68.50	Main wash, 20 lks. wide, 3 ft. deep, 50 ft. below spur, drains SW.; ascend gradually.
80.06	The cor. of secs. 15, 16, 21, and 22, 25 ft. above wash.
	Land, rolling, with a general southwesterly exposure and drainage.
	Soil, gravel and sand; 3rd rate. Sandstone and shale formation.
	Undergrowth, scattered short shadscale and rabbit brush.
	No timber.
	Fair grazing land.
	N. 0°02' W., bet. secs. 15 and 16.
	Over rolling bench land, through scattered short undergrowth.
7.20	Leave rolling bench land and enter broken blue clay and shale hills, bears E. and W.

SUBDIVISION OF, T. 42 S., R. 4 E.

Chains	
8.20	Bend in large draw, 50 ft. below cor., drains W. from the NE.; ascend gradually over broken S. slope of blue clay and shale hills.
39.00	On E. slope of blue clay knoll, 100 ft. above draw.
	Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground, for witness cor. to the ¼ sec. cor., secs. 15 and 16, with brass cap marked

W C
¼
S16 | S15
1933

	Deposit a sandstone, 18 x 8 x 2 ins., at base of post, marked with a cross (X).
	No other suitable accessories available.
40.00	True point for the ¼ sec. cor. falls in bottom of wash, 10 lks. wide, 2 ft. deep, drains S. 20° E., where it is impracticable to set a permanent cor.
54.00	Base of abrupt ascent over inaccessible blue shale breaks facing S., and base of the S. breaks of Smoky Mountain, bears N. 60° E. and S. 60° W. To determine the distance to top of breaks, I triangulate as follows. Erect flag A at the witness cor. to the ¼ sec. cor., and flag B on line to the N. From A, survey base line AC, N. 89°58' E., 15.00 chs. dist. and erect flag C. From C, AB subtends an angle of 63°37'. From B, AC subtends an angle of 26°23'. Vertical angle from A to B is plus 17°30'. All angles checked by repetition and base line double chained.



Distance on line	39.00 chs.
Distance by triangulation	30.24 chs.
	69.24 chs.

69.24	To point B of triangulation at top of high reef on spur, 640 ft. above the witness cor. to the ¼ sec. cor., spur projects S. 60° W. and reef bears S. 60° W., 5.00 chs. dist., and N. 60° E., 15.00 chs. dist. From this point, a high sharp blue shale butte, bears S. 60° W., about 25.00 chs. dist.; descend abruptly over ledgy N. slope.
80.00	On abrupt broken N. slope, 140 ft. below top of spur.
	Set an iron post, 3 ft. long, 2 ins. diam., 20 ins. in the ground to solid rock and in a mound of stone to top, for cor. of secs. 9, 10, 15, and 16, with brass cap marked

Chains	
	T42S | R4E S9 | S10 S16 | S15 1934
	Deposit a sandstone, 16 x 12 x 10 ins., at base of post, marked with a cross (X).
	Land, broken and mountainous, with a general southerly and northerly exposure and drainage.
	Soil, shallow blue clay and shale; 4th rate. Shale and sandstone formation.
	Undergrowth, very scattered shadscale.
	No timber.
	Poor grazing land.
	S. 89°58' E., on random line, bet. secs. 10 and 15.
40.00	Set temp. ¼ sec. cor.
80.00	Intersect the N. and S. line, 7 lks. S. of the cor. of secs. 10, 11, 14, and 15.
	Thence:
	S. 89°59' W., on true line, bet. secs. 10 and 15.
	Descend abrupt W. slope of foot hills of Smoky Mountains, through scattered short undergrowth.
1.20	Gulch, 50 ft. below cor., drains SW.; ascend abrupt E. slope.
5.30	Blue clay spur, 80 ft. above gulch, projects S. 30° W., 10.00 chs. dist. to end; ascend gradually along general S. slope of blue shale breaks.
36.70	Top of ascent on top of sharp clay spur, same level as sec. cor., projects S.; descend gradual SW. slope.
40.00	On gradual SW. slope, 40 ft. below spur.
	Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground, for ¼ sec. cor., with brass cap marked ¼ S10 / S15 1934 raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor.
55.00	Wide draw, 180 ft. below the ¼ sec. cor., drains S. 20° E.; ascend abrupt E. slope over blue clay hills.
72.50	Top of ascent at top of spur, 420 ft. above draw, projects S. 60° W., about 5.00 chs. to high butte, and bears N. 60° E., about 10.00 chs. to high butte; descend gradually along broken N. slope of blue clay breaks.

Chains

80.00 The cor. of secs. 9, 10, 15, and 16, 45 ft. below spur.

Land, broken and mountainous with a general southerly exposure and drainage.

Soil, shallow blue clay and shale, 4th rate. Shale and sandstone formation.

Undergrowth, very scattered shadscale.

No timber.

Poor grazing land.

N. 0°03' W., bet. secs. 9 and 10.

Descend abrupt N. slope of blue clay hills, through scattered undergrowth.

6.40 Draw, 160 ft. below cor., drains N. 15° W.; ascend broken SW. slope.

6.80 Enter small flat bench, bears E. and W., 20 ft. above draw.

11.40 Leave bench, bears E. and W.; descend abrupt NW. slope.

25.70 Leave flag at top of blue shale rim, bears NW. and SE.

35.30 Bottom of main gulch, 130 ft. below bench, drains S. 60° W.; ascend abrupt broken S. slope of blue clay hills.

39.90 Blue clay spur, 60 ft. above gulch, projects S. 50° W.; continue abrupt ascent over broken S. breaks of high ridge to the N.

40.00 On broken S. breaks of ridge, 10 ft. above spur.

Set an iron post, 3 ft. long, 1 in. diam., 22 ins. in the ground to solid rock and in a mound of stone to top, for ¼ sec. cor., with brass cap marked

¼

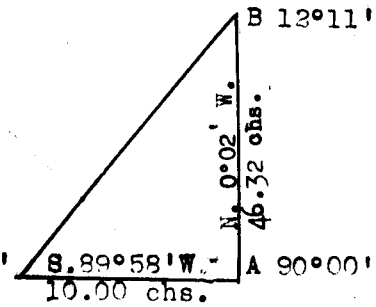
S9 | S10

1934

Deposit a sandstone, 10 x 10 x 10 ins., at base of post, marked with a cross (X).

The line to the N. of this cor., passes over the broken inaccessible S. breaks of a high ridge to the N., I therefore determine the distance to top of ridge by triangulation as follows. Erect flag A at the 25.70 chs. point, and flag B on line to the N. From A, survey base line AC, S. 89°58' W. 10.00 chs. dist. and erect flag C. From C, AB subtends an angle of 77°49'. From B, AC subtends an angle of 12°11'. Vertical angle from A. to B. is plus 15°43'. All angles checked by repetition and base line double chained.

Chains



Distance on line	25.70 chs.
Distance by triangulation	46.32 chs.
	72.02 chs.

72.02 To point B of triangulation at top of high sandstone ridge, 930 ft. above the ¼ sec. cor., bears N. 70° E. and S. 70° W.; descend abruptly over broken N. slope.

80.00 On broken N. slope, 120 ft. below ridge.

Set an iron post, 3 ft. long, 2 ins. diam., 30 ins. in the ground to solid rock and in a mound of stone to top, for cor. of secs. 3, 4, 9, and 10, with brass cap marked

T42S	R4E
S4	S3
S9	S10

1934

Deposit a sandstone, 18 x 18 x 6 ins., at base of post, marked with a cross (X).

Land, broken and mountainous, with a general southerly and northerly exposure and drainage.

Soil, shallow blue clay and shale; 4th rate. Shale and sandstone formation.

Undergrowth, very scattered shadscale.

No timber.

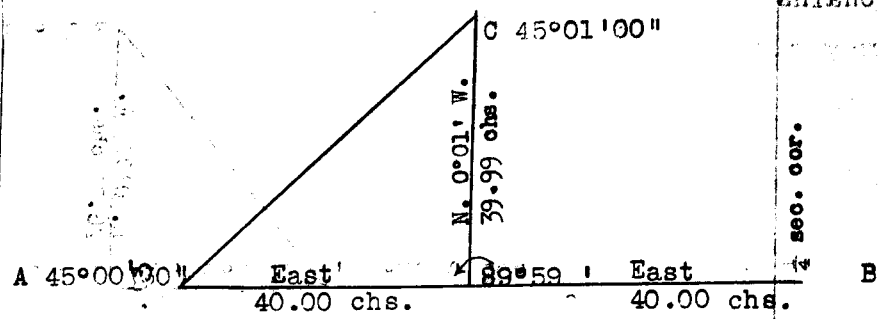
Poor grazing land.

N. 89°59' E., on random line, bet. secs. 3 and 10.

40.00 Set temp. ¼ sec. cor.

The line to the E. of this point passes over the inaccessible breaks of a deep gulch over which I am unable to chain, I therefore determine the distance to the true point for the cor. of secs. 2, 3, 10, and 11, by triangulation as follows. Designate the temp. ¼ sec. cor. A, the ¼ sec. cor. secs. 2 and 11 as B, and the ¼ sec. cor. secs. 2 and 3 as C. From A, B bears East, and from A, BC subtends an angle of 45°00'00". Vertical angle from A. to true point for cor. of secs. 2, 3, 10, and 11, is minus 4°08'. All angles checked by repetition.

Chains



Distance on line	40.00 chs.
Distance by triangulation	40.00 chs.
	80.00 chs.

80.00 To point of triangulation at a point 1 lk. N. of the true point for the cor. of secs. 2, 3, 10, and 11, which is S. 0°01' E., 4.56 chs. dist. from the witness cor. to the cor. of said secs.

Thence:

From the true point for the cor. of secs. 2, 3, 10, and 11.

West, on true line, bet. secs. 3 and 10.

By triangulation; descend abruptly over inaccessible SW. face of shale breaks, through very scattered undergrowth.

15.00 Approximate distance; bottom of deep gulch with vertical walls, 80 ft. high, 390 ft. below point for sec. cor., drains SW., 5.00 chs. dist. to junction with main gulch from the E. which at this point drains SW.; ascend abruptly over SE. face of series of vertical shale and sandstone ledges.

40.00 On rim of vertical ledge, 80 ft. high, 580 ft. above gulch, bears NW. and SE.

Set an iron post, 3 ft. long, 1 in. diam., 6 ins. in the ground to solid rock and in a mound of stone to top, for ¼ sec. cor., with brass cap marked

¼ S3 / S10

1934

Deposit a sandstone 8 x 8 x 6 ins.; at base of post, marked with a cross (X).

Thence ascend abrupt SE. slope of main ridge to the W., over broken shale and sandstone breaks.

61.50 Top of main ridge, 350 ft. above the ¼ sec. cor., bears NE. and S. 70° W.; descend steep ledgy NW. slope.

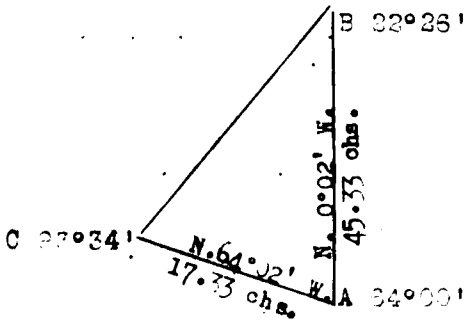
74.30 Head of gulch, 175 ft. below ridge, drains NW.; continue descent over ledgy NW. slope.

80.00 The cor. of secs. 3, 4, 9, and 10, 110 ft. below head of gulch.

Land, broken and mountainous, with a general southeasterly and northwesterly exposure and drainage.

Soil, shallow blue clay and shale; 4th rate. Shale and sandstone formation.

Chains	
	Undergrowth, scattered short shadscale and weeds.
	No timber.
	Poor grazing land.
	N. 0°02' W., on random line, bet. secs. 3 and 4.
	The line to the N. of the cor. of secs. 3, 4, 9, and 10, cross two deep boxed canyons with high vertical walls over which I am unable to chain, I therefore determine the distance by triangulation as follows. Erect flag A at a point S. 0°02' E., 7.34 chs. dist. from the cor. of secs. 3, 4, 9, and 10, and flag B on line to the N. From A, survey base line AC, N. 64°02' W., 17.33 chs. dist. and erect flag C. From C, AB subtends an angle of 93°34'. From B, AC subtends an angle of 22°26'. Vertical angle from A to B is minus 2°27'. All angles checked by repetition and base line double chained.



Distance by triangulation	45.33 chs.
Distance from A to sec. cor.	7.34 chs.
	37.99 chs.

37.99	To point B of triangulation.
40.00	Set temp. ¼ sec. cor.
80.10	Intersect the N. bdy. of the township, 8 lks. E. of the cor. of secs. 3, 4, 33, and 34, heretofore described.
	Thence:
	S. 0°03' E., on true line, bet. secs. 3 and 4.
	Over rolling top of high mesa near W. rim, through dense short undergrowth of black and bitter brush.
7.00	Top of SW. rim of mesa, bears NW. and SE.; descend abrupt SW. breaks of mesa over broken sandstone ledges and shale breaks.
27.00	Gulch, 600 ft. below mesa, drains SW.; ascend steep ledgy NW. slope.
40.10	On steep ledgy NW. slope, 330 ft. above gulch.
	Set an iron post, 3 ft. long, 1 in. diam., 20 ins. in the ground to solid rock and in a mound of stone to top, for ¼ sec. cor., with brass cap marked

¼

S4 | S3

1934

Chains

Deposit a sandstone, 10 x 10 x 8 ins., at base of post, marked with a cross (X).

41.50 Spur, 20 ft. above the ¼ sec. cor., projects S. 70° W.; descend abrupt S. slope.

42.11 The line to the S. of this point passes over broken inaccessible N. breaks of a deep gulch to the S.

55.00 Approximate distance; bottom of deep boxed gulch with vertical walls 100 ft. high, 420 ft. below spur, drains S. 70° W.; ascend abruptly over inaccessible S. breaks of gulch.

70.00 Approximate distance; top of high sharp spur, 380 ft. above gulch, projects S. 70° W.; descend abruptly over broken inaccessible S. breaks of spur.

75.00 Approximate distance; bottom of gulch, rimmed with vertical inaccessible walls, 30 ft. high, 320 ft. below spur, drains S. 70° W.; ascend abruptly over broken inaccessible S. breaks of gulch.

80.10 The cor. of secs. 3, 4, 9, and 10, 380 ft. above bottom of gulch.

Land, broken and mountainous with a general northerly and southerly exposure and drainage into deep gulches draining S. 70° W.

Soil, shallow blue clay and shale; 4th rate. Sandstone and shale formation.

Undergrowth, scattered short shadscale, black brush, Brigham tea, and weeds.

Fair grazing land.

No timber.

From the cor. of secs. 4, 5, 32, and 33, on the S. bdy. of the township, which is an iron post, 2 ins. diam., set, marked and witnessed as described in the official records of the survey of T. 47 S., R. 4 E., of this group.

N. 0°07' W., bet. secs. 32 and 33.

Over general E. slope of broken bench land, through scattered short undergrowth.

[illegible].10 Small wash, 10 lks. wide, 1 ft. deep, drains N. 80° E.

35.10 Draw, 35 ft. deep, drains E.

40.00 In small depression, drains E.; mark a cross (X) on the surfacerock, over which:

Set an iron post, 3 ft. long, 1 in. diam., in a large mound of stone, for ¼ sec. cor., with brass cap marked

¼

S32 | S33

1917

No other suitable accessories available.

Chains	
43.70	Outcropping of coal, 3 ft. thick, bears NE. and SW.
52.80	Top of small ridge, bears E. and W.
59.30	Draw, 25 ft. deep, drains E.
65.00	Outcropping of coal, 3 ft. thick, bears NW. and SE.
80.00	In small depression, 20 ft. deep, drains E.
	Set an iron post, 3 ft. long, 2 ins. diam., 27 ins. in the ground, for cor. of secs. 28, 29, 32, and 33, with brass cap marked

T42S	R4E
S29	S28
S32	S33

1917

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

Land, rolling and broken, with a general easterly exposure and drainage.

Soil, shallow loose sand, clay, and rock; 4th rate. Sandstone and shale formation.

Undergrowth, scattered short shadscale and black brush.

No timber.

Fair grazing land.

East, on random line, bet. secs. 28 and 33.

40.00	Set temp. ¼ sec. cor.
79.98	Intersect the cor. of secs. 27, 28, 33, and 34.

Thence:

West, on true line, bet. secs. 28 and 33.

Descend gradual W. slope of broken bench land, through scattered short undergrowth.

11.90	Small wash, 10 lks. wide, 2 ft. deep, drains SW.
39.99	On gradual NW. slope of surfacerock, 75 ft. below sec. cor.; mark a cross (X), over which:

Set an iron post, 3 ft. long, 1 in. diam., in a large mound of stone, for ¼ sec. cor., with brass cap marked

¼ S28 / S33

1917

No other suitable accessories available.

41.00	Top of E. rim of Warm Creek, bears N. and S.; descend gradually over rocky W. slope.

SUBDIVISION OF T. 4S S., R. 4 E.

Chains	
50.50	Warm Creek, stream of alkali water, 2 lks. wide, 2 ins. deep, in channel, 2.00 chs. wide, 70 ft. deep, flows S., about 20.00 chs. dist. and sinks. Stream heads about 20.00 chs. to the N. of line.
59.00	Top of W. rim of Warm Creek, 75 ft. above stream, bears N. and S.; thence over broken top of bench.
79.98	The cor. of secs. 28, 29, 32, and 33.
	Land, rolling and broken bench with a general easterly and westerly exposure and drainage into Warm Creek.
	Soil, loose sand, clay, and surfacerock; 3rd rate. Sandstone and shale formation.
	Undergrowth, shadscale, black brush, and greasewood.
	No timber.
	Poor grazing land.
	N. 0°03' W., bet. secs. 28 and 29.
	Ascend gradual E. slope of broken bench land through scattered short undergrowth.
2.15	Rocky point, 30 ft. above cor., projects E., 3.00 chs. dist. to end; descend gradually.
18.75	Gulch, 40 ft. deep, drains NE.; ascend gradually.
23.70	Spur, 40 ft. above gulch, projects E., 4.00 chs. dist. to end; descend abrupt N. slope.
27.50	Gulch, 115 ft. below spur, drains NE.; ascend gradually.
33.10	Gulch, 45 ft. deep, drains E.
36.40	Top of right rim of Warm Creek, 75 ft. high, bears SE., and N. 70° W., 5.00 chs. dist., thence N.
	At this point:
	Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground, for witness cor. to the ¼ sec. cor. of secs. 28 and 29, with brass cap marked
	¼ W C / S29 | S28 / 1917
	raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.
37.60	Bottom of dry channel of Warm Creek, 1.00 chs. wide, and 75 ft. below rim, drains SE.; thence along bottom of channel.
40.00	True point for the ¼ sec. cor. falls in channel of Warm Creek, where it is impracticable to set a permanent cor.
40.35	Leave channel of Warm Creek, bears N. 30° E. and S. 10° W.; thence over bottom lands.

Chains	
41.00	From this point, a small seep of good water at the head of a boxed gulch, bears about S. 65°00' E., 30.00 chs. dist. This seep is the only water in the township that is free from alkali.
52.20	Recross channel of Warm Creek, drains S. 20° E.; ascend gradual SW. slope.
65.50	Rocky spur, 90 ft. above channel of Warm Creek, projects W., 2.00 chs. dist. to end; descend gradually.
68.30	Ravine, 60 ft. below spur, drains SW. Junction of this ravine with a small ravine from the N., bears SW., 25 lks. dist.; ascend gradually.
76.75	The S. point of spur bet. two ravines from the N., 50 ft. high; thence along W. side of spur.
80.00	On E. edge of ravine draining S.
	Set an iron post, 3 ft. long, 2 ins. diam., 27 ins. in the ground, for cor. of secs. 20, 21, 28, and 29, with brass cap marked

T42S	R4E
S20	S21
S29	S28

1917

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

Land, broken by breaks of gulches draining into Warm Creek.

Soil, shallow loose sand, clay, gravel, and rock; 3rd rate. Sandstone and shale formation.

Undergrowth, scattered short shadscale, black brush, and greasewood.

No timber.

Fair grazing land.

East, on random line, bet. secs. 21 and 28.

40.00	Set temp. ¼ sec. cor.
79.98	Intersect the cor. of secs. 21, 22, 27, and 28.

Thence:

West, on true line, bet. secs. 21 and 28.

Descend gradual SW. slope of rolling and broken bench land, through scattered short undergrowth.

23.00	Wash, 20 lks. wide, 4 ft. deep, drains SW.
39.99	On rolling bench land.

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

Chains	
	S21 / ¼ / S28 1917 raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor.
59.25	Ravine, 20 ft. deep, drains SW.
75.40	Main ravine, 15 ft. deep, drains SW.
78.10	Spur, 15 ft. above ravine, projects S.; descend gradual W. slope:
79.98	The cor. of secs. 20, 21, 28, and 29, 30 ft. below spur.
	Land, rolling and broken, with a general southwesterly exposure and drainage.
	Soil, shallow clay, sand, and rock; 3rd rate. Sandstone and shale formation.
	Undergrowth, scattered short shadscale and greasewood.
	No timber.
	Fair grazing land.
	N. 0°03' W., bet. secs. 20 and 21.
	Ascend gradual S. slope of broken bench land, through scattered short undergrowth.
1.40	Wash in bottom of ravine, 15 ft. deep, drains S. 10° W.
17.80	Ravine, 20 ft. deep, drains SE.; 7.00 chs. dist., thence SW.
22.00	Recross ravine, drains SW.
40.00	On gradual S. slope, 65 ft. above sec. cor.; mark a cross (X) on the surfacerock, over which:
	Set an iron post, 3 ft. long, 1 in. diam., in a large mound of stone, for ¼ sec. cor., with brass cap marked ¼ S20 | S21 1917 raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.
	Continue over rolling and broken S. slope of bench land.
80.00	On gradual S. slope.
	Set an iron post, 3 ft. long, 2 ins. diam., 27 ins. in the ground, for cor. of secs. 16, 17, 20, and 21, with brass cap marked T43S | R4E S17 | S16 S20 | S21 1917

Chains	
	raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.
	Land, broken and rolling, with a general southerly exposure and drainage.
	Soil, shallow loose sand, clay, gravel, and rock; 3rd ar rate. Sandstone and shale formation.
	Undergrowth, scattered short shadscale and weeds.
	No timber.
	Fair grazing land.
	East, on random line, bet. secs. 16 and 21.
40.00	Set temp. ¼ sec. cor.
79.96	Intersect the cor. of secs. 15, 16, 21, and 22.
	Thence:
	West, on true line, bet. secs. 16 and 21.
	Over gradual S. and SW. slopes of rolling bench land, through scattered short undergrowth.
10.00	Enter dark loose blue clay and bad land formation, bears NE. and SW.
14.00	Wash, 10 lks. wide, 6 ft. deep, drains SW.
39.98	On top of low clay spur, projects S.
	Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground, for ¼ sec. cor., with brass cap marked ¼ S16/S21 1917
	dig pits, 18 x 18 x 12 ins., E. and W. of post, 3 ft. dist.
57.70	Leave clay and bad land formation and enter gravelly and rocky land, bears NW. and SE.
74.00	Wash, 20 lks. wide, 3 ft. deep, drains S. 30° E.
79.96	The cor. of secs. 16, 17, 20, and 21.
	Land, rolling andbroken, with a general southerly and southwesterly exposure and drainage.
	Soil, shallow loose sand, clay, gravel, and rock; 4th rate. Sandstone and shale formation.
	Undergrowth, scattered short shadscale and weeds.
	No timber.
	Poor grazing land.

Chains	Description
	N. 0°03' W., bet. secs. 16 and 17.
	Ascend gradual S. slope of rolling bench land, through scattered short undergrowth.
40.00	On gradual S. slope, 50 ft. above sec. cor.
	Set an iron post, 3 ft. long, 1 in. diam., 20 ins. in the ground to solid rock and in a mound of stone to top, for ¼ sec. cor., with brass cap marked
	¼ S17 | S16 1933
	Deposit a sandstone, 16 x 16 x 10 ins., at base of post, marked with a cross (X).
	Continue gradual ascent over general S. slope of bench.
37.80	Draw, 10 ft. deep, drains SW.
37.00	On gradual S. slope, 75 ft. above the ¼ sec. cor.
	Set an iron post, 3 ft. long, 2 ins. diam., 27 ins. in the ground, for cor. of secs. 8, 9, 16, and 17, with brass cap marked
	T42S | R4E S8 | S9 S17 | S16 1933
	raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.
	Land, rolling, with a general southerly exposure and drainage.
	Soil, shallow loose gravel; 3rd rate. Sandstone and shale formation.
	Undergrowth, scattered short shadscale, black brush, and weeds.
	No timber.
	Fair grazing land.
	———
	East, on random line, bet. secs. 9 and 16.
40.00	Set temp. ¼ sec. cor.
80.00	Intersect the cor. of secs. 9, 10, 15, and 16.
	Thence:
	West, on true line, bet. secs. 9 and 16.
	Descend abrupt W. slope of broken mountainous land, through scattered short undergrowth.
38.00	Blue clay draw, 320 ft. below sec. cor., drains N., 10.00 chs. dist. to main draw draining SW.; ascend gradual E. slope of clay hill.

Chains	
40.00	On gradual E. slope of clay hill, 20 ft. above draw.
	Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground, for ¼ sec. cor., with brass cap marked
	¼ S9/S16
	1933
	raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor.
52.00	Bottom of main draw, 50 ft. deep, drains SW.; ascend steep SE. slope.
58.20	Spur, 75 ft. above draw, projects SW., 3.00 chs. dist. to end; descend steep NW. slope.
66.00	Draw, 70 ft. below spur, heads N. 30° W., 20.00 chs. dist., and drains S. 30° E., 7.00 chs. dist. to junction with main draw which drains SW.
67.70	Enter rolling bench land, 70 ft. above draw, bears N. 30° W. and S. 30° E.
74.90	Small draw, 5 ft. deep, drains S. 20° W., 12.00 chs. dist., thence SW.
80.00	The cor. of secs. 8, 9, 16, and 17.
	Land, rolling and broken, with a general northerly and southerly exposure and drainage.
	Soil, shallow blue clay, sand, and gravel; 4th rate. Shale and sandstone formation.
	Undergrowth, scattered short shadscale and weeds.
	No timber.
	Fair grazing land.
	N. 0°03' W., bet. secs. 8 and 9.
	Ascend gradual S. slope of broken bench land, through scattered short undergrowth.
10.00	Base of the Smoky Mountains and abrupt ascent over ledgy S. breaks of a high sharp ridge to the N., bears E. and W.
37.00	On top of high sharp sandstone ridge, 1050 ft. above sec. cor., bears E. and W.
	Set an iron post, 3 ft. long, 1 in. diam., 12 ins. in the ground to solid rock and in a mound of stone to top, for witness cor. to the ¼ sec. cor. secs. 8 and 9, with brass cap marked
	¼ WC / S8 | S9 / 1934
	Deposit a sandstone, 10 x 8 x 8 ins., at base of post, marked with a cross (X).

Chains	
	Thence descend abruptly over nearly inaccessible N. brea of ridge.
40.00	True point for the ¼ sec. cor. secs. 8 and 9, falls on inaccessible N. face of ledges, where it is impracticable to set a cor.
75.00	Bottom of main gulch, 1020 ft. below ridge, drains SW.; ascend abrupt broken S. slope.
80.00	On abrupt S. slope, 60 ft. above draw, near base of shale ledge.
	Set an iron post, 3 ft. long, 2 ins. diam., 20 ins. in the ground to solid rock and in a mound of stone to top, for cor. of secs. 4, 5, 8, and 9, with brass cap marked

T42S	R4E
S5	S4
S8	S9

1934

	Deposit a sandstone, 12 x 12 x 10 ins., at base of post, marked with a cross (X).
	Land, broken and mountainous, with a general northerly and southerly exposure and drainage.
	Soil, shallow blue clay and rock; 4th rate. Sandstone and shale formation.
	Undergrowth, scattered shadscale and weeds.
	No timber.
	Poor grazing land.

	East, on random line, bet. secs. 4 and 9.
40.00	Set temp. ¼ sec. cor.
80.00	Intersect the cor. of secs. 3, 4, 9, and 10.
	Thence:
	West, on true line, bet. secs. 4 and 9.
	Descend gradually along steep N. slope of broken mountainous land, through scattered short undergrowth.
15.50	Spur, 20 ft. below cor., projects NW.; descend abrupt W. slope over ledges and shale breaks.
17.00	Top of sandstone rim, 30 ft. high, bears NW. and SE.
27.00	Gulch, 320 ft. below sec. cor., drains N., about 10.00 chs. dist. to main gulch draining S. 60° W.; ascend abrupt ledgy E. slope.
32.30	Spur, 75 ft. above gulch, projects N.; descend abrupt W. slope.
38.00	Draw, 160 ft. below spur, drains N.; ascend steep NE. slope.
40.00	On steep NE. slope, 50 ft. above draw.

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Chains	
	Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground, for ¼ sec. cor., with brass cap marked
	¼ S4 / S9 1934
	raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor.
40.80	Spur, 35 ft. above the ¼ sec. cor., projects N.; descend abruptly over ledgy NW. slope.
58.50	Bottom of main gulch, 560 ft. below spur, drains S. 85° W.; thence descend gradually along broken N. side of gulch.
75.00	Begin gradual ascent over steep nearly inaccessible S. face of blue shale breaks.
80.00	The cor. of secs. 4, 5, 8, and 9, 60 ft. above gulch.
	Land, broken and mountainous, with a general northwesterly exposure and drainage.
	Soil, shallow blue clay and shale; 4th rate. Shale and sandstone formation.
	Undergrowth, scattered shadscale, black brush, and weeds.
	No timber.
	Poor grazing land.
	N. 0°07' W., on random line, bet. secs. 4 and 5.
40.00	Set templ ¼ sec. cor.
80.06	Intersect the N. bdy. of the township, 7 lks. W. of the cor. of secs. 4, 5, 32, and 33, heretofore described.
	Thence:
	S. 0°04' E., on true line, bet. secs. 4 and 5.
	Ascend gradual N. slope of broken mountainous land, through scattered undergrowth of short shadscale, black brush, and weeds.
3.00	Spur, 10 ft. above cor., projects W., 5.00 chs. dist. to end; descend abruptly over ledgy SE. slope.
15.00	Boxed gulch, 120 ft. below spur, drains W., 5.00 chs. dist., thence SW.; ascend gradually over broken W. face of ledges.
25.00	Spur, 210 ft. above gulch, projects N. 80° W.; descend gradually along broken W. slope.
40.06	On broken SW. slope, 490 ft. below spur.
	Set an iron post, 3 ft. long, 1 in. diam., 20 ins. in the ground to solid rock and in a mound of stone to top, for ¼ sec. cor., with brass cap marked

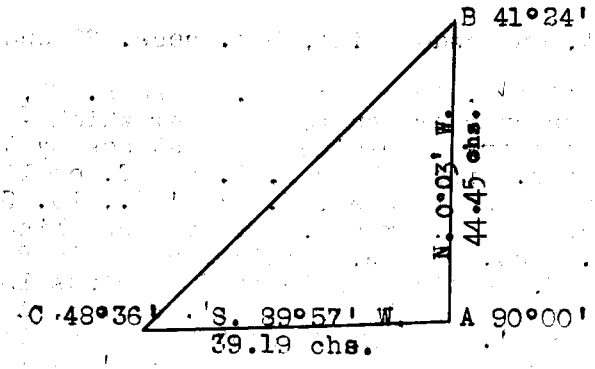
Chains	
	85 ¼ 84 1934
	Deposit a sandstone, 8 x 8 x 6 ins., at base of post, marked with a cross (X).
	Thence descend abruptly over steep SW. slope.
41.50	Gulch, 80 ft. below the ¼ sec. cor., drains N. 80° W.; ascend steep N. slope over ledges.
46.00	Spur, 150 ft. above gulch, projects N. 80° W.; descend gradually along steep W. slope.
52.00	Gulch, 120 ft. below spur, drains S. 60° W.; ascend steep NW. slope.
62.80	Top of high main spur, 560 ft. above gulch, slopes to the SW.; descend steep SW. slope.
79.00	Top of shale ledge, 60 ft. high, bears N. 80° E. and S. 80° W.
79.80	Base of ledge, bears N. 80° E. and S. 80° W.
80.06	The cor. of secs. 4, 5, 8, and 9, 680 ft. below spur.
	Land, broken and mountainous, with a general westerly exposure and drainage.
	Soil, shallow loose clay and shale; 4th rate. Sandstone and blue shale formation.
	Undergrowth, scattered short shadscale, black brush, and weeds.
	No timber.
	Fair grazing land.

From the cor. of secs. 5, 6, 31, and 32, on the S. bdy. of the township, which is an iron post, 2 ins. diam., set, marked and witnessed as described in the official records of the survey of T. 43 S., R. 4 E., of this group.

N. 0°03' W., bet. secs. 31 and 32.

The line to the N. of the cor. secs. 5, 6, 31, and 32, passes over high inaccessible ledges or S. breaks of spur over which I am unable to chain, I therefore determine the distance by triangulation as follows. Erect flag A at the cor. secs. 5, 6, 31, and 32, and flag B on line to the N. From A, survey base line AC, S. 89°57' W., 39.19 chs. dist. and erect flag C. From C, AB subtends an angle of 48°36'. From B, AC subtends an angle of 41°24'. Vertical angle from A. to B is plus 21°00'. All angles checked by repetition and base line double chained.

Chains



Distance by triangulation 44.45 chs.
Distance by return measurement .27 chs.
44.18 chs.

40.00 True point for the ¼ sec. cor. falls on inaccessible S. breaks, where it is impracticable to reach the cor. point.

44.18 On top of spur, 1150 ft. above sec. cor., projects E.

Set a hard red sandstone, 30 x 8 x 4 ins., 22 ins. in the ground, marked ¼ WC on W. face, for witness cor. to the ¼ sec. cor. secs. 31 and 32,

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

No iron post available for cor.

44.45 To point B of triangulation.

45.40 Begin abrupt descent over ledgy NE. and N. slopes.

79.00 Bottom of canyon, 350 ft. below spur, drains NE.; ascend abrupt E. slope.

80.00 On abrupt E. slope, 70 ft. above bottom of canyon.

Set an iron post, 3 ft. long, 2 ins. diam., 27 ins. in the ground, for cor. of secs. 29, 30, 31, and 32, with brass cap marked

T43S	R4E
S30	S29
S31	S32

1917

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

Land, broken and mountainous, with a general southerly and northeasterly exposure and drainage.

Soil, shallow gravel, clay, and sand; 4th rate. Sandstone and shale formation.

Undergrowth, scattered short shadscale.

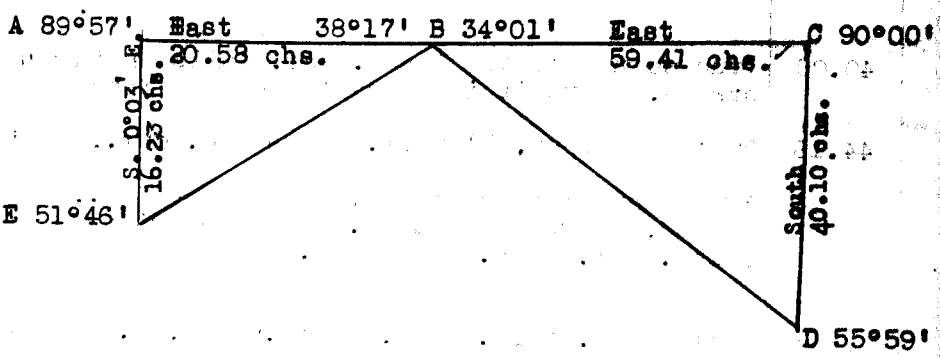
No timber.

Poor grazing land.

Chains

East, on random line, bet. secs. 29 and 32.

The line E. from the cor. of secs. 29, 30, 31, and 32, passes over broken ledges over which I am unable to chain. I therefore determine the distance by triangulation as follows. Erect flags A, B, and C. on line E. From A, survey base line AE, S. 0°03' E., 16.23 chs. dist. and erect flag E. From C, survey base line CD, South, 40.10 chs. dist. From A, vertical angle to B is plus 34°45'. From B, vertical angle to C is minus 13°30'. From E, AB subtends an angle of 51°46'. From B, AE subtends an angle of 38°17'. From D, CB subtends an angle of 55°59'. From B, CD subtends an angle of 34°01'. All angles checked by repetition and base lines double chained.



Distance by triangulation A to B	20.58 chs.
Distance by triangulation B to C	59.41 chs.
	79.99 chs.
Distance by return measurement	39.995 chs.
	39.995 chs.

20.58 To point B of triangulation.

79.99 To point C of triangulation at a point 7 lks. N. of the cor. of secs. 28, 29, 32, and 33.

Thence:

N. 89°57' W., on true line, bet. secs. 29 and 32.

Ascend broken E. slope of bench land through scattered undergrowth.

1.60 Head of small depression, drains E.

34.00 Base of abrupt ascent over broken E. breaks of a high sharp ridge to the W., bears N. and S.

39.995 In small blue clay depression, drains SE., 1.50 chs. dist. thence E., 75 ft. above sec. cor.

Set an iron post, 3 ft. long, 1 in. diam., 15 ins. in the ground to solid rock and in a mound of stone to top, for ¼ sec. cor., with brass cap marked

$$\frac{1}{4}\frac{S29}{S32}$$

1934

Deposit a sandstone, 16 x 12 x 10 ins., at base of post, marked with a cross (X).

Thence ascend abruptly over nearly inaccessible E. breaks of high ridge to the W.

Chains	
55.00	Approximate distance; Vertical sandstone ledge, 75 ft. high, bears N. 30° E. and S. 30° W.
59.41	Top of high narrow sandstone ridge, 950 ft. above sec. cor., bears N. and S.; mark a cross (X) on the surfacerock, over which:
	Set an iron post, 3 ft. long, 1 in. diam., in a large mound of stone, for witness cor. to the ¼ sec. cor. secs. 29 and 32, with brass cap marked

$$\frac{1}{4}\ \frac{829}{832}\ \text{WC}$$

1917

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

Thence descend abruptly over inaccessible ledges on W. breaks of ridge.

79.25 Bottom of canyon, 1030 ft. below ridge, drains N. [illegible] E.; ascend abrupt E. slope.

79.99 The cor. of secs. 29, 30, 31, and 32, 70 ft. above bottom of canyon.

Land, broken ledges with a general easterly exposure and drainage.

Soil, shallow blue clay, gravel, and ledges; 4th rate. Sandstone and shale formation.

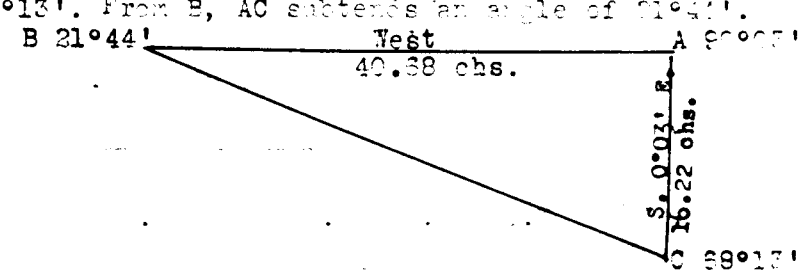
Undergrowth, short shadscale.

No timber.

Poor grazing land.

West, on random line, bet. secs. 30 and 31.

The line to the W. of the cor. secs. 29, 30, 31, and 32, ascend the inaccessible E. breaks of ridge. To determine the distance to top of ridge, I triangulate as follows. Erect flag A at the cor. secs. 29, 30, 31, and 32, and flag B on line W. From A, survey base line AC, S. 0°03' E., 16.22 chs. dist. and erect flag C. Vertical angle from A to B is plus 19°07'. All angles checked by repetition and base line double chained. From C, AB subtends an angle of 68°13'. From B, AC subtends an angle of 21°44'.



Distance by triangulation	40.68 chs.
Distance by return measurement	.68 chs.
	40.00 chs.

Chains	
40.00	Set temp. ¼ sec. cor.
40.68	To point B of triangulation.
77.95	Intersect the W. bdy. of the township, 7 links S. of the cor. secs. 25, 30, 31, and 36, which is an iron post, 2 ins. diam., set, marked and witnessed as described in the official records of the survey of T. 42 S., R. 3 E.
	Thence:
	S. 89°57' E., on true line, bet. secs. 30 and 31.
	Along broken S. slope of mountainous land, through scattered short undergrowth.
17.40	Sandstone spur, projects S., 5.00 chs. dist.; thence SW.; descend abrupt SE. slope.
27.35	Gulch, 230 ft. below spur, drains SW.; ascend abrupt NW. slope.
36.45	Top of high main ridge, 100 ft. above gulch, bears N. and S.; descend abruptly over broken E. slope.
37.95	On abrupt E. slope, 75 ft. below ridge.
	Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground, fo ¼ sec. cor., with brass cap marked
	¼ S30 / S31 1917
	of stone, 2 ft. base, 1½ ft. high, N. of cor. raise a mound
	Thence descend abruptly over inaccessible sandstone ledges and shale breaks.
77.95	The cor. of secs. 29, 30, 31, and 32, 865 ft. below the ¼ sec. cor.
	Land, broken and mountainous, with a general southwesterly and northeasterly exposure and drainage.
	Soil, shallow blue clay, shale, and rock; 4th rate; Shale and sandstone formation.
	Undergrowth, scattered short shadscale and weeds.
	No timber.
	Poor grazing land.
	Coal outcroppings were found along E. half mile.
	N. 0°03' W., bet. secs. 29 and 30.
	Ascend gradual N. slope of broken mountainous land, through scattered short undergrowth.
2.70	Clay spur, 30 ft. above cor., projects E., 1.00 chs. dist. to end; descend abrupt NE. slope.

Chains	
4.80	Bottom of canyon, 100 ft. below spur, drains NW., 1.00 chs. dist., thence N.; ascend gradually.
16.25	Top of ascent on E. side of canyon, 60 ft. above bottom, bears E. and W.; descend gradually along W. slope.
31.50	Recross bottom of canyon, 150 ft. below top of ascent, drains NE., 1.00 chs. dist., thence N.; ascend gradually.
38.70	Top of ascent on W. slope, 30 ft. above canyon; bears NE. and SW.; descend gradually.
40.00	On W. side of canyon, 5 ft. above bottom.
	Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground, for ¼ sec. cor., with brass cap marked

¼

S30 | S29

1917

raise a mound of stone, 3 ft. base, 1½ ft. high, W. of cor.

40.50	Recross bend in same canyon, drains NE. from S. 20° E.; thence along broken NE. slope.
53.00	Ravine, 15 ft. deep, drains NE.
60.00	Leave mountainous land and enter broken bench land, bears NW. and SE.
80.00	On gradual NW. slope, 225 ft. below top of ridge. 29, 30, 31, and 32.
	Set an iron post, 3 ft. long, 2 ins. diam., 8 ins. in the ground to solid rock and in a mound of stone to top, for cor. of secs. 19, 20, 29, and 30, with brass cap marked

T43S | R4E
S19 | S20

S30 | S29

1917

raise a mound of stone, 3 ft. base, 1½ ft. high, W. of cor.

Land, broken, with a general northerly exposure and drainage.

Soil, blue clay, gravel, and rock; 4th rate. Sandstone and shale formation.

Undergrowth, scattered short shadscale and greasewood.

No timber.

Poor grazing land.

Outcroppings of coal found along line.

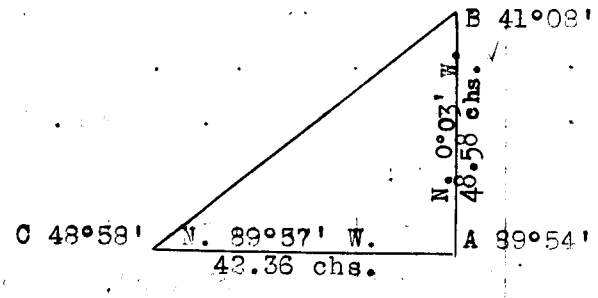
S. 89°57' E., on random line, bet. secs. 30 and 29.

40.00	Set temp. ¼ sec. cor.

Chains	
80.08	Intersect the N. and S. line, 2 lks. N. of the cor. of secs. 20, 21, 28, and 29.
	Thence:
	N. 89°56' W., on true line, bet. secs. 20 and 29.
	Over rolling and broken bench land, through scattered short undergrowth.
0.30	Bottom of ravine, 5 ft. below cor., drains S. 10° W.
27.00	Leave bench land and enter bottom lands of Warm Creek, bears N. 70° W. and S. 70° E.
40.04	Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground, for ¼ sec. cor., with brass cap marked ¼ S20 / S29 1917 raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor.
43.30	Wash, 50 lks. wide, 2 ft. deep, drains SE., 3.00 chs. dist. to Warm Creek. Wash is at the mouth of Smoky Hollow which drains from the N.
59.50	Dry channel of Warm Creek, 1.00 chs. wide, drains S. 60° E.
80.08	The cor. of secs. 19, 20, 29, and 30.
	Land, rolling, with a general southerly exposure and drainage.
	Soil, shallow blue clay, gravel, and rock; 4th rate. Shale and sandstone formation.
	Undergrowth, short shadscale and greasewood.
	No timber.
	Fair grazing land.

	N. 89°57' W., on random line, bet. secs. 19 and 30.
40.00	Set temp. ¼ sec. cor.
77.90	Intersect the cor. of secs. 19, 24, 25, and 30, on the W. bdy. of the township, which is an iron post, 2 ins. diam., set, marked and witnessed as described in the official records of the survey of T. 42 S., R. 3 E.
	Thence:
	S. 89°57' E., on true line, bet. secs. 19 and 30.
	Descend gradually over broken E. slope of mountainous land, through scattered short undergrowth.
37.90	On abrupt N. slope, 125 ft. below sec. cor.
	Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground, for ¼ sec. cor., with brass cap marked

Chains	
	¼ S19/S30
	1917
	raise a mound of stone, 2 ft. base; 1½ ft. high, N. of cor.
43.30	Wash, 15 lks. wide, 4 ft. deep, drains N. 10° E.
46.00	Leave mountainous land and enter rolling bench land, bears NW. and SE.; continue gradual descent.
61.80	Wash, 10 lks. wide, 5 ft. deep, drains N., 1.00 chs. dist., thence E.
69.10	Wash, 8 lks. wide, 3 ft. deep, drains NE.
74.90	Small wash, 5 lks. wide, 3 ft. deep, drains N. 10° E.
77.90	The cor. of secs. 19, 20, 29, and 30, 70 ft. below the ¼ sec. cor.
	Land, broken and rolling, with a general easterly and northeasterly exposure and drainage.
	Soil, deep gravel and blue clay; 4th rate. Sandstone and shale formation.
	Undergrowth, scattered short shadscale and greasewood.
	No timber.
	Fair grazing land.
	N. 0°03' W., bet. secs. 19 and 20.
	Descend gradual NE. slope of broken bench land, through scattered undergrowth.
5.80	Wash, 15 lks. wide, 5 ft. deep, drains NE.
21.30	Dry channel of Warm Creek, 100 lks. wide, drains E., 6.00 chs. dist., thence SE.; ascend gradually.
30.00	Base of high inaccessible bluff, bears E. and W., over which I am unable to chain, I therefore determine the distance by triangulation as follows. Erect flag A at the cor. of secs. 19, 20, 29, and 30, and flag B on line to the N. From A, survey base line AC, N. 89°57' W., 42.36 chs. dist. and erect flag C. From C, AB subtends an angle of 48°58'. From B, AC subtends an angle of 41°08'. Vertical angle from A to B is plus 21°07'. All angles checked by repetitiion and base line double chained.



Distance by triangulation 48.58 chs.

Chains		Bearing
40.00	True point for the ¼ sec. cor. falls on broken S. face of bluff, where it is impracticable to set a cor.	
48.58	To point B of triangulation, on top of S. edge of high bluff, 1250 ft. above Warm Creek, bears W., 4.00 chs. dist., thence N., and E., 7.00 chs. dist., thence N.; thence over broken top of butte.	
48.64	On top of butte, mark a cross (X) on the surfacerock, on which:	
	Set an iron post, 3 ft. long, 1 in. diam., in a large mound of stone to top, for witness cor. to the ¼ sec. cor. secs. 19 and 20, with brass cap marked	
	¼ S19 | S20 WC 1917	
	of stone, 2 ft. base, 1½ ft. high, W. of cor. raise a mound	
70.40	Top of N. rim of Butte, bears NW. and SE.; descend abrupt NE. slope over ledges.	
80.00	On abrupt NE. slope of butte, 350 ft. below top.	
	Set an iron post, 3 ft. long, 2 ins. diam., 27 ins. in the ground, for cor. of secs. 17, 18, 19, and 20, with brass cap marked	
	T43S | R4E S18 | S17 S19 | S20 1917	
	of stone, 2 ft. base, 1½ ft. high, W. of cor. raise a mound	
	Land, broken, with a general southerly and northeasterly exposure and drainage.	
	Soil, shallow gravel, clay, and rock; 4th rate. Sandstone and shale formation.	
	Undergrowth, scattered shadscale and greasewood.	
	No timber.	
	Poor grazing land.	
	S. 89°56' E., on random line, bet. secs. 17 and 20.	
40.00	Set temp. ¼ sec. cor.	
80.00	Intersect the cor. of secs. 16, 17, 20, and 21.	
	Thence:	
	N. 89°56' W., on true line, bet. secs. 17 and 20.	
	Over rolling bench land, through scattered short undergrowth.	

Chains	
7.20	Wash, 10 lks. wide, 6 ft. deep, drains S.
15.90	Wash, 30 lks. wide, 4 ft. deep, drains SE.
20.50	Wash, 20 lks. wide, 5 ft. deep, drains SE.
40.01	On rolling bench land.
	Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground, for ¼ sec. cor., with brass cap marked
	¼ S17 / S20
	1917
	raise a mound of stone, 3 ft. base, 2 ft. high, N. of cor.
46.00	Leave rolling bench land, bears N. and S.; descend gradual W. slope.
56.00	Wash, 30 lks. wide, 4 ft. deep, in bottom of Smoky Hollow, 50 ft. deep, drains S.
62.00	Base of abrupt ascent over broken NE, slope of high butte to the W., bears NW. and SE.
80.02	The cor. of secs. 17, 18, 19, and 20, 225 ft. above base of butte.
	Land, broken and rolling, with a general northeasterly and southerly exposure and drainage.
	Soil, shallow gravel, clay, sand, and rock; 4th rate. Sandstone and blue shale formation.
	Undergrowth, short shadscale, yellow top, and Brigham tea.
	No timber.
	Fair grazing land.
	N. 89°57' W., on random line, bet. secs. 18 and 19.
40.00	Set temp. ¼ sec. cor.
77.95	Intersect the W. bdy. of the township, 9 lks. S. of the cor. secs. 13, 18, 19, and 24, which is an iron post, 2 ins. diam., set, marked and witnessed as described in the official records of the survey of T. 42 S., R. 3 E.
	Thence:
	S. 89°53' E., on true line, bet. secs. 18 and 19.
	Descend abruptly over broken E. slope of rough mountainous land, through scattered undergrowth.
18.00	Leave mountainous land and enter rolling bench land, 285 ft. below cor., bears NW. and SE.; thence descend gradually over E. slope.
29.85	Dry channel of Warm Creek, 100 lks. wide, drains S. 5° E.; for about 20.00 chs., thence SE.; ascend gradual W. slope.

Chains	
37.95	On gradual SW. slope, 85 ft. above channel of Warm Creek.
	Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground, for ¼ sec. cor., with brass cap marked
	¼ S18 / S19
	1917
	raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor.
65.00	Base of abrupt ascent over broken W. face of high sandstone bluff, 150 ft. above the ¼ sec. cor., bears N. and
70.00	Top of narrow sandstone neck on top of butte, 200 ft. above base of bluff, bears N. and S.; descend abruptly over broken NE. face of butte.
77.95	The cor. of secs. 17, 18, 19, and 20, 350 ft. below top of butte.
	Land, broken, with a general southeasterly and northeastern exposure and drainage.
	Soil, deep blue clay and rock; 4th rate. Shale and sandstone formation.
	Undergrowth, scattered short shadscale and greasewood.
	No timber.
	Poor grazing land.
	N. 0°03' W., bet. secs. 17 and 18.
	Descend gradually along general E. breaks of a high sharp sandstone ridge to the W., through scattered short undergrowth.
14.00	Gulch, 40 ft. deep, drains S. 60° E.
22.20	Gulch, 80 ft. deep, drains S. 60° E.
24.50	Spur, 80 ft. high, projects E.
29.50	Draw, 60 ft. deep, drains E., 5.00 chs. dist., thence SE.
36.00	Leave broken E. breaks of ridge and descend gradual N. slope.
40.00	On gradual N. slope.
	Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground, for ¼ sec. cor., with brass cap marked
	¼ / S18 | S17
	1934
	raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.

Chains	
41.20	Draw, 40 ft. deep, drains E.
51.00	Draw, 40 ft. deep, drains SE.
55.30	Draw, 40 ft. deep, at base of spur, drains SE.; ascend gradual broken S. slope of spur.
69.00	Spur, 180 ft. above draw, projects SE.; descend gradual N. slope.
79.50	Gulch, 60 ft. below spur, drains SE.
80.00	On N. side of gulch, 5 ft. above bottom.
	Set an iron post, 3 ft. long, 2 ins. diam., 27 ins. in the ground, for cor. of secs. 7, 8, 17, and 18, with brass cap marked

T42S	R4E
S7	S8
S18	S17

1934

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

Land, rolling and broken, with a general easterly exposure and drainage.

Soil, shallow blue clay, gravel, and rock; 3rd rate. Shale and sandstone formation.

Undergrowth, scattered short shadscale, greasewood, black brush, and Brigham tea.

No timber.

Fair grazing land.

S. 89°56' E., on random line, bet. secs. 8 and 17.

40.00	Set temp. ¼ sec. cor.
80.10	Intersect the N. and S. line, at the cor. of secs. 8, 9, 16, and 17.

Thence:

N. 89°56' W., on true line, bet. secs. 8 and 17.

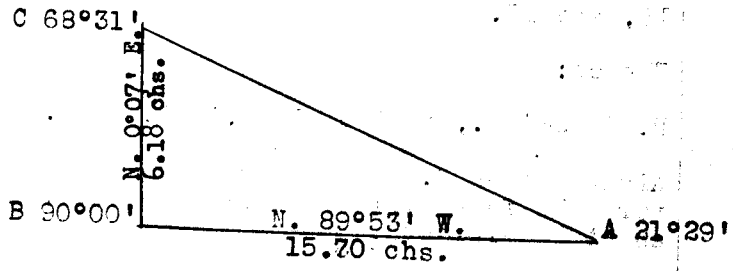
Along broken S. slope of blue clay hills and breaks which form the foot hills of Smoky Mountain, through scattered short undergrowth.

7.60	Draw, 30 ft. deep, drains S. 30° W.
13.80	Draw, 20 ft. deep, drains S. 30° W.
20.00	Draw, 50 ft. deep, drains SW.
22.50	Base of blue clay spur, bears NE. and SW.
39.25	Sharp blue clay spur, 85 ft. high, projects S. 30° W., and bears N. 30° E.; high shale butte on spur, bears S. 30° W., 5.00 chs. dist.; descend abrupt NW. slope.

Chains	
40.05	On broken NW. slope, 30 ft. below spur.
	Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in ground, for ¼ sec. cor., with brass cap marked ¼ S8/S17 1934 of stone, 2 ft. base, 1½ ft. high, N. of cor. raise a mound
53.50	Bottom of Smoky Hollow, 120 ft. below the ¼ sec. cor., drains S.; ascend gradually over broken E. slope.
75.50	Spur, 150 ft. above hollow, projects SE.; descend steep SW. slope.
80.10	The cor. of secs. 7, 8, 17, and 18, 75 ft. below spur.
	Land, broken foot hills of Smoky Mountain, with a general southerly exposure and drainage.
	Soil, deep blue clay and gravel; 4th rate. Shale and sandstone formation.
	Undergrowth, scattered shadscale, yellow top, and Brigham tea.
	No timber.
	Poor grazing land.

N. 89°53' W., on random line, bet. secs. 7 and 18.

17.66 Base of inaccessible E. breaks of sharp ridge to the W. over which I am unable to chain, I therefore determine the distance by triangulation as follows. Erect flag A at this point and flag B on line to the W. From B, survey base line BC, N. 0°07' E., 6.18 chs. dist. and erect flag C. From C, AB subtends an angle of 68°31'. From A, BC subtends an angle of 21°29'. Vertical angle from A to B is plus 26°. All angles checked by repetition and base line double chained.



Distance on line	17.66 chs.
Distance by triangulation	15.70 chs.
	33.36 chs.

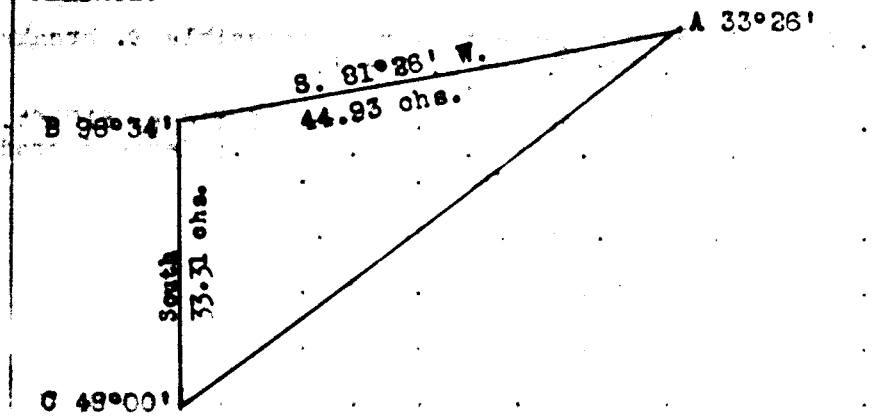
33.36 To point B of triangulation.

33.50 Set temp. witness cor. to the ¼ sec. cor. secs. 7 and 18.

The line to the W. of this point passes over inaccessible ledges, I therefore determine the distance by triangulation on traverse line as follows.

Chains

Designate the 33.50 chs. point as A, the witness cor. to the cor. of secs. 7, 12, 13, and 18, on the W. bdy. of the township, which is South, 6.69 chs. dist. from the true cor. point as B, and the ¼ sec. cor. of secs. 13 and 18 on the W. bdy. of the township as C. From A, B bears S. 81°26' W., and from A, BC subtends an angle of 33°26'. All angles checked by repetition and base line double chained.



Distance by triangulation from A. to B is S. 81°26' W., 44.93 chs. dist., which is a westing of 44.43 chs. and a southing of 6.69 chs.

The course and distance from the cor. of secs. 7, 8, 17, and 18, to the true point for the cor. of secs. 7, 12, 13, and 18, on the W. bdy. of the township, therefore is, N. 89°57' W., 77.93 chs.

The witness cor. to the cor. of secs. 7, 12, 13, and 18, is an iron post, 2 ins. diam., set, marked and witnessed as described in the official records of the survey of T. 42 S., R. 3 E.

Thence:

S. 89°57' E., on true line, bet. secs. 7 and 18, counting distances from the true point for the cor. of secs. 7, 12, 13, and 18.

Ascend gradually over inaccessible N. face of broken sandstone ledges, through scattered undergrowth.

5.00 Approximate distance; top of high sharp inaccessible sandstone ridge, 75 ft. above cor., bears S. 30° W. and N. 80° E.; descend abruptly over inaccessible S. breaks of ridge.

20.40 Approximate distance; bottom of deep shale gulch, with high vertical walls, 490 ft. below ridge, drains SW.; ascend abrupt W. slope over inaccessible shale breaks and ledges.

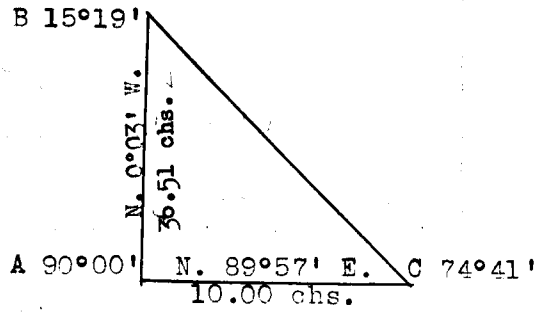
37.93 True point for the ¼ sec. cor. secs. 7 and 18 falls on inaccessible W. face of ledges, where it is impossible to reach the cor. point.

44.43 On top of sharp sandstone ridge, 560 ft. above gulch, bears S. 30° E. and N. 30° W.

Set an iron post, 3 ft. long, 1 in. diam., 6 ins. in the ground to solid rock and in a mound of stone to top, for witness cor. to the ¼ sec. cor., secs. 7 and 18, with brass cap marked

Chains	
	WC ¼ 87 / 818 / 1934
	Deposit a sandstone, 8 x 6 x 4 ins., at base of post, marked with a cross (X).
44.57	Begin abrupt descent over inaccessible E. breaks of rid[illegible] bears N. 30° W. and S. 30° E.
[illegible].27	Base of inaccessible E. breaks of ridge, 510 ft. below top, bears N. 30° W. and S. 30° E.; descend gradually along broken general E. slope.
72.40	Draw, 15 ft. deep, drains SE.
75.50	Recross draw, drains N. 80° E.
77.50	Recross draw, drains S. 80° E.
77.93	The cor. of secs. 7, 8, 17, and 18, 220 ft. below base of breaks.
	Land, broken by inaccessible sandstone ledges and shale breaks, with a general easterly and southwesterly exposure and drainage into Warm Creek and Smoky Hollow.
	Soil, shallow clay, shale, and rock; 4th rate. Sandstone and shale formation.
	Undergrowth, scattered shadscale, black brush, Brigham tea and weeds.
	No timber.
	Poor grazing land.
	N. 0°03' W., bet. secs. 7 and 8.
	Ascend abrupt S. slope of broken foot hills of Smoky Mountain, through scattered undergrowth.
5.00	Spur, 75 ft. above cor., projects SE.; descend gradual N. slope.
15.00	Gulch, 150 ft. below spur, drains S. 70° E.; ascend steep S. slope over ledges.
36.00	Top of high ledgy spur, 310 ft. above gulch, projects E.; descend ledgy NE. slope.
40.00	On steep NE. slope, 210 ft. below spur.
	Set an iron post, 3 ft. long, 1 in. diam., 20 ins. in the ground to solid rock and in a mound of stone, for ¼ sec. cor., with brass cap marked
	¼ / 87 | 88 / 1934
	Deposit a sandstone, 18 x 10 x 10 ins., at base of post, marked with a cross (X).

Chains	
47.50	Gulch, 190 ft. below the ¼ sec. cor., drains SE.; ascend abruptly over ledgy S. slope.
57.50	Base of vertical sandstone ledge, 150 ft. high, bears NE. and SW., over which I am unable to chain, I therefore triangulate as follows. Erect flag A at the ¼ sec. cor. secs. 7 and 8, and flag B on line to the N. From A, survey base line AC, N. 89°57' E., 10.00 chs. dist. and erect flag C. From C, AB subtends an angle of 74°41'. From B, AC subtends an angle of 15°19'. Vertical angle from A to B is plus 5°24'. All angles checked by repetition and base line double chained.



Distance on line	40.00 chs.
Distance by triangulation	36.51 chs.
	76.51 chs.

76.51	To point B of triangulation at top of sandstone spur, 230 ft. above the ¼ sec. cor., projects SE.; descend gradually over ledgy E. slope.
80.00	On ledgy E. slope, 25 ft. below spur, at head of gulch, drains N. 80° E.

Set an iron post, 3 ft. long, 2 ins. diam., 10 ins. in the ground to solid rock and in a mound of stone to top, for cor. of secs. 5, 6, 7, and 8, with brass cap marked

T42S	R4E
S6	S5
S7	S8

1934

Deposit a sandstone, 12 x 12 x 6 ins., at base of post, marked with a cross (X).

Land, broken and mountainous, with a general southeasterly exposure and drainage.

Soil, shallow loose shale, clay and rock; 4th rate. Shale and sandstone formation.

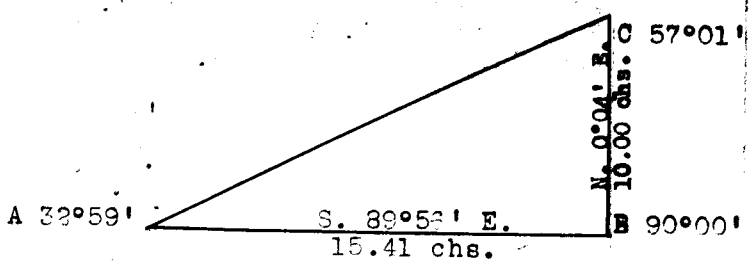
Undergrowth, scattered shadscale, black brush, Brigham tea, and weeds.

No timber.

Poor grazing land.

S. 89°56' E., on random line, bet. secs. 5 and 8.

Chains	
14.49	Top of abrupt descent over broken E. breaks of inaccessible sandstone ledges over which I am unable to chain, I therefore determine the distance by triangulation as follows. Erect flag A at the 14.49 chs. point, and flag B on line to the E. from B, survey base line BC, N. 0°04' E., 10.00 chs. dist. and erect flag C. From C, AB subtends an angle of 57°01'. From A, CB subtends an angle of 32°59'. Vertical angle from A to B is minus 33°30'. All angles checked by repetition and base line double chained.



Distance on line	14.49 chs.
Distance by triangulation	15.41 chs.
	29.90 chs.

29.90	To point B of triangulation.
40.00	Set temp. ¼ sec. cor.
79.90	Intersect the N. and S. line, 9 lks. S. of the cor. of secs. 4, 5, 8, and 9.
	Thence:
	West, on true line, bet. secs. 5 and 8.
	Along broken S. face of blue shale breaks, through scattered undergrowth. Ascend gradually.
18.00	Spur, 390 ft. above cor., porjects SW.; descend abruptly over broken W. slope.
37.30	Bottom of Smoky Hollow, 310 ft. below spur, drains S. 30° W.; ascend gradual W. slope.
39.95	On W. side of Smoky Hollow, 10 ft. above bottom.
	Set an iron post, 3 ft. long, 1 in. diam., 20 ins. in the ground to solid rock and in a mound of stone to top, for ¼ sec. cor., with brass cap marked

¼ S5 / S8

1934

	Deposit a sandstone, 3 x 8 x 6 ins., at base of post, marked with a cross (X).
50.00	Base of inaccessible E. breaks of ledges, bears N. 30° E. and S. 30° W.
65.41	Top of ledges, 680 ft. above the ¼ sec. cor.; thence ascend gradually along top of wide spur, projects E.
79.90	The cor, of secs. 5, 6, 7, and 8, 170 ft. above top of ledges.

Chains	
	Land, broken and mountainous, with a general easterly and southerly exposure and drainage.
	Soil, shallow shale, clay, and rock; 4th rate. Sandstone and shale formation.
	Undergrowth, scattered shadscale, black brush, Brigham tea, and weeds.
	No timber.
	Poor grazing land.
	N. 89°57' W., on random line, bet. secs. 6 and 7.
40.00	Set temp. ¼ sec. cor.
77.80	Intersect the W. bdy. of the township, 5 lks. N. of the cor. of secs. 1, 6, 7, and 12, which is an iron post, 2 ins. diam., set, marked and witnessed as described in the official records of the survey of T. 42 S., R. 3 E.
	Thence:
	S. 89°59' E., on true line, bet. secs. 6 and 7.
	Ascend abruptly over broken S. breaks of high sharp spur to the N., through scattered undergrowth.
31.10	Top of W. rim of mesa, 620 ft. above cor., bears SE., and N. 80° W., 1.50 chs. dist. to NW. point of mesa from which a high sharp ridge bears N. 80° W.; thence over broken top of mesa.
37.50	On broken top of mesa, near N. rim; mark a cross (X) on the surfacerock, over which:
	Set an iron post, 2 ft. long, 1 in. diam., in a large mound of stone, for ¼ sec. cor., with brass cap marked
	¼ S6 / S7 / 1934
	No other suitable accessories available.
	Continue over broken top of mesa.
69.70	Top of E. rim of mesa, bears NE. and SW.; descend abruptly over broken E. breaks of mesa.
77.80	The cor. of secs. 5, 6, 7, and 8, 160 ft. below mesa. Land, broken, with a general southerly and easterly exposure and drainage.
	Soil, shallow loose sand, clay, and rock; 4th rate.
	Undergrowth, scattered short sagebrush, shadscale, Brigham tea, black brush, and weeds.
	No timber.
	Fair grazing land on top of mesa.

Chains	
	N. 0°04' W., on random line, bet. secs. 5 and 6.
40.00	Set tep. ¼ sec. cor.
80.00	Intersect the N. bdy. of the township, 2 lks. W. of the secs. 5, 6, 31, and 32, heretofore described.
	Thence:
	S. 0°03' E., on true line, bet. secs. 5 and 6.
	Ascend abrupt N. slope of saddle in divide ridge bet. Warm Creek and Smoky Hollow, through scattered undergrowth
7.80	Top of N. rim of small mesa, 110 ft. above cor., bears E. and W.; thence over broken top of mesa.
26.85	Leave top of mesa at the S. end of same, bears NW. and S. 80° E.; thence descend gradually along W. breaks of a high sharp sandstone divide ridge to the E..
35.00	Head of gulch, 75 ft. below mesa, drains S. 80° W.; ascend steep N. slope.
37.00	Spur, 50 ft. above head of gulch, projects S. 80° W., and bears N. 80° E. to sharp sandstone ridge; descend steep S. slope.
40.00	On steep S. slope, 50 ft. below spur.
	Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground, for ¼ sec. cor., with brass cap marked
	¼ S6 | S5 1934
	of stone, 2 ft. base, 1½ ft. high, raise a mound W. of cor.
40.30	Head of gulch, 5 ft. below the ¼ sec. cor., drains S. 80° W.; ascend ledgy NW. slope.
43.50	Top of divide ridge bet. Smoky Hollow and Warm Creek, 75 ft. above head of gulch, bears N. 20° E. and S. 20° W.; ascend gradually along broken E. slope.
57.50	Top of ascent on E. slope of ridge, 180 ft. above point of crossing top of ridge, bears E. and W.; descend gradually along broken E. slope .
80.00	The cor. of secs. 5, 6, 7, and 8, 160 ft. below top of ascent.
	Land, broken and mountainous, with a general easterly and westerly exposure and drainage.
	Soil, shallow clay, shale, and rock; 4th rate. Sandstone and shale formation.
	Undergrowth, scattered short black brush, shadscale, Brigham tea, and weeds.
	No timber.
	Fair grazing land but inaccessible to stock.

The south portion of this township, consists of rough and broken bench land, which is cut by deep gulches which are rimmed with high vertical sandstone walls, and has a general southwesterly and northeasterly exposure and drainage into Warm Creek.
The north portion of the township, consists of the broken south breaks of Smoky Mountain and is cut by deep gulches rimmed with inaccessible blue shale and sandstone ledges and breaks, and has a general southwesterly exposure and drainage into Warm Creek and Smoky Hollow.
The formation throughout the township consists of white and red sandstone and blue shale, the shale being more prominent in the north portion of the township.
The soil consists of a shallow loose blue clay, sand, gravel, and rock, and may be classified as 4th rate. The soil throughout the township is very alkaline and non-productive.
The only timber found in the township, is a medium dense growth of scrub juniper on the top of a high rocky mesa located in secs. 12 and 13,
The undergrowth consists of a scattered short growth of shadscale, black brush, Brigham tea, and weeds. A fair growth of grass is found on the tops of the high mesas and the steep talus slopes of the spurs and ridges.
The only water in the township that is free from alkali, is a small seep located in the NE¼ SW¼, section 28. This seep is at the head of boxed gulch near its mouth. No other water that is free from alkali and that is suitable for drinking purposes, is located within a distance of eight miles from this seep. The only other water found in the township, are small intermittent seeps of alkali water found along the channel of Warm Creek, in sections 28 and 33.
Throughout the north portion of the township, numerous outcroppings of coal were found. These outcroppings are from three to six feet thick, and are found at four different levels, each outcropping being at an elevation of about 200 feet above the other. The coal is bitumenous and of a fair grade. The veins are horizontal and are best along the rims of the deep canyons and gulches. No workings were found in any of the veins in the township. In sections 1 and 2, the coal is on fire, and in two or three places in these sections, smoke from these fires could be seen coming from holes in the earth's surface. It was impossible to determine which level of coal was burning. Numerous other columns of smoke could be seen coming from this underground fire of coal, throughout the country to the northeast of this township, which indicates that a vast area of this coal is on fire. Throughout the area of this burning coal, the surface of the ground is checked and contains deep crevices and caved areas. Inquires were made by me from some of the first settlers of the towns of Kanab, Junction, and Escalante, Utah, as to when this fire first started, but all informed me that the coal was burning when they made their first trip to this country.
No improvements or settlers were found on the township, and no portion of it is suitable for farming.
Portions of the township affords fair grazing for stock during the entire year, and at the time of the survey, it was being used for this purpose.
The greater portion of the north part of the township, is inaccessible for stock, on account of the steep shale and sandstone breaks and rims, and has no commercial value except for the coal.
Marble Canyon, Arizona, is the nearest post office to the township, which lies in a southwesterly direction, about 50 miles distant. This town can only be reached from the township by saddle horse, over a rough trail through deep sand and broken sandstone breaks.

Escalante, Utah, bears in a northeasterly direction from the township, about 50 miles distant, and can only be reached by saddle horse. Kanab, Utah, lies in a westerly direction, about 70 miles distant. The township can be reached from this town by team and wagon, over rough nearly impassible trails and unimproved roads.
The coal was the only indication of mineral that was found.
The magnetic declination was taken at the cor. of secs. 20, 21, 28, and 29, and was found to be 16°30' E., which is also the mean declination throughout the township.

BOOK A-503

4—680
(August, 1926)

FIELD ASSISTANTS.

NAMES.	CAPACITY.
Frank Romeny	Chainman
Lacell Bird	Chainman
Wayne Clark	Chainman
Richard Huntington	Chainman
Molen Roper	Chainman
Bert Swain	Chainman
Reed Overson	Chainman
Frank H. Clark	Flagman
James H. Handcock	Flagman
Ross A. Slye	Axeman
Arthur W. Warenski	Axeman
Wilford Williams	Cornerman
James Stewart	Cornerman and Flagman

6—2764

CERTIFICATE OF UNITED STATES SURVEYOR S

We, Elliot Bird, and Andrew Nelson, U. S. Surveyor, hereby certify upon honor that, in pursuance of special instructions received from the District Cadastral Engineer for Utah bearing date of the 1st day of February, 1916, We have well, faithfully, and truly in our own proper persons and in strict conformity with said instructions, the Manual of Surveying Instructions and the laws of the United States, surveyed all those parts or portions of the north and east boundaries, and subdivision of, T. 42 S., R. 4 E.

of the Salt Lake Meridian, in the State of Utah, which are represented in [illegible] field notes as having been executed by us, and under our directions; and that all the corners of [illegible] and perpetuated in strict accordance with the Manual of Surveying Instructions [illegible] instructions of the District Cadastral Engineer for Utah [illegible] described in the field notes, and that the foregoing are the original field notes of [illegible]

Elliot Bird
Andrew Nelson
U. S. Surveyors

[illegible]
[illegible], Utah.
[illegible], 1934.

APPROVAL

OFFICE OF U. S. SUPERVISOR OF SURVEYS,

Denver, Colorado. DEC 13 1934, 19

[illegible] of the survey of the north and east boundaries, and subdivision of T. 42 S., R. 4 E., Salt Lake Meridian, Utah

[illegible] by Elliot Bird and Andrew Nelson [illegible] their [illegible] February 1, 1916, having been [illegible] and explanations made, the said field notes, and the surveys [illegible]

[illegible]
U. S. Supervisor of Surveys.

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

~~U. S. Supervisor of Surveys~~

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4—679
(April 1938)

BOOK A-503 "A"

FIELD NOTES

OF THE SURVEY OF THE

NORTH, SOUTH, AND EAST BOUNDARIES, AND THE SUBDIVISIONAL AND

MEANDER LINES OF THE RIGHT BANK OF THE COLORADO RIVER,

T. 43 S., R. 5 E.

Of the Salt Lake *Meridian,*

the State of Utah

EXECUTED BY

Elliot Bird, U.S. Surveyor

der special instructions dated February 11, *19*16, *which provided*

the surveys included under Group No. 52, *bearing the approval of the*

mmissioner of the General Land Office under date of April 5, 1916.

Supplemental assignment instructions dated December 1, *19*33.

Survey commenced February 1, *19*34

Survey completed April 7, *19*34.

U. S. GOVERNMENT PRINTING OFFICE: 1938 6—151

BOOK A-503

INDEX DIAGRAM.

Township 43 SOUTH, *Range* 5 EAST

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18 89 87	17 73 86	16 58 72	15 44 57	14 32 43	13 12 30
19 84 83	20 70 82	21 55 68	22 42 54	23 30 41	24 11 28
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31 79 2	32 65 3	33 51 4	34 38 5	35 25 96 6	36 9 95 7

6—151

The survey of township 43 south, range 5 east, was commenced February 1, 1934, and executed with Buff and Buff light mountain transit No. 18003, used by Elliot Bird, U. S. Surveyor. The instrument is equipped with a Smith solar attachment and full vertical circle. The horizontal limb of the transit is provided with two double verniers placed opposite to each other and reading to single minutes of arc, which is also the least count of the verniers of the latitude and declination arcs, and the vertical circle. The instrument was approved for use on this survey by the district cadastral engineer for Utah, conditional upon satisfactory field tests as stated in supplemental assignment instructions, dated December 1, 1933. The instrument was in good condition at the time of this survey and all adjustments were in good order. The country over which the lines of the survey are to be extended is all open land and the solar attachment is not used. All azimuths in this record are referred to true meridians determined by observations made upon Polaris during the progress of the survey. The lines were carried forward by double fore and back sights and the bearings determined by deflection angles.

Measurements were made with a Lallie steel ribbon tape, 5 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 Lufkin standard steel tape, 1 chain long, and found correct. Measurements were made on the slope, and the vertical angle of each interval was determined by two clinometers in good adjustment; the horizontal equivalents only are entered in the field note record.

February 1, 1934, at the cor. of Tps. 43 and 44 S., Rs. 4 and 5 E., in approximate latitude 37°01'N. and longitude 111°25'W., at 8h 39.7m a.m. by my watch, which carries correct 105th meridian standard time, being compared with radio signals on this date, I make an hour angle observation on Polaris, east of the meridian, two each with the telescope in direct and reversed positions, reading the horizontal deflection angles from Polaris in the direction west to a well defined reference point on a ledge approximately 2 miles North.

Watch fast of l.m.t. ----------	25.7m
Local mean time of observation ---------	8h 14m a.m.
Mean horizontal angle, Polaris to reference point ----------	59.5'W.
Azimuth of Polaris ----------	59.5'E.
True bearing of reference point --------	North

To verify the latitude of this station, I make a meridian altitude observation of the sun for latitude, observing the altitude of the sun's lower limb with the telescope in direct position, reversing the transit and observing the sun's upper limb:

Apparent time of observation, noon -----	12h 00m 00s
Mean observed altitude ----------	35° 53'
Reduced latitude ----------	37° 01'N.

March 30, 1934, at the cor. of Tps. 42 and 43 S., Rs. 5 and 6 E., in approximate latitude 37°06'N. and longitude 111°18'W., at 7h 53.8m a.m. by my watch, which carries correct 105th meridian standard time, being compared with radio signals on this date, I make an hour angle observation on Polaris, east of the meridian, two each with the telescope in direct and reversed positions, reading the horizontal deflection angle from a flag at the cor. of

U. S. GOVERNMENT PRINTING OFFICE: 1935 6—8155

Tps. 43 and 44 S., Rs. 5 and 6 E., in the direction S. to Polaris.

Watch fast of l.m.t.	25.2 m
Local mean time of observation	7h 28.6m
Mean horizontal angle from flag to Polaris	178°41.6'
Azimuth of Polaris	1°18.4' E.
True bearing of flag	South

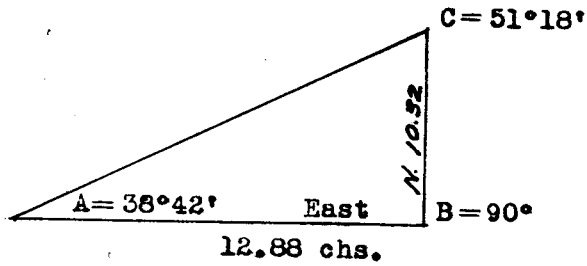
The transit was kept in good adjustment throughout the progress of this survey and numerous hour angle observations on Polaris were taken to determine true meridians from which the lines of the survey were checked.

SOUTH BOUNDARY OF T.43 S., R.5 E.

From the cor. of Tps.43 and 44 S., Rs. 4 and 5 E., which is an iron post, 3 ft. long, 3 ins. diam., set, marked, and witnessed as described in the official record of the survey of T.43 S., R.4 E., Group 51, Utah.

East, bet. secs. 6 and 31.

The line to the E. of this cor. passes over the inaccessible breaks of Warm Creek, over which I am unable to chain. To determine the distance across the breaks of Warm Creek, I triangulate as follows. Erect flag A at the township cor. and flag B on line E. From B, survey base line BC, North 10.32 chs. dist. and erect flag C. From C, A-B subtends an angle of 51°18'. From A, B-C subtends an angle of 38°42'. Vertical angle from A to B is 0. All angles checked by repetition and base line double chained.



Distance by triangulation 12.88 chs.

6.10 Approximate distance; bottom of Warm Creek drains S.20°W. which is a dry water channel, 2.00 chs. wide, with perpendicular walls 150 ft. high; ascend abruptly over inaccessible E. breaks of Warm Creek.

12.88 To point B of triangulation at top of E. breaks of Warm Creek, 200 ft. above bottom, bears N.30°W. and S.30°E.; thence ascend gradually over broken bench land through scattered short undergrowth.

38.92 Allowing for convergency; on gradual W. slope.

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

$$\frac{1}{4}\ \frac{S\ 31}{S\ 6}$$
1934

U. S. GOVERNMENT PRINTING OFFICE: 1931 6—8155

Chains	
	Deposit a sandstone, 8x4x2 ins., at base of post, marked X.
	No other siutable accessories available.
47.90	Sandstone ledge, 50 ft. high, faces W. and bears S.20°W., and N.20°E. about 5.00 chs. to end. Continue over broken bench land.
78.92	On gradual W. slope of broken bench land, 85 ft. above the ¼ sec. cor.
	Set an iron post, 3 ft. long, 2 ins. diam., 20 ins. in the ground to solid rock and in a mound of stone to top, for cor. of secs. 5, 6, 31, and 32, with brass cap marked

T43S R5E
S31 | S32
S6 | S5
T44S

1934

Deposit a sandstone, 10x10x8 ins., at base of post, marked X.

Land, broken, with a general westerly exposure and drainage.

Soil, shallow loose sand and surface rock; 4th rate.

Undergrowth, scattered short shadscale, grass, and weeds.

No timber.

Fair grazing land.

East, bet. secs. 5 and 32.

Ascend gradual W. slope of rolling bench land, through scattered short undergrowth.

22.00	Top of a low sandy ridge, 20 ft. above sec. cor., bears NE. and SW.; descend gradual E. slope.
40.00	On gradual E. slope, 20 ft. below ridge,
	Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground, for ¼ sec. cor., with brass cap marked

¼ S32 / S5

1934

	Deposit a sandstone, 8x6x3 ins., at base of post, marked X.
	No other suitable accessories available.
43.00	Bottom of sandy swale, nearly level with ¼ sec. cor., drains SW.; acsend gradual W. slope.
80.00	On gradual W. slope, 20 ft. above bottom of swale.

Chains	
	Set an iron post, 3 ft. long, 2 ins. diam., 27 ins. in the ground, for cor. of secs. 4, 5, 32, and 33, with brass cap marked
	T43S R5E S32 | S33 S5 | S4 T44S 1934
	Deposit a sandstone, 8x4x3 ins., at base of post, marked X.
	No other suitable accessories available.
	Land, rolling bench, with general southerly exposure and drainage.
	Soil, shallow loose sand and sandstone surface rock; 4th rate. Sandstone formation.
	Undergrowth, shadscale, blackbrush, yellow top, mountain rush, grass, and weeds.
	No timber.
	Fair grazing land.
	East, bet. secs. 4 and 33.
	Ascend gradual W. slope of rolling bench land, through scattered short undergrowth.
27.50	Top of slope, bears N. and S.; thence over nearly level top of bench.
40.00	On nearly level top of bench, 20 ft. above sec. cor.
	Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground, for ¼ sec. cor., with brass cap marked
	¼ S33 / S4 1934
	Deposit a sandstone, 8x8x6 ins., at base of post, marked X.
	No other suitable accessories available.
80.00	On nearly level bench land.
	Set an iron post, 3 ft. long, 2 ins. diam., 27 ins. in the ground, for cor. of secs. 3, 4, 33, and 34, with brass cap marked
	T43S R5E S33 | S34 S4 | S3 T44S 1934

Chains	
	Deposit a sandstone, 8x6x4 ins., at base of post, marked X. No other accessories available. The E. edge of a prominent butte in Arizona, bears S.35°27'E. For intersecting bearing see that given at the cor. of Tps. 43 and 44 S., Rs. 5 and 6 E.
	Land, rolling bench, with general southwesterly exposure and drainage.
	Soil, shallow loose sand and sandstone surface rock; 4th rate. Sandstone formation.
	Undergrowth, shadscale, blackbrush, yellow top, mountain rush, grass, and weeds.
	No timber.
	Fair grazing land.
	East, bet. secs. 3 and 34.
	Over gently rolling bench land, through scattered short undergrowth.
24.10	Head of draw, 20 ft. deep, drains S.20°W. about 5.00 chs. dist., thence S.30°E.
40.00	On gradual SE. slope, nearly level with sec. cor.
	Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground, for ¼ sec. cor., with brass cap marked S 34 ¼ S 3 1934
	Deposit a sandstone, 8x8x6 ins., at base of post, marked X.
46.00	Sandstone rim, 60 ft. high, facing SE., bears N.60°E. and S.60°W.; descend gradually over sandstone surface rock, and small patches of loose sand.
50.10	Top of a small sandstone butte, 60 ft. high.
66.50	Top of a small sandstone butte, 65 ft. high.
80.00	On broken SE. slope of sandstone surface rock, 140 ft. below ¼ sec. cor.
	Set an iron post, 3 ft. long, 2 ins. diam., 6 ins. in hole drilled in surface rock and in a mound of stone to top, for cor. of secs. 2, 3, 34, and 35, with brass cap marked T43S | R5E S34 | S35 S 3 | S 2 T44S 1934
	Land, rolling bench and sandstone surface rock, with general southeasterly exposure and drainage.

Chains	
	Soil, shallow, loose sand and sandstone surface rock; 2nd and 4th rates. Sandstone formation.
	Undergrowth, blackbrush, shadscale, yellow top, oose, grass, and weeds.
	No timber.
	Grazing, fair on W. portion; poor on E. portion.
	East, bet. secs. 2 and 35.
	Descend gradually over broken SE. slope of sandstone surface rock and scattered patches of shallow loose sand, through scattered patches of short undergrowth.
11.30	Sandstone draw, 120 ft. below sec. cor., drains S.20°E.; ascend gradually over W. slope of sandstone surface rock.
22.20	Sandstone draw, 70 ft. deep, drains S.
40.00	On broken sandstone surface rock.
	Set an iron post, 3 ft. long, 1 in. diam., 10 ins. in hole drilled in sandstone surface rock and in a mound of stone to top, for ¼ sec. cor., with brass cap marked

S 35
¼
S 2
1934

46.48	On top of nearly vertical ledge, about 500 ft. high, facing SE., bears NE. and SW.
	Set an iron post, 3 ft. long, 1 in. diam., 12 ins. in hole drilled in sandstone surface rock and in a mound of stone to top, for witness cor. to meander cor. of secs. 2 and 35, with brass cap marked

T43S
R5E
S35
MC
WC
S 2
T44S
1934

46.98	The estimated true point for the meander cor. of secs. 2 and 35, at mean high water mark on the right bank of the Colorado River, falls on vertical sandstone wall where it is impossible to set cor.
	The line to the E. of the point for meander cor. crosses the Colorado River, and the true point for cor. of secs. 1, 2, 35, and 36, will fall in the Navajo Indian Reservation south of the river. It being impossible to continue my line E. because of the high vertical walls of the Colorado River, I return to the ¼ sec. cor. of secs. 2 and 35, and run on offset line as follows:
	North, 13.64 chs. dist., thence: East, 40.00 chs. dist., to:
80.00	Point on offset line which is North, 13.64 chs. dist.

U. S. GOVERNMENT PRINTING OFFICE: 1921 6—8155

Chains

from true point for the cor. of secs. 1, 2, 35, and 36, which falls in the Navajo Indian Reservation, on the S. side of the Colorado River.

Land, broken surface rock and breaks of the Colorado River and Gunsight Canyon, with general southerly exposure and drainage.

Soil, scattered patches of loose sand on surface rock; 4th rate. Sandstone formation.

Undergrowth, scattered patches of blackbrush, yellow top, grass, and weeds.

No timber.

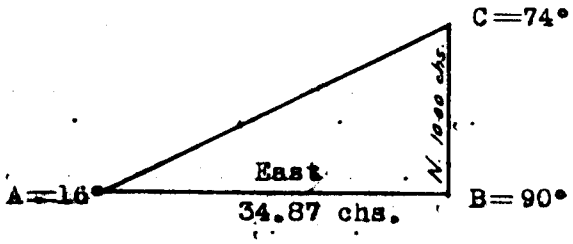
Poor grazing land.

East, bet. secs. 1 and 36.

The point for the cor. of secs. 1, 2, 35, and 36, falls on the S. side of the Colorado River, in the Navajo Indian Reservation, I therefore commence at a point, North 13.64 chs. dist., from the true point for the cor. of said secs. and run East, on offset line as follows.

This point on offset line is at the top of the nearly vertical walls on W. side of Gunsight Canyon, over which I am unable to chain. To determine the distance E. on offset line from this point, I triangulate as follows.

Erect flag A at this point and flag B on line to the E. From B, survey base line, North, 10.00 chs. dist., and erect flag C. From C, A-B subtends an angle of 74°. From A, B-C subtends an angle of 16°. Vertical angle from A to B is 0°. All angles checked by repetition and base line double chained.



Distance by triangulation on offset line, east 34.87 chs.; south, 13.64 chs. to true line, then west, 9.17 chs. to

25.70 Distance on line bet. secs. 1 and 36, E. of the true point for cor. of secs. 1, 2, 35, and 36, at the mean high water mark of the right bank of the Colorado River, bears S.30°E., and N.30°W.10.00 ch. dist. to high vertical ledge, facing S.

The true point for the meander cor. of secs. 1 and 36, falls on loose sandy bank of river which is subject to overflow, and where it is impracticable to set a permanent cor.

Thence from true point for meander cor.,

East, on true line bet. secs. 1 and 36, counting distances from the true point for cor. of secs. 1, 2, 35, and 36.

Chains	
	Over the W. end of Gunsight Bar, through dense undergrowth of willows, rabbit brush, weeds, and grass.
27.20	Near the W. end of Gunsight Bar, 500 ft. below the witness cor. to the meander cor. of secs. 2 and 35.
	Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground, for witness cor. to meander cor. of secs. 1 and 36, with brass cap marked

T43S
R5E
S36
WC
MC
S 1
T44S
1934

Deposit a sandstone, 8x6x6 ins., at base of post, marked X.

No other accessories available.

32.50	Leave Gunsight Bar, bears NW. and SE.; ascend over broken SW. slope of sandstone surface rock, through scattered patches of short undergrowth of blackbrush, yellow top, weeds and grass.
40.00	On broken SW. slope of sandstone surface rock, 90 ft. above Gunsight Bar.
	Set an iron post, 3 ft. long, 1 in. diam., 12 ins. in a hole drilled in sandstone surface rock and in a mound of stone to top, for ¼ sec. cor., with brass cap marked

S 36
¼
S 1
1934

55.80	Small sandstone draw that heads North about 5.00 chs. dist., 35 ft. deep, drains S.
63.00	Top of N. edge of circular knoll, about 2.50 chs. diam., on top, and covered with gray sand and gravel, 330 ft. above ¼ sec. cor.; descend abrupt E. slope, over sandstone surface rock.
71.10	Sand stone draw, 130 ft. below top of knoll, drains S.10°W.; ascend abrupt NW. slope.
80.00	On top of elongated knoll, bears N.80°E. and S.80°W., 160 ft. above draw, covered with gray sand and gravel.
	Set an iron post, 3 ft. long, 3 ins. diam., 27 ins. in the ground for the cor. of Tps. 43 and 44 S., Rs. 5 and 6 E., with brass cap marked

T43S

R5E	R6E
S36	S31
S 1	S 6

T44S

1934

Chains	
	raise a mound of stone, 2½ ft. base, 2 ft. high, S. of cor.
	The E. edge of a prominent butte in Arizona, bears South. For intersecting bearing see that given at the cor. of secs. 3, 4, 33, and 34, on the S. bdy. of the township.
	Land, river bar and sandstone surface rock, with general southwesterly exposure and drainage.
	Soil, deep fine sand, 2nd rate, on river bar; sandstone surface rock with patches of loose coarse sand, 4th rate, on the remainder of mile.
	Undergrowth, willows, blackbrush, rabbit brush, yellow top, weeds, and grass.
	No timber.
	Grazing, fair on river bar; and poor on remainder of mile.

EAST BOUNDARY OF T.43 S., R.5 E.

From the cor. of Tps.43 and 44 S., Rs. 5 and 6 E.

North, bet. secs. 31 and 36.

Descend abrupt N. slope of knoll, over sandstone surface rock outcroppings, through scattered short undergrowth.

7.50 Base of knoll, 135 ft. below township cor., bears E. and W.; ascend gradually over sandstone surface rock and scattered patches of sand on . breaks of Colorado River.

40.00 On broken general E. slope of sandstone surface rock, 80 ft. above base of knoll, mark a cross, over which:

Set an iron post, 3 ft. long, 1 in. diam., in a large mound of stone to top, for ¼ sec. cor., with brass cap marked

¼
S36 | S31
1934

46.72 Rim of . breaks of Colorado River, bears NE. and SW.; thence ascend gradually over gently rolling bench land, through scattered undergrowth of blackbrush, yellow top, mountain rush, oose, weeds, and grass. From this point the E. end of a small sandstone rock island in river, bears N.76°E. For intersecting bearing see that given at the witness cor. to the meander cor. of secs. 30 and 31, T.43 S., R.6 E.

74.00 Top of a sandy rise, 85 ft. above ¼ sec. cor., bears NE. and SW.; descend gradual sandy N. slope.

80.00 On gentle N. slope of rolling sandy bench land, 10 ft. below sandy rise.

Set an iron post, 3 ft. long, 2 ins. diam., 27 ins. in

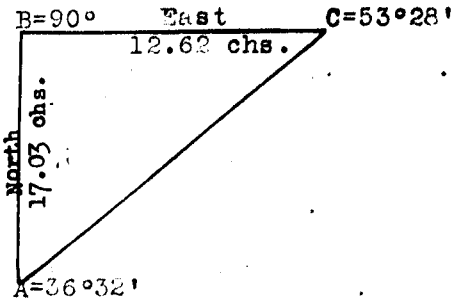
EAST BOUNDARY OF T. 33 S., R. 5 E.

Chains	
	the ground, for cor. of secs. 25, 30, 31, and 36, with brass cap marked
	T33S R5E | R6E S25 | S30 S36 | S31 1934
	Deposit a sandstone, 8x6x3 ins., marked X, at base of post. No other suitable accessories available.
	Land, broken sandstone surface rock and breaks of Colorado River on south 46.72 chs., and rolling sandy bench with general southeasterly exposure and drainage.
	Soil, sandstone surface rock and deep loose sand; 4th and 2nd rates.
	No timber.
	Undergrowth, blackbrush, yellow top, mountain rush, cose, weeds, and grass.
	Fair grazing land.
	North, bet. secs. 25 and 30.
	Descend gradual N. slope of rolling sandy bench land, through scattered short undergrowth.
[illegible].40	Small sandy draw, 10 ft. deep, drains N.60°E.
[illegible].00	Low sandy spur, 10 ft. high, projects N.70°E.
40.00	On gently rolling N. slope, 45 ft. below sec. cor.
	Set an iron post, 3 ft. long, 1 in. diam., 10 ins. in the ground to solid rock, with a sandstone, 8x6x6 ins., marked X, deposited at base, and in a mound of stone to top, for ¼ sec. cor., with brass cap marked
	¼ S25 | S30 1934
45.90	Sandy draw, 20 ft. deep, drains N.70°E.
68.50	Leave sandy bench and enter broken sandstone surface rock, bears N.70°E. and SW.; descend gradually over general N. slope.
75.10	Sandstone draw, 160 ft. below ¼ sec. cor., drains N.70°E. as [illegible] gradually over general E. slope of sandstone surface rock.
[illegible].00	On general E. slope of sandstone surface rock, 10 ft. above draw, mark a cross, over which:
	Set an iron post, 3 ft. long, 2 in. diam., in a large mound of stone to top, for cor. of secs. 19, 24, 25, and 30, with brass cap marked

Chains	
	T43S R5E | R6E S24 | S19 S25 | S30 1934
	Land, S. 68.50 chs., gently rolling bench; remainder of mile, broken sandstone surface rock.
	Soil, shallow loose sand, 2nd rate; sandstone surface rock with scattered patches of loose sand; 4th rate. Sandstone formation.
	Undergrowth, blackbrush, yellow top, mountain rush, oose, weeds, and grass.
	No timber.
	Grazing, fair on S. portion; poor on N. portion.
	North, bet. secs. 19 and 24.
	Ascend gradually over general E. slope of sandstone surface rock, and scattered patches of shallow loose sand, through scattered short undergrowth.
14.40	Sandstone spur, 50 ft. above sec. cor., projects E. about 5.90 chs., to E. point, continue along general broken E. slope.
30.50	Stream of good clear water, 4 lks. wide, 2 ins. deep, that heads at a spring about 2 chs. W., in bottom of a sandstone boxed gulch, 320 ft. deep, 50 lks. wide in bottom with nearly vertical walls, drains E.
40.00	On gradual SE. slope of sandstone surface rock, nearly level with top of spur at 14.40 chs. point.
	Set an iron post, 3 ft. long, 1 in. diam., 12 ins. in a hole drilled in sandstone surface rock, and in a mound of stone to top, for ¼ sec. cor., with brass cap marked
	¼ S24 | S19 1934
	Ascend gradual SE. slope of broken sandstone surface rock.
49.80	Top of red sandy spur, 80 ft. above ¼ sec. cor., projects E. about 7.50 chs. dist., to end; descend gradual N. slope.
56.10	Head of sandstone gulch, 50 ft. below spur, drains E.; descend gradually over general E. slope.
62.97	S. rim of breaks of Navajo Canyon, 60 ft. below spur, bears N.60°E. and S.60°W. The line to the N. of this point passes over the inaccessible breaks of Navajo Canyon, over which I am unable to chain. To determine the distance across the breaks of Navajo Canyon, I triangulate as follows. Erect flag A at this point and flag B on line to the N. From

Chains

B, survey base line BC, East, 12.62 chs. dist. and erect flag C. From A, B-C subtends an angle of 36°32'. From C, A-B subtends an angle of 53°28'. Vertical angle from A to B is 0°. All angles checked by repetition and base line double chained.



Distance on line ---------- 62.97 chs.
Distance by triangulation ---------- 17.03 chs.
80.00 chs.

64.00 Approximate distance: Stream of good water, 5 lks. wide, 3 ins. deep, in narrow bottom of Navajo Canyon, 320 ft. below rim, with nearly vertical walls, 320 ft. high on S. side, and 180 ft. high on N. side, drains N.60°E.; ascend over sandstone ledges and broken surface rock on general SE. slope.

80.00 Point of triangulation on broken SE. slope, 320 ft. above bottom of Navajo Canyon.

Set an iron post, 3 ft. long, 2 ins. diam., 15 ins. in the ground to solid rock, with a sandstone, 8x6x4 ins., marked N, deposited at base, and in a mound of stone to top, for cor. of secs. 13, 18, 19, and 24, with brass cap marked

T43S

R5E	R6E
S13	S18
S24	S19

1934

Land, broken sandstone surface rock and scattered patches of loose sand, with general easterly exposure and drainage.

Soil, shallow patches of loose sand on sandstone surface rock; 4th rate.

Undergrowth, scattered patches of blackbrush, mountain rush, yellow top, oose, weeds, and grass.

No timber.

Poor grazing land.

North, bet. secs. 13 and 18.

Ascend gradual broken SE. slope of sandstone surface rock and scattered patches of sand, through scattered short undergrowth.

U. S. GOVERNMENT PRINTING OFFICE: 1934 9—8155

Chains	
3.10	North rim of breaks of Navajo Canyon, 20 ft. above sec. cor., bears NE. and SW.; descend gradual N. slope of rolling and broken top of bench.
40.00	On broken N. slope, 30 ft. below rim.
	Set an iron post, 3 ft. long, 1 in. diam., 16 ins. in the ground to solid rock, with a sandstone, 8x6x4 ins., marked X, deposited at base, and in a mound of stone to top, for ¼ sec. cor., with brass cap marked
	¼ S13 | S18 1934
41.30	Draw, 10 ft. below ¼ sec. cor., drains N.60°E.; ascend gradual SE. slope.
53.90	Spur, 60 ft. above draw, projects E.; descend gradual N. slope.
56.80	Draw, 50 ft. below spur, drains S.80°E.; ascend gradual broken S. slope.
69.30	Spur, 65 ft. above draw, projects SE.; descend abrupt NE. slope.
71.10	Small spring of good water on E. side of Left Fork of Cane Wash, near bottom, bears E., 1.50 chs. dist.
72.90	Left Fork of Cane Wash, 70 ft. below spur, drains SE.; small intermittent seeps and streams found along bottom, southeasterly to Colorado River; ascend gradual sandy SW. slope.
73.70	Small spring of good water locally known as Cane Spring, on E. side of Left Fork of Cane Wash, bears W., 15 lks. dist.
80.00	On gradual sandy SW. slope, 60 ft. above bottom of Left Fork of Cane Wash.
	Set an iron post, 3 ft. long, 2 ins. diam., 27 ins. in the ground, for cor. of secs. 7, 12, 13, and 18, with brass cap marked
	T43S R5E | R6E S12 | S7 S13 | S18 1934
	Raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.
	Land, rolling and broken bench, with general easterly exposure and drainage.
	Soil, shallow loose sand and sandstone surface rock; 3rd rate.
	Undergrowth, blackbrush, yellow top, mountain rush, oose, weeds, and grass.
	No timber.
	Fair grazing land.

Chains	
	North, bet. secs. 7 and 12.
	Over gently rolling sandy bench land, through scattered short undergrowth of blackbrush, yellow top, mountain rush, oose, weeds, and grass.
22.50	Sandy draw, 30 ft. deep, drains S.80°E.
40.00	Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground, for ¼ sec. cor., with brass cap marked

¼
S12 | S7
1934

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

Cor. stands on sandy rolling bench land, thence descend gradual N. slope.

42.00	Bottom of a sandy draw, 15 ft. below ¼ sec. cor., drains S.75°E., from NW.; a small seep in bottom of draw, bears NW. about 6.50 chs. dist.; ascend gradual S. slope.
44.50	Base of bare sandstone surface rock, bears S.70°E., and N.70°W. about 2.50 chs. dist., thence N.35°W.; ascend abrupt S. slope over sandstone ledges and surface rock.
46.40	Top of a red sandstone ledge, facing SW., 130 ft. high, bears S.70°E., and N.70°W. about 2.00 chs. dist., thence N.30°W.; ascend gradually over bare broken sandstone surface rock along general W. slope.
50.00	On sandstone surface rock, in a depression, 30 ft. deep, on sandstone ridge, 220 ft. above draw, bears NW. and SE.

Set an iron post, 2 ft. long, 1 in. diam., 14 ins. in a hole drilled in solid sandstone surface rock, for cor. of secs. 1, 6, 7, and 12, with brass cap marked

T43S

R5E	R6E
S1	S6
S12	S7

1934

Land, S. portion, sandy rolling bench; N. portion, bare sandstone surface rock.

Soil, S. portion, shallow loose sand, 2nd rate; N. portion bare sandstone surface rock.

Undergrowth, S. portion, medium dense blackbrush, yellow top, mountain rush, oose, weeds, and grass; no vegetation on N. portion.

No timber.

Good grazing land on S. portion.

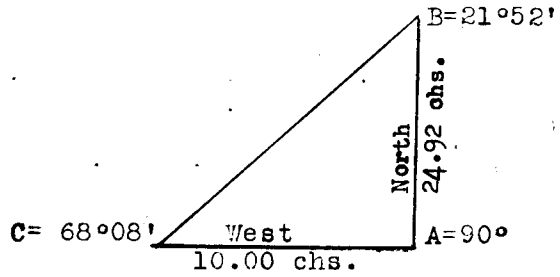
North, bet. secs. 1 and 6.

Chains	
	Descend gradually over NE. slope of broken bare sandstone surface rock.
26.50	Base of sandstone surface rock, bears NW., and SE. about 10.00 chs. dist., thence E.; descend gradual sandy NE. slope, through scattered short undergrowth.
31.60	Sandy draw, 30 ft. deep, drains E. about 9.50 chs. dist. to the Center Fork of Cane Wash.
36.60	Sandy draw, 20 ft. deep, drains E. about 8.00 chs. dist. to the Center Fork of Cane Wash.
37.84	Leave flag point.
40.00	On gradual sandy NE. slope, 100 ft. below sec. cor.
	Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground, for ¼ sec. cor., with brass cap marked

¼
S1 | S6
1934

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

43.10	Dry bottom of Center Fork of Cane Wash, 10 ft. below ¼ sec. cor., drains SE.; ascend gradual sandy S. slope.
48.50	Base of steep rocky SW. slope and inaccessible breaks of high mesa, over which it is impracticable to chain. To determine the distance to top of mesa, I triangulate as follows. Erect flag A at the 37.84 chs. point from S., and flag B on line North. From flag A, survey base line AC, West, 10.00 chs. dist., and erect flag C. From C, A-B subtends an angle of 68°08'. From B, A-C subtends an angle of 21°52'. Vertical angle from A to B is +21°22'. All angles checked by repetition and base line double chained.



Distance on line	37.84 chs.
Distance by triangulation	24.92 chs.
	62.76 chs.

62.76	Point B of triangulation at top of rim of mesa, 640 ft. above Center Fork of Cane Wash. Rim is a nearly vertical sandstone ledge, facing SW, 350 ft. high, bears NW. and SE.; thence over gently rolling top of mesa.
80.00	On gently rolling top of mesa, nearly level with rim.
	Set an iron post, 3 ft. long, 3 ins. diam., 12 ins. in the ground to solid rock, with a black lava rock, 14x14x10 ins., marked 6 grooves each on N.,S.,E.,and W.

U. S. GOVERNMENT PRINTING OFFICE: 1941 O—9155

Chains

faces, deposited at base, and in a mound of stone to top, for cor. of Tps. 42 and 43 S., Rs. 5 and 6 E., w/ brass cap marked

T42S	
R5E	R6E
S36	S31
S1	S6
T43S	

1934

Land, broken surface rock, patches of loose sand, and sandstone ledges, with general northeasterly and southerly exposure and drainage.

Soil, shallow patches of loose sand and sandstone surface rock; 2nd rate.

Undergrowth, black brush, yellow top, mountain rush, oak, weeds, and grass.

No timber.

Poor grazing land.

NORTH BOUNDARY OF T.43 S., R.5 E.

From the cor. of Tps. 42 and 43 S., Rs. 5 and 6 E., heretofore described.

West, along the N. boundary of T. 43 S., R.5 E., on a random line, for alinement only, and intersect the cor. of Tps. 42 and 43 S., Rs. 4 and 5 E., which is an iron post, 3 ins. diam., set, marked, and witnessed as described in the official record of the survey of T.43 S., R.4 E., Group 51, Utah.

Thence:

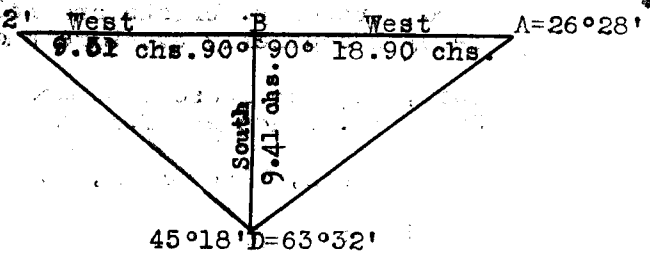
From the cor. of Tps. 42 and 43 S., Rs. 5 and 6 E., heretofore described.

West, on true line bet. secs. 1 and 36.

Over gently rolling mesa land, through scattered short undergrowth.

22.41 Rim of mesa, at top of a sandstone ledge, about 250 ft. high, facing SW., bears NW. and SE. The line W. of this point passes over the inaccessible breaks of the head of the Center Fork of Cane Wash, over which it is impracticable to chain. I therefore determine the distance by triangulation as follows. Erect flag A at this point, and flags B and C on line West. From flag B survey base line BD, South, 9.41 chs. dist. and erect flag D. From flag A, B-D subtends an angle of 26°28'. From D, A-B subtends an angle of 63°32'. From D, B-C subtends an angle of 45°18'. From C, B-D subtends an angle of 44°42'. Vertical angle from B to A is -20°45'. Vertical angle from B to C is +35°. All angles checked by repetition and base line double chained.

Chains



Distance on line	22.41 chs.
Distance by triangulation, A to B	18.90 chs.
Total distance on line to B	41.31 chs.
Distance by triangulation, B to C	9.51 chs.
Total distance on line to C	50.82 chs.

40.00 Point for ¼ sec. cor. falls on steep broken sandstone surface rock where it is impracticable to set a permanent cor.

40.57 Distance determined by return measurement from point B; On steep broken rocky S. slope, 480 ft. below rim.

Set an iron post, 3 ft. long, 1 in. diam., 15 ins. in the ground to solid rock, with a sandstone, 10x8x8 ins., marked X, deposited at base, and in a mound of stone to top, for witness cor. to the ¼ sec. cor., with brass cap marked

$$\frac{1}{4}\ \frac{S36}{S1}\ WC$$

1934

41.31 Point B of triangulation.

43.10 Distance determined by direct measurement from point B; bottom of a steep gulch, 20 ft. below the witness cor. to ¼ sec. cor., drains S.30°E. about 4.50 chs. dist., to head of Center Fork of Cane Wash, thence SE. The N. rim of breaks, bears N. about 6.00 chs. dist. from this point. The line to the W. of this point ascends over steep broken SE. slope and sandstone ledges.

50.82 Point C of triangulation at top of rim of mesa, 470 ft. above gulch, bears S.20°W., and NE. about 7.00 chs. dist., thence easterly. Rim is a nearly vertical ledge, 250 ft. high; thence over gently rolling top of mesa.

80.00 On gradual NW. slope of gently rolling top of mesa, 85 ft. above rim.

Set an iron post, 3 ft. long, 2 ins. diam., 27 ins. in the ground, for cor. of secs. 1, 2, 35, and 36, with brass cap marked

T42S	R5E
S35	S36
S2	S1

T43S

1934

Deposit a sandstone, 16x10x8 ins., marked X, alongside of cor.

No other suitable accessories available.

U. S. GOVERNMENT PRINTING OFFICE: 1931 0—8155

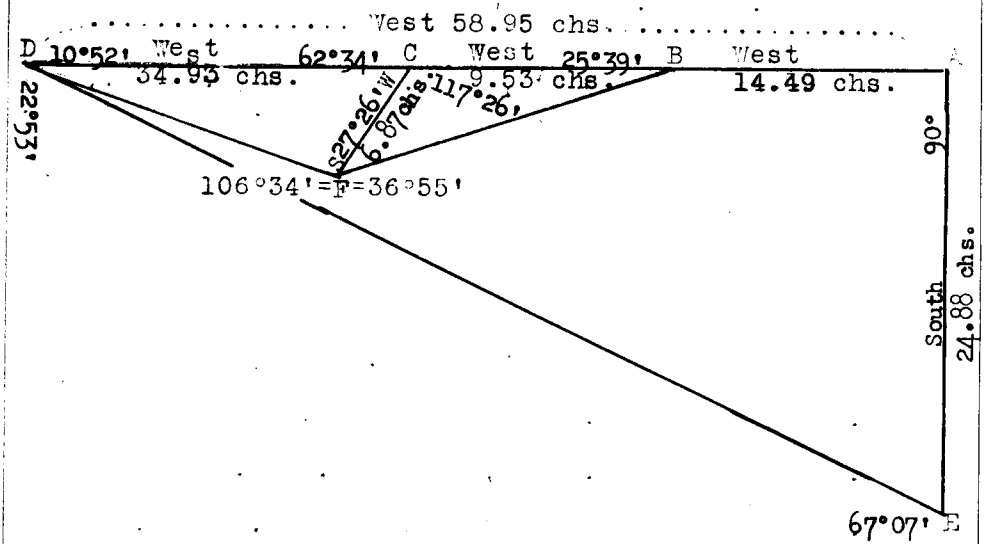
NORTH BOUNDARY OF T[illegible] S., R.5 E.

Chains	
	Land, broken S. breaks and rolling top of mesa, with general southerly exposure and drainage.
	Soil, shallow loose sand and sandstone surface rock; 3rd rate. Sandstone formation.
	Undergrowth, blackbrush, mountain rush, weeds, and grass.
	No timber.
	Grazing, good on mesa top; poor on breaks.
	West, bet. secs. 2 and 35.
	Over gently rolling top of mesa land, through scattered short undergrowth.
8.40	Draw, 40 ft. deep, drains SW. about 10.00 chs. dist., to rim of mesa, which bears NW. and SE.
18.60	Draw, 50 ft. deep, drains S. about 8.00 chs. dist., to N. rim of mesa, which bears SE. and SW.
40.00	On low gravelly spur, 20 ft. high, projects NW., 50 lks. dist.
	Set an iron post, 3 ft. long, 1 in. diam., 10 ins. in the ground to solid rock, with a sandstone, 10x10x8 ins., marked X, deposited at base, and in a mound of stone to top, for ¼ sec. cor., with brass cap marked ¼ S35/S2 1934
67.73	Leave flag point.
69.20	Rim of mesa, which is a nearly vertical ledge of sandstone, 150 ft. high, facing W., and bearing N.20°E. and S.20°W. The line to the West of this point passes over the inaccessible breaks of the mesa, over which I am unable to chain. I therefore determine the distance by triangulation as shown on line between secs. 3 and 34.
80.00	True point for cor. of secs. 2, 3, 34, and 35, falls on the S. face of a sloping sandstone ledge, where it is impracticable to set a permanent cor. The witness cor. to cor. of secs. 2, 3, 34, and 35, is set at a point, West, 4.56 chs. dist., from the true point for cor., as shown on line bet. secs. 3 and 34.
	Land, broken ledges and rolling mesa, with general southerly exposure and drainage.
	Soil, shallow loose sand and sandstone surface rock; 4th rate. Sandstone formation.
	Undergrowth, blackbrush, yellow top, mountain rush, weeds, and grass.
	No timber.
	Fair grazing on mesa top.

Chains

West, bet. secs. 3 and 34, counting distance from the true point for cor. of secs. 2, 3, 34, and 35.

The line to the West of true point for cor. of secs. 2, 3, 34, and 35, descends abruptly over broken SW. face of breaks of mesa, over which I am unable to chain. I therefore determine the distance by triangulation as follows. I designate the flag left East, 12.27 chs. dist., from the true point for cor. of secs. 2, 3, 34, and 35, as A. Erect flags B, C, and D, on line West. From A, survey base line AE, South, 24.88 chs. dist., and erect flag E. From C, survey base line CF, S.27°26'W., 6.87 chs. dist., and erect flag F. From E, flags A-D subtends an angle of 67°07'. From D, flags A-E subtends an angle of 22°53'. From F, flags B-C subtends an angle of 36°55'. From B, flags C-F subtends an angle of 25°39'. From F, flags C-D subtends an angle of 106°34'. From D, flags C-F subtends an angle of 10° 52'. Vertical angle from A to B is -15°36'. Vertical angle from B to C is -17°. Vertical angle from C to D is +11°30'. All angles checked by repetition and base lines double chained



Distance by triangulation, A to B	14.49 chs
Distance from A to point for sec. cor.	12.27 chs.
Distance to point B of triangulation	2.22 chs.
Distance by triangulation, B to C	9.53 chs.
Distance to point C of triangulation	11.75 chs.
Distance by triangulation, C to D	34.93 chs.
Distance to point D of triangulation	46.68 chs.

2.22 Point B of triangulation, 270 ft. below rim of mesa, and 70 ft. below true point for cor. of secs. 2, 3, 34, and 35, on sharp rocky point that slopes S. from rim of mesa.

4.56 Distance determined by direct measurement from point B of triangulation; on steep rocky SW. slope, 325 ft. below rim.

Set an iron post, 3 ft. long, 2 ins. diam., 27 ins. in the ground, for witness cor. to the cor. of secs. 2, 3, 34, and 35, with brass cap marked

T42S R5E
S34 | S35
WC
S3 | S2
T43S

1934

U. S. GOVERNMENT PRINTING OFFICE: 1931 6—8155

NORTH BOUNDARY OF T.43 S., R.5 E.

Chains	
	raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.
	The line to the West of this witness cor. descends abruptly over broken sandstone ledges, over which it is impossible to chain.
11.75	Point C of triangulation, 100 ft. below witness cor., at base of inaccessible ledges, bears NW. and SE. Thence by chaining; descend abruptly over broken rocky SW. slope
14.20	Bottom of Navajo Canyon, 230 ft. below witness cor., drains S. The line to the West of this point ascends the abrupt inaccessible breaks of mesa over which I am unable to chain.
40.00	The true point for ¼ sec. cor. falls in breaks of mesa, where it is impossible to reach the cor. point.
46.68	Point D of triangulation, at top of rim of mesa, 550 ft. above Navajo Canyon. The rim at this point is a nearly vertical ledge, about 150 ft. high, facing E., and bears N. and S. Mark a cross on sandstone surface rock, over which:
	Set an iron post, 3 ft. long, 1 in. diam., in a large mound of stone, for witness cor. to the ¼ sec. cor., with brass cap marked
	¼ S34/S3 WC 1934
	Thence ascend gradual NE. slope, on top of mesa.
58.40	Draw, 40 ft. deep, drains NE.
69.50	Draw, 20 ft. deep, drains N.60°E.
76.50	Enter level bench land, bears N. and S.
80.00	On level bench land, 20 ft. above rim of mesa.
	Set an iron post, 3 ft. long, 2 ins. diam., 27 ins. in the ground, for cor. of secs. 3, 4, 33, and 34, with brass cap marked
	T42S R5E S33 | S34 S4 | S3 T43S 1934
	Deposit a sandstone, 8x4x3 ins., marked X, at base of post. No other suitable accessories available.
	Land, East 46.68 chs., broken sandstone ledges and surface rock, with general southerly exposure and drainage; remainder of mile gently rolling mesa land, with general northeasterly exposure and drainage.
	Soil, shallow loose sand and red shale; 4th rate. Sandstone formation.
	Undergrowth, blackbrush, mountain rush, oose, shadscale, greasewood, weeds, and grass.

U. S. GOVERNMENT PRINTING OFFICE: 1935 6—8155

Chains	
	No timber.
	Grazing, poor on E. portion; good on mesa top.

West, bet. secs. 4 and 33.

Over nearly level bench land on top of mesa, through scattered short undergrowth.

15.00 Leave nearly level bench, bears NW. and SE.; thence over gently rolling W. slope of mesa land.

40.00 On gradual W. slope, nearly level with sec. cor.

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

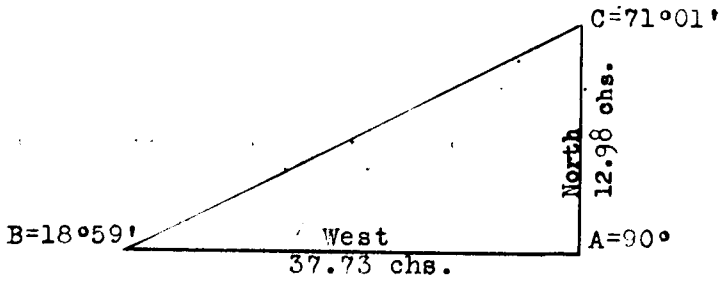
$$\frac{1}{4}\ \frac{S33}{S4}$$

1934

Deposit a sandstone, 6x4x3 ins., marked X, at base of post. No other suitable accessories available.

42.27 Leave flag point.

52.00 Rim of mesa and East rim of Gunsight Canyon, which is a nearly vertical ledge, about 150 ft. high, facing West, and bears N. and S. The line to the West of this point passes over sandstone ledges and surface rock, over which I am unable to chain. To determine the distance across the breaks of Gunsight Canyon, I return to the 42.27 chs. point from the East and triangulate as follows. Erect flag A at 42.27 chs. point, and flag B on line West. From flag A, survey base line AC, North, 12.98 chs. dist., and erect flag C. From C, flags A-B subtends an angle of 71°01'. From B, flags A-C subtends an angle of 18°59'. Vertical angle from A to B is 0°. All angles checked by repetition and base line double chained.



Distance on line	42.27 chs.
Distance by triangulation	37.73 chs.
Distance to point B of triangulation	80.00 chs
Distance by return measurement	5.00 chs.
	75.00 chs.

62.50 Approximate distance to the bottom of Gunsight Canyon, about 500 ft. below rim, drains S.; ascend abruptly over inaccessible sandstone ledges and surface rock, over which I am unable to chain.

75.00 Distance by return measurement from point B of triangulation; rim of mesa; top of inaccessible breaks on the W.

U. S. GOVERNMENT PRINTING OFFICE: 1934 6—8155

Chains

side of Gunsight Canyon, 500 ft. above bottom. The rim is a nearly vertical sandstone ledge, facing E., about 150 ft. high, bears N. and S.; thence over broken top of mesa.

80.00 Point B of triangulation on gradual SE. slope of broken top of mesa, nearly level with rim.

Set an iron post, 3 ft. long, 2 ins. diam., 27 ins. in the ground, for cor. of secs. 4, 5, 32, and 33, with brass cap marked

T42S R5E
S32 | S33
S5 | S4
T43S

1934

Deposit a black volcanic stone, 12x10x8 ins., marked X, alongside of post. No other suitable accessories available.

Land, rolling mesa and broken sandstone ledges and surface rock, with general southerly exposure and drainag

Soil, shallow loose sand, blue clay, shale, and sandstone surface rock, with scattered volcanic rock on surface; 4th rate. Sandstone formation:

Undergrowth, blackbrush, greasewood, yellow top, mountain rush, oose, weeds, and grass.

No timber.

Good grazing land.

West, bet. secs. 5 and 32.

Over rolling mesa land, through scattered short undergrowth.

40.00 On gentle SE. slope of rolling mesa land, nearly level with sec. cor.

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

S32
¼
S5

1934

Deposit a sandstone, 6x4x3 ins., marked X, at base of post. No other suitable accessories available.

57.50 Low rise, 20 ft. high, bears N. and S.

77.50 Draw, 10 ft. deep, drains N.

80.00 On gradual N. slope, on rolling mesa land.

Set an iron post, 3 ft. long, 2 ins. diam., 27 ins. in the ground, for cor. of secs. 5, 6, 31 and 32, with brass cap marked

Chains

T42S R5E
S31 | S32
S6 | S5
T43S

1934

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

Land, rolling mesa, with general southeasterly and northerly exposure and drainage.

Soil, shallow sand, blue clay, and shale, with scattered volcanic rock on surface; 4th rate. Sandstone formation.

Undergrowth, blackbrush, shadscale, greasewood, yellow top, mountain rush, weeds, and grass.

No timber.

Good grazing land.

West. bet. secs. 6 and 31.

Over gently rolling land on top of mesa, through scattered short undergrowth.

27.00 Head of draw, 15 ft. deep, drains S.60°W.

40.00 On gentle SW. slope, nearly level with sec. cor.

Set an iron post, 3 ft. long, 1 in. diam., 6 ins. in the ground, to solid rock, with a sandstone, 24x18x4 ins., marked X, deposited at base, and in a mound of stone to top, for ¼ sec. cor., with brass cap marked

¼ S31 / S6

1934

43.50 Head of a small draw, 10 ft. deep, drains SW.

53.00 Spur, 30 ft. high, projects SW.; descend gradual W. slope.

72.00 Draw, 30 ft. below top of spur, drains SW.; ascend gradual E. slope.

78.50 Intersect the cor. of Tps. 42 and 43 S., Rs. 4 and 5 E., heretofore described, 10 ft. above draw.

Land, rolling mesa, with general southwesterly exposure and drainage.

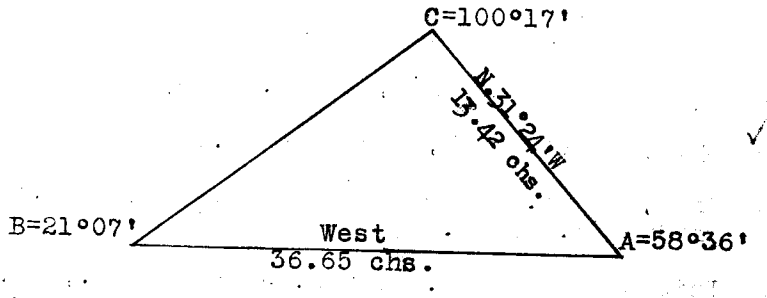
Soil, shallow gravel, sand, blue clay, shale, and sandstone surface rock; 4th rate.

Undergrowth, scattered shadscale, blackbrush, greasewood, mountain rush, yellow top, weeds, and grass.

No timber.

Good grazing land.

Chains	
	The S. boundary of sec. 36 has not a full linear boundary, and the point for the cor. of secs. 1, 2, 35, and 36, falls on the S. side of the Colorado River, in the Navajo Indian Reservation.
	Therefore:
	From the cor. of secs. 25, 30, 31, and 36, on the E. boundary of the township, heretofore described.
	West, on true line bet. secs. 25 and 36.
	Ascend gradually over sandy gently rolling bench land, through scattered short undergrowth.
15.00	Sandy rise, 15 ft. above sec. cor., bears NW. and SE.; descend gradual sandy SW. slope.
40.00	On sandy gradual SW. slope, 110 ft. below top of rise.
	Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground, for ¼ sec. cor., with brass cap marked
	$\frac{1}{4}\frac{S25}{S36}$
	1934
	Deposit a sandstone, 8x6x3 ins., marked X, at base of post. No other accessories available.
45.01	Rim of bench and E. rim of breaks of Gunsight Canyon, 35 ft. below ¼ sec. cor., bears NW. and S. The line to the W. of this point passes over the inaccessible breaks and sandstone ledges of Gunsight Canyon, over which I am unable to chain. I therefore triangulate across the breaks of Gunsight Canyon as follows. Erect flag A at this point and flag B on line West. From A, survey base line AC, N.31°24'W., 13.42 chs. dist.; and erect flag C. From flag C, A-B subtends an angle of 100°17'. From flag B, A-C subtends an angle of 21°07'. Vertical angle from A to B is 0°. All angles checked by repetition and base line double chained.



Distance on line	45.01 chs.
Distance by triangulation	36.65 chs.
Distance to point B of triangulation	81.66 chs.
Distance by return measurement	1.66 chs.
	80.00 chs.

62.00	Approximate distance to the bottom of Gunsight Canyon at a bend, drains SE. from SW., 250 deep, 50 lks. wide, with nearly vertical sandstone walls. Line passes over the inaccessible breaks of Gunsight Canyon over which it is impracticable to chain.
80.00	By return measurement from point B of triangulation; the

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Chains

true point for cor. of secs. 25, 26, 35, and 36, falls in the bottom of Gunsight Canyon, where it is impossible to set a permanent cor. The canyon at this point is a narrow gorge, with nearly vertical sandstone walls 150 ft. high, drains S. about 3.00 chs. dist., thence E.; ascend abruptly over W. breaks of Gunsight Canyon.

81.66 Point B of triangulation on W. rim of Gunsight Canyon, bears S., and N. 1.00 ch. dist., thence NE.

Set an iron post, 3 ft. long, 2 ins. diam., 27 ins. in the ground, for the witness cor. to cor. of secs. 25, 26, 35, and 36, with brass cap marked

T43S	R5E
S26	S25
S35	S36

WC

1934

raise a mound of stone, 2½ ft. base, 2 ft. high, W. of cor.

Land, rolling bench and broken sandstone surface rock and ledges, with general southerly exposure and drainage.

Soil, shallow loose sand and sandstone surface rock; 3rd rate. Sandstone formation.

Undergrowth, scattered blackbrush, yellow top, mountain rush, oose, weeds, and grass.

No timber.

Good grazing land on E. portion; poor on W. portion.

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

S.0°01'E., on true line bet. secs. 35 and 36.

The line to the S. of the true point for cor. of secs. 25, 26, 35, and 36, follows along the inaccessible breaks of Gunsight Canyon, over which I am unable to chain. I therefore run on offset and traverse lines over broken sandstone surface rock, near the W. rim of canyon, from the true point for cor. of secs. 25, 26, 35, 36, which is 1.66 chs. E. of witness cor. to the cor. of said secs., as follows:

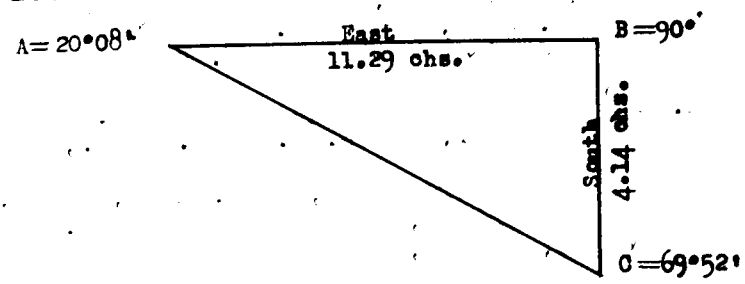
West, 3.58 chs. dist., thence:
South, 14.42 chs. dist., thence:
S.13°45'W., 26.33 chs. dist., to:

40.00 Point on offset line, 9.85 chs. W. of true point for ¼ sec. cor. True point for ¼ sec. cor. falls in the bottom of Gunsight Canyon, which is a narrow gorge with nearly vertical walls of sandstone, about 420 ft. deep, drains SW. Impracticable to set permanent cor. at true position.

The line to the E. of point on offset line passes over the inaccessible breaks of Gunsight Canyon, over which I am unable to chain. I therefore determine the distance to the E. side of Gunsight Canyon as follows. Erect flag A at point on offset line and flag B on line E. Survey base line BC, South, 4.14 chs. dist. from B, and erect

Chains

flag C. From C, flags A-B subtends an angle of 69°52'. From A, flags B-C subtends an angle of 20°08'. Vertical angle from A to B is 0°. All angles checked by repetiti and base line double chained.



Distance by triangulation, East, 11.29 chs.; thence: S.69°30'W., 1.54 chs. dist., by direct measurement, to

40.54 Point on true line, on E. rim of Gunsight Canyon, bears NE. and SW., which is S.0°01'E., 54 lks. dist. from true point for ¼ sec. cor. Mark a cross on sandstone surface rock, over which:

Set an iron post, 3 ft. long, 1 in. diam., 6 ins. in a drilled hole at center of cross in sandstone surface rock, and in a large mound of stone to top, for witness cor. to the ¼ sec. cor., with brass cap marked

WC
¼
S35 | S36
1934

The line to the S. of this cor. passes over the inaccessible sandstone ledges and breaks of Gunsight Canyon, over which I am unable to chain. I therefore return to the point left West, 9.85 chs. dist. from the true point for ¼ sec. cor., and run on offset and traverse lines as follows.

S.13°45'W., 15.21 chs. dist., thence:
S.33°30'E., 13.90 chs. dist., thence:
East, 5.81 chs. dist., to:

66.36 Point on true line; thence S.0°01'E., on true line over broken sandstone surface rock.

67.52 Top of a nearly vertical sandstone ledge on right rim of Colorado River, about 600 ft. high, bears E. and W.

Set an iron post, 24 ins. long, 1 in. diam., 14 ins. in a hole drilled in sandstone surface rock, for witness cor. to the meander cor. of secs. 35 and 36, with brass cap marked

T43S | R5E
S35 | S36
MC
WC
1934

68.00 The estimated true point for meander cor. of secs. 35 and 36, at the mean high water mark on the right bank of the Colorado River, falls on the S. face of a nearly vertical ledge, where it is impracticable to set cor.

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chains

Land, broken sandstone surface rock and ledges, with general southerly exposure and drainage.

Soil, shallow patches of loose sand and sandstone surface rock; 4th rate. Sandstone formation.

Undergrowth, scattered patches of blackbrush, yellow top, mountain rush, weeds, and grass.

No timber.

Poor grazing land.

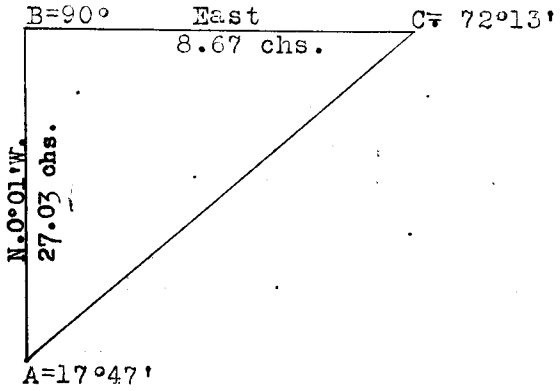
From the true point for the cor. of secs. 25, 26, 35, and 36, which is 1.66 chs. E. of witness cor. to the cor. of said secs.

N.0°01'W., bet. secs. 25 and 26.

The line to the N. of true point for cor. of secs. 25, 26, 35, and 36, follows along the inaccessible breaks of Gunsight Canyon, over which I am unable to chain. I therefore run on an offset line, distances counted from the true point for cor. of secs. 25, 26, 35, and 36, as follows.

West, 3.58 chs. dist., thence:
N.0°01'W., 17.15 chs. dist., thence:
East, 3.58 chs. dist., to:

17.15 Point on true line at top of SW. rim of Gunsight Canyon, bears NW. and SE. The line to the N. of this point, passes over broken sandstone surface rock and ledges of inaccessible breaks of Gunsight Canyon, over which I am unable to chain. I therefore determine the distance across the breaks by triangulation as follows. Erect flag A at this point and flag B on line N. From B, survey base line BC, East, 8.67 chs. dist., and erect flag C. From C, flags A-B subtends an angle of 72°13'. From A, flags B-C subtends an angle of 17°47'. Vertical angle from A to B is 0°. All angles checked by repetition and base line double chained.



Distance on line	17.15 chs.
Distance by triangulation	27.03 chs.
Distance to point B of triangulation	44.18 chs.

22.20 Approximate distance to the bottom of Gunsight Canyon, about 380 ft. deep, with high nearly vertical sandstone walls, drains S.30°E.; line to the N. passes over sandstone ledges and broken surface rock over which I am unable to chain.

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Chains	
40.00	True point for ¼ sec. cor. falls in inaccessible breaks of Gunsight Canyon, where it impossible to reach the cor. point and set a permanent cor.
44.18	Point B of triangulation at top of NE. breaks of Gunsight Canyon, 380 ft. above bottom, bears S.80°E., and N.80°W., 2.00 chs. dist., thence N.; on sandstone surface rock, mark a cross, over which:

Set an iron post, 3 ft. long, 1 in. diam., in a large mound of stone to top, for witness cor. to the ¼ sec. cor., with brass cap marked

¼
S26 | S25
WC

1934

Thence, by chaining, ascend gradually over broken bench land.

57.00	Top of broken sandstone rim, 40 ft. high, facing S, bears W., and E. 2.00 chs. dist., thence S.30°E.; continue over broken bench land.
60.00	On broken bench land, 40 ft. above witness cor. to the ¼ sec. cor. secs. 25 and 26.

Set an iron post, 3 ft. long, 2 ins. diam., 18 ins. in the ground to solid rock, with a sandstone, 20x12x10 ins. marked X, deposited at base, and in a mound of stone to top, for cor. of secs. 23, 24, 25, and 26, with brass cap marked

T43S R5E
S23 | S24
S26 | S25

1934

Land, broken sandstone ledges and surface rock, and broken bench land, with general southerly exposure and drainage.

Soil, shallow loose red sand and sandstone surface rock; 4th rate. Sandstone formation.

Undergrowth, scattered blackbrush, yellow top, mountain rush, weeds, and grass.

No timber.

Poor grazing on S. portion; fair on N. portion.

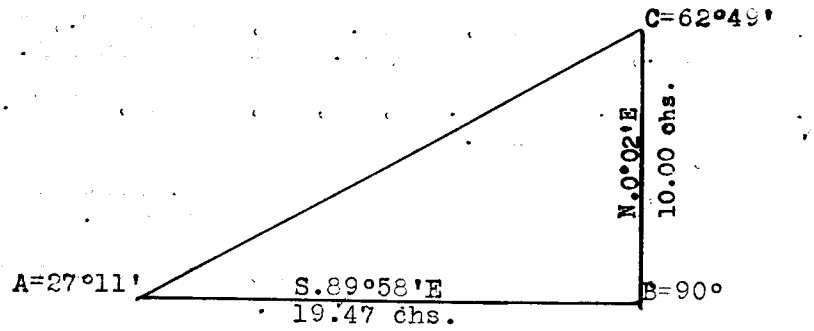
East, on random line bet. secs. 24 and 25.

40.00	Set temp. ¼ sec. cor.
80.00	Intersect E. bdy. of Tp., 5 lks. N. of cor. of secs. 19, 24, 25, and 30, heretofore described.

Thence:

Chains	
	N.89°58'W., on true line bet. secs. 24 and 25.
	Ascend gradually over general broken E. slope of sandstone surface rock, through scattered short undergrowth.
7.40	Rim of sandstone breaks, facing E., 85 ft. above cor., bears N. and S.; thence over flat top of spur, projecting N.
12.40	West rim of flat top of spur, bears N.30°E., and S.60°W. about 5.00 chs. dist., thence S.30°W.; descend abrupt W. slope over sandstone surface rock and small ledges.
22.70	Gulch, 85 ft. below spur, drains N.30°E.; ascend abrupt E. slope over sandstone ledges and surface rock.
26.90	Rim of flat top of spur, 85 ft. above gulch, bears N.35°E. and S.35°W.; thence over flat top of spur, projecting N.
33.00	West rim of flat top of spur, bears NE., and S.20°W. about 3.00 chs. dist., thence NW.; thence over sandstone surface rock and small ledges across a small cove.
40.00	On N. point of sandstone rim, nearly level with flat top of spur, bears S.30°E. and SW., mark a cross on sandstone surface rock, over which:
	Set an iron post, 3 ft. long, 1 in. diam., in a large mound of stone to top, for ¼ sec. cor., with brass cap marked
	¼ S24 / S25
	1934
	Thence descend over sandstone surface rock and small broken sandstone ledges.
42.50	Sandstone gulch, 75 ft. deep, heads SW. about 2.50 chs. dist., and drains NE.
51.90	Main sandstone gulch, 100 ft. below ¼ sec. cor., drains NE.; ascend abruptly over broken sandstone surface rock and ledges on general E. slope.
59.40	Rim of W. breaks of gulch and top of a vertical sandstone ledge, 15 ft. high, facing E., bears NE. and S.30°W.; thence over broken bench land.
80.00	The cor. of secs. 23, 24, 25, and 26, 30 ft. above rim.
	Land, broken sandstone surface rock and bench land, with general northeasterly exposure and drainage.
	Soil, shallow loose red sand and sandstone surface rock; 4th rate. Sandstone formation.
	Undergrowth, scattered blackbrush, shadscale, yellow top, sagebrush, mountain rush, weeds, and grass.
	No timber.
	Poor grazing land.

Chains	
	N.0°01'W., bet. secs. 23 and 24.
	Over broken bench land, through scattered short undergr
11.00	Bottom of a wide shallow draw, drains E.
40.00	On a low rise, projects NE. and bears W. 2.00 chs. dist to the base of NE. point of high sandstone ledges, which bears NW. and SW., mark a cross on sandstone surface rock, over which:
	Set an iron post, 3 ft. long, 1 in. diam., in a large mound of stone to top, for ¼ sec. cor., with brass cap marked
	¼ S23 | S24 1934
71.80	Shallow draw, drains E.
80.00	In bottom of a wide shallow draw, drains N.80°E.
	Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the ground to solid rock, with a sandstone, 24x18x4 ins., marked X, deposited at base, and in a mound of stone to top, for cor. of secs. 13, 14, 23, and 24, with brass cap marked
	T43S R5E S14 | S13 S23 | S24 1934
	Land, broken bench, with general easterly exposure and drainage.
	Soil, shallow loose red sand, mixed with rock; 4th rate. Sandstone formation.
	Undergrowth, shadscale, blackbrush, weeds, and grass.
	No timber.
	Poor grazing land.
	S.89°58'E., on random line bet. secs. 13 and 24.
40.00	Set temp. ½ sec. cor.
40.02	Leave flag point.
42.50	The line to the E. of this point passes over the inaccessable breaks of Navajo Canyon, over which I am unable to chain. I therefore determine the distance by triangulatio as follows. Erect flag A at 40.02 chs. point and flag B on line S.89°58'E. From B, survey base line BC, N.0°02'E. 10.00 chs. dist., and erect flag C. From A, flags B-C subtends an angle of 27°11'. From C, flags A-B subtends an angle of 62°49'. Vertical angle from A to B is 0°. All angles checked by repetition and base line double chained.

Chains	
	
	Distance on line 40.02 chs. Distance by triangulation 19.47 chs. Distance to point B of triangulation 59.49 chs.
59.49	Point B of triangulation.
80.04	Intersect E. bdy. of Tp., 18 lks. N. of cor. of secs. 13, 18, 19, and 24, heretofore described.
	Thence:
	N.89°50'W., on true line bet. secs. 13 and 24.
	Ascend gradual SE. slope of broken sandstone surface rock.
5.00	Rim of N. breaks of Navajo Canyon, 30 ft. above cor., bears N.60°E. and S.60°W.; thence over broken bench land, through scattered short undergrowth.
20.55	NE. rim of Navajo Canyon, bears NW., and SE. about 4.00 chs. dist., thence S.80°E.; descend abruptly over broken sandstone surface rock and ledges, and inaccessible breaks of Navajo Canyon.
30.00	Approximate distance; stream of good water, 5 lks. wide, 2 ins. deep, in bottom of Navajo Canyon, 250 ft. below E. rim, flows SE. Bottom of canyon is about 50 lks. wide, with vertical walls 50 ft. high. Ascend abruptly over inaccessible W. breaks of canyon.
37.50	SW. rim of breaks of Navajo Canyon at bend, 220 ft. above bottom, bears N.70°E. and SE.; ascend gradual SE. slope covered with black volcanic boulders.
40.02	On rocky SE. slope, 30 ft. above rim of canyon.
	Set an iron post, 3 ft. long, 1 in. diam., 20 ins. in the ground to solid rock, with a volcanic stone, 24x10x8 ins., marked X, deposited at base, and in a mound of stone to top, for ¼ sec. cor., with brass cap marked
	¼ S13 / S24 1934
42.00	Spur, 30 ft. above ¼ sec. cor., covered with black volcanic boulders, projects N.70°E.; descend abrupt NW. slope. From this point a high sandstone butte, bears N.15°W., approximately 47.00 chs dist.
54.60	Sandstone gulch, 100 ft. deep, drains N.30°E., about 7.00 chs. dist., to Navajo Canyon.

SUBDIVISION OF T.43 S., R.5 E.

Chains	
23.00	Sandstone gulch, 75 ft. deep, drains NE., about 10.00 ch. dist., to Navajo Canyon.; ascend gradual E. slope.
30.04	The cor. of secs. 13, 14, 23, and 24, 75 ft. above bottom of gulch.
	Land, broken bench and sandstone surface rock, with general easterly exposure and drainage.
	Soil, shallow loose red sand, mixed with rock; 4th rate. sandstone formation.
	Undergrowth, scattered shadscale, yellow top, blackbrush, weeds and grass.
	No timber.
	Poor grazing land.

N.0°01'W., bet. secs. 13 and 14.

Descend gradual NE. slope of broken bench land, over sandstone surface rock and small ledges, through scattered short undergrowth.

31.00 Bend in bottom of Navajo Canyon, 80 ft. below sec. cor., from N.10°E., drains S.10°E. in narrow gorge, with nearly vertical walls 80 ft. high; stream heads in bottom of canyon, SE. about 25.00 chs. dist; ascend over general broken E. slope of sandstone ledges and surface rock.

33.00 Top of ascent and rim of Navajo Canyon, 80 ft. above, bottom, bears E. and W., descend abruptly.

34.00 Dry bottom of Navajo Canyon, 60 ft. below top of ascent, drains SE., 2.00 chs. dist., thence S.20°E., in a narrow gorge with nearly vertical walls; ascend abrupt SW. slope of sandstone ledges and surface rock.

34.50 North rim of canyon, 60 ft. above bottom, bears E. and W.; thence ascend gradually over SW. slope.

37.00 Base of broken S. breaks and sandstone ledges, bears E. and W.; ascend abrupt broken S. slope of high reef.

40.00 On steep broken S. slope, 120 ft. above bottom of Navajo Canyon.

Set an iron post, 3 ft. long, 1 in. diam., 20 ins. in the ground to solid rock, with a sandstone, 20x10x9 ins., marked X, deposited at base, and in a mound of stone to top, for ¼ sec. cor., with brass cap marked

¼

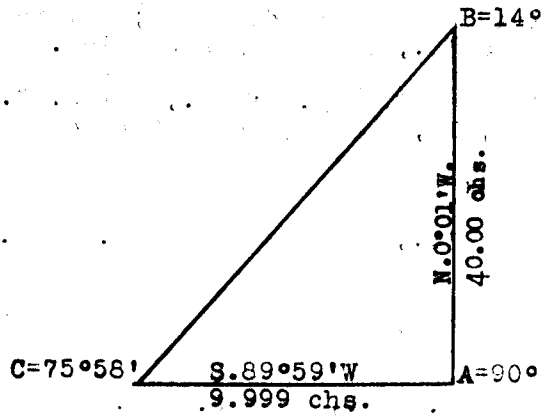
S14 | S13

1934

45.00 Base of vertical sandstone ledges, about 230 ft. high, facing SW., bears NW. and SE., make it impossible to continue N.0°01'W. on true line. I return to the 40.00 chs. point and offset, West, 4.86 chs. dist. The line N. of this point passes over inaccessible sandstone ledges and breaks of high reef, over which it is impossible to chain. To determine the distance I triangulate

Chains

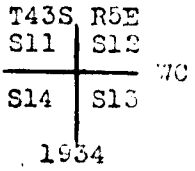
en offset line as follows. Erect flag A at this point and flag B on line N.0°01'W. From A, survey base line AC, S89°59'W., 9.999 chs. dist., and erect flag C. From C, flags A-B subtends an angle of 75°58'. From B, flags A-C subtends an angle of 14°02'. Vertical angle from A to B is + 8°06'. All angles checked by repetition and base line double chained.



Distance on line	40.00 chs.
Distance by triangulation on offset line	40.00 chs.
	80.00 chs.

80.00 Point B of triangulation on top of a sharp bare sandstone reef, 380 ft. above ¼ sec. cor., bears N.30°W. and S.30°E.

Set an iron post, 2 ft. long, 1 in. diam., 14 ins. in a hole drilled in sandstone surface rock, for witness cor. to the cor. of secs. 11, 12, 13, and 14, with brass cap marked



This witness cor. is West, 4.86 chs. dist., from the true point for cor. of secs. 11, 12, 13, and 14. True point falls on steep NE. slope of bare sandstone reef, where it is impracticable to set a permanent cor.

Land, broken bench and sandstone surface rock on S. portion; broken bare sandstone reef on N. portion. General southerly exposure and drainage on entire mile.

Soil, shallow rocky red sand and surface rock; 4th rate. Sandstone formation.

Undergrowth, shadscale, blackbrush, yellow top, weeds, and grass.

No timber.

Poor grazing land.

S.89°50'E., on random line bet. secs. 12 and 13.

From the true point for cor. of secs. 11, 12, 13, and 14, which is E., 4.86 chs. dist., from the witness cor. to said secs.

SUBDIVISION OF T.43 S., R.6 E.

Chains	
	Line passes over the steep inaccessible NE. slope of bare sandstone reef, over which I am unable to chain. I therefore run on offset line as follows: N.0°01'W., 14.19 chs. dist., thence: S.89°50'E., 40.00 chs. dist., thence: S.0°01'E., 14.19 chs. dist., to:
40.00	Point on true random line; set temp. ¼ sec. cor.; thence S.89°50'E., on true random line.
80.06	Intersect E. bdy. of Tp., 5 lks. S., of cor. of secs. 7, 12, 13, and 18, heretofore described. Thence: N.89°52'W., on true line bet. secs. 12 and 13. Descend gradually over general broken S. slope of sandy bench land, through scattered short undergrowth.
10.90	Bend in bottom of Left Fork of Cane Wash, 40 ft. deep, drains S.50°E., from S.70°W.; continue along S. slope.
18.50	Bottom of Left Fork of Cane Wash, with small intermittent seeps southeasterly to Colorado River, and northwesterly about 10.00 chs. dist., along the bottom, 40 ft. below sec. cor., drains S.60°E.; ascend gradual E. slope of sandy bench land.
40.03	On gentle E. slope, 80 ft. above bottom of Left Fork of Cane Wash. Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground, for ¼ sec. cor., with brass cap marked $\frac{1}{4}\ \frac{S12}{S13}$ 1934 Deposit a sandstone, 8x6x6 ins., marked X, at base of post. No other accessories available. From this cor. the top of S. point of a high mesa, bears N.59°W. about 67.00 chs. dist. The top of high prominent peaks on a sandstone reef, bears N.76°W., about 52.00 chs. dist.; N.61°45'W., about 62.50 chs. dist.; S.74°W. about 39.00 chs. dist. The base of sandstone ledges at S. end of breaks of a high mesa, bears N.10°E., about 25.00 chs. dist. The base of a bare sandstone reef, bears S. about 10.00 chs. dist.
40.06	Leave flag point.
54.50	East base of a high sandstone reef, bears NW. and SE., over which I am unable to chain because of steep bare sandstone slopes and inaccessible ledges. I therefore return to the point left at 40.06 chs. and offset as follows: N.0°01'W., 14.19 chs. dist., thence: N.89°52'W., 40.00 chs. dist., giving topography on the offset line, counting distances from the cor. of secs. 7, 12, 13, and 18.
48.00	The top of a bare sandstone dome, 35 ft. high, 2.00 chs. diam., bears South, 5.60 chs. dist.

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Chains	
55.70	The top of a bare sandstone dome, 35 ft. high, 1.00 ch. diam., bears North, 2.50 chs. dist.
59.90	North base of a bare sandstone dome, 80 ft. high, 3,50 chs. diam., bears South, 20 lks. dist.,
66.80	North base of a bare sandstone dome, 100 ft. high, 4.00 chs. diam., bears South, 60 lks. dist.
75.90	Base of bare sandstone reef, bears N.60°W., and S. about 3.50 chs. dist., thence S.80°E.; ascend abruptly over broken E. slope of reef.
80.06	From this point I offset S.0°01'E., 14.19 chs. dist., to the true point for cor. of secs. 11, 12, 13, and 14, 300 ft. above ¼ sec. cor.
	Land, rolling bench and bare sandstone reef, with general easterly exposure and southeasterly drainage.
	Soil, shallow loose sand and sandstone surface rock; 3rd rate. Sandstone formation.
	Undergrowth, blackbrush, yellow top, sagebrush, mountain rush, oose, weeds, and grass.
	No timber.
	Good grazing land on east portion.

N.0°01'W., bet. secs. 11 and 12.

From the true point for the cor. of secs. 11, 12, 13, and 14, which is East, 4.86 chs. dist., from the witness cor. to the cor. of said secs.

Descend abrupt NE. slope of bare sandstone reef, over nearly inaccessible ledges.

16.00	Base of sandstone reef, bears N.20°W., and S.70°E., thence over gently rolling sandy land.
29.20	Sandy draw, 60 ft. deep, drains N.60°E. about 6.00 chs. dist., thence S.75°E.
40.00	On gentle NE. slope of rolling sandy land, 300 ft. below true point for cor. of secs. 11, 12, 13, and 14.
	Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground, for ¼ sec. cor., with brass cap marked

¼

S11 | S12

1934

Deposit a sandstone, 8x6x3 ins., marked X, at base of post. No other accessories available.

59.00	Base of bare sandstone reef, bearing N.20°W. and S.20°W., bears West, 1.00 chs. dist.
76.20	Left Fork of Cane Wash, 50 lks. wide, 2 ft. deep, drains SE., 40 ft. below ¼ sec. cor.; ascend gradual sandy SW. slope.

Chains
80.00 On gradual SW. slope, 30 ft. above bottom of Left Fork of Cane Wash.

Set an iron post, 3 ft. long, 2 ins. diam., 27 ins. in the ground, for cor. of secs. 1, 2, 11, and 12, with brass cap marked

T43S R5E	
S 2	S 1
S11	S12

1934

raise a mound of stone, 2½ ft. base, 2 ft. high, W. of cor.

Land, broken sandstone reef and rolling sandy bench, with general easterly exposure and drainage.

Soil, shallow sand and sandstone surface rock; 2nd rate. Sandstone formation.

Undergrowth, blackbrush, yellow top, mountain rush, oose, weeds, and grass.

No timber.

Good grazing land.

S.89°52'E., on random line bet. secs. 1 and 12.

12.00 Base of inaccessible S.point of high mesa, over which it is impossible to chain, I therefore offset as follows:

South, 21.03 chs. dist., thence:
S.89°52'E., 28.00 chs. dist., thence:
North, 21.03 chs. dist., to:

40.00 Point on true random line; set temp ¼ sec. cor.; thence S.89°52'E., on true random line.

40.06 Intersect E. bdy. of Tp., 19 lks. S. of cor. of secs. 1, 6, 7, and 12, heretofore described.

Thence:

West, on true line bet. secs. 1 and 12.

Descend gradually along steep S. slope of bare sandstone surface rock and ledges.

32.00 Draw, 120 ft. below sec. cor., heads N.20°W. about 15.00 chs. dist., and drains S.60°E.; base of sandstone surface rock at N. end of a sandy cove, bears S.20°E., and S.75°E. about 10.00 chs. dist., thence SE.; ascend abrupt E. slope of sandstone surface rock and ledges.

40.00 On steep broken E. slope, in small patch of sand and boulders, 190 ft. above draw.

Set an iron post, 3 ft. long, 1 in. diam., 12 ins. in the ground to solid rock, with a sandstone, 10x8x6 ins., marked X, deposited at base, and in a mound of stone to top, for ¼ sec. cor., with brass cap marked

Chains

S 1 /
S12

1934

40.06 Leave flag point.

46.50 Base of a nearly vertical inaccessible sandstone ledge, about 300 ft. high, facing E., over which it is impracticable to chain. I therefore offset around the S. end of ledge, from the 40.06 chs. point, as follows:

South, 21.03 chs. dist., thence:
West, 28.00 chs. dist., thence:
North, 21.03 chs. dist., to:

68.06 Point on true line at base of inaccessible sandstone ledges and surface rock, facing W., about 500 ft. high, bears N.10°W. and S.10°E.; thence West on true line, over gently rolling SW. slope, through scattered short undergrowth.

80.06 The cor. of secs. 1, 2, 11, and 12, 45 ft. below base of ledges.

Land, broken sandstone surface rock and ledges, with general southwesterly and southeasterly exposure and drainage.

Soil, sandstone surface rock and patches of shallow loose sand; 4th rate.

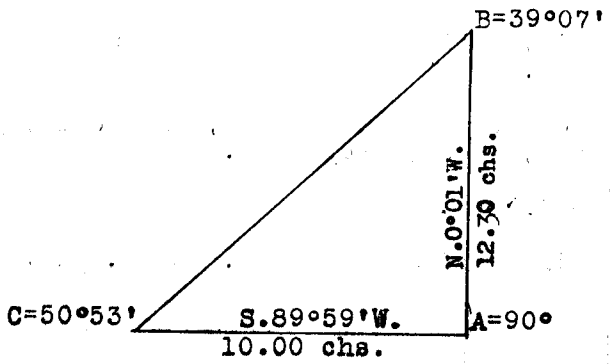
Undergrowth, scattered patches of blackbrush, yellow top, mountain rush, oose, weeds, and grass.

No timber.

Poor grazing land.

N.0°01'W., on random line bet. secs. 1 and 2.

31.90 Base of high SW. breaks of mesa, over which it is impossible to chain. I therefore determine the distance to top of mesa by triangulation as follows. Erect flag A at this point, and flag B on line N.0°01'W. From A, survey base line AC, S.89°59'W., 10.00 chs. dist., and erect flag C. From C, flags A-B subtends an angle of 50°53'. From B, flags A-C subtends an angle of 39°07'. Vertical angle from A to B is +30°41'. All angles checked by repetition and base line double chained.



SUBDIVISION OF T.43 S., R.5 E.

Chains	
	Distance on line 31.90 chs. Distance by triangulation 12.30 chs. Distance to point B of triangulation 44.20 chs.
40.00	Point falls on inaccessible SW. breaks of mesa.
44.20	Point B of triangulation; set temp. witness cor, to the ¼ sec. cor.
80.04	Intersect N. bdy. of Tp., 3 lks W. of cor. of secs. 1, 2, 35, and 36, heretofore described.
	Thence:
	South, on true line bet. secs. 1 and 2.
	Over gently rolling mesa land, along general W. slope, through scattered short undergrowth.
16.00	Rocky draw, 30 ft. deep, drains N.80°W., about 8.00 chs. dist. to rim of mesa, which bears NW. and SE.
35.84	Rim of mesa and top of a vertical sandstone ledge about 200 ft. high, bears N.30°W. and S.30°E., mark a cross on sandstone surface rock, over which:
	Set an iron post, 3 ft. long, 1 in. diam., in a large mound of stone, for witness cor. to the ¼ sec. cor., with brass cap marked
	¼ S 2 | S 1 WC 1934
	Line to the S. of this witness cor. passes over the inaccessible SW. face of broken sandstone ledges and breaks of mesa. Distance determined by triangulation.
40.04	True point for ¼ sec. cor. falls on steep inaccessible SW. face of sandstone ledges and breaks of mesa, where it is impracticable to set a permanent cor.
4[illegible].14	Base of inaccessible sandstone ledges and breaks of mesa, bears N.30°W. and S.30°E., 480 ft. below rim; descend gradually over broken SW. slope, of bench land.
6[illegible].04	The cor. of secs. 1, 2, 11, and 12, 125 ft. below base of ledges.
	Land, rolling mesa, broken bench, sandstone ledges and surface rock, with general southwesterly exposure and drainage.
	Soil, shallow loose sand and sandstone surface rock; 3rd rate.
	Undergrowth, blackbrush, shadscale, yellow top, mountain rush, weeds, and grass.
	No timber.
	Fair grazing land on N. and S. portions.
	From the cor. of secs. 2, 3, 34, and 35, on the S. bdy.

Chains	
	of the Tp., heretofore described.
	N.0°01'W., bet. secs. 34 and 35.
	Ascend gradual SE. slope, over sandstone surface rock.
5.70	Draw, 30 ft. deep, drains SE.
15.30	Top of a sandstone rim, facing S., bears E. and W.; thence over broken sandy bench land, through scattered short undergrowth.
40.00	On sandy general E. slope, 110 ft. above sec. cor.
	Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground, for ¼ sec. cor., with brass cap marked:

¼

S34 | S35

1934

Deposit a sandstone, 8x6x6 ins, marked X, at base of post. No other accessories available.

80.00	On general E. slope of bench land, nearly level with ¼ sec. cor.
	Set an iron post, 3 ft. long, 2 ins. diam., 27 ins. in the ground, for cor. of secs. 26, 27, 34, and 35, with brass cap marked:

T43S R5E

S27 | S26

S34 | S35

1934

Deposit a sandstone, 6x4x3 ins., marked X, at base of post. No other accessories available.

Land, sandy broken bench and sandstone surface rock, with general easterly exposure and drainage.

Soil, deep loose sand and sandstone surface rock; 2nd rate.

Undergrowth, blackbrush, shadscale, mountain rush, oose, yellow top, weeds, and grass.

No timber.

Good grazing land.

East, on random line bet. secs. 26 and 35.

40.00	Set temp. ¼ sec. cor.
78.34	Intersect witness cor. to cor. of secs. 25, 26, 35, and 36, which is West, 1.66 chs. dist., from true point for cor. of said secs.

The course of this line therefore is West, and the distance is 80.00 chs.

Chains	
	Thence:
	West, on true line bet. secs. 26 and 35, [illegible] counted from the true point for cor. of secs. 25, 26, 35, and 36, ascend abrupt W. breaks of Gunsight Canyon.
1.66	The witness cor. to cor. of secs. 25, 26, 35, and 36, heretofore described, on top of W. rim of Gunsight Canyon; ascend abrupt sandy SE. slope, through scattered short undergrowth.
25.00	Top of abrupt ascent and E. rim of bench, 240 ft. above witness cor., bears NE. and SW.; thence over rolling sandy bench land.
40.00	On rolling sandy bench land, nearly level with rim of bench.
	Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground, for ¼ sec. cor., with brass cap marked
	¼ S26 / S35
	1934
	Deposit a sandstone, 4x3x3 ins., marked X, at base of post. No other accessories available.
50.00	Bottom of a wide sandy swale, drains NE.
80.00	The cor. of secs. 26, 27, 34, and 35, nearly level with ¼ sec. cor.
	Land, rolling sandy bench and sandstone surface rock, with general easterly exposure and drainage.
	Soil, deep loose sand and sandstone surface rock; 2nd rate.
	Undergrowth, blackbrush, yellow top, shadscale, mountain rush, oose, weeds, and grass.
	No timber.
	Good grazing land.

	N.0°01'W., bet. secs. 26 and 27.
	Over rolling sandy bench land, through scattered short undergrowth.
9.50	The head of a shallow sandy swale, drains E. about 20.00 chs., thence NE.
20.00	Enter low red and blue colored shale hills, bears NE. and SW.; thence over broken land.
40.00	On gradual N. slope, nearly level with sec. cor.
	Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground, for ¼ sec. cor., with brass cap marked

1934

raise a mound of stone, 2½ ft. base, 2 ft. high, W. of cor.

51.30 Rocky draw, 75 ft. deep, drains NE.

65.40 Rocky draw, heads W. about 8.00 chs. dist., drains E.

80.00 On broken SE. slope, nearly level with ¼ sec. cor.

Set an iron post, 3 ft. long, 2 ins. diam., 20 ins. in the ground to solid rock, with a sandstone, 10x8x8 ins., marked X, deposited at base, and in a mound of stone to top, for cor. of secs. 22, 23, 26, and 27, with brass cap marked

T43S R5E
S22 | S23
S27 | S26
1934

Land, rolling and broken, with general easterly exposure and drainage.

Soil, deep loose sand and shallow red and blue colored shale; 3rd rate. Sandstone and shale formation.

Undergrowth, shadscale, blackbrush, yellow top, mountain rush, sagebrush, ooze, weeds, and grass.

No timber.

Fair grazing land.

East on a random line bet. secs. 23 and 26.

40.00 Set temp. ¼ sec. cor.

79.90 Intersect N. and S. line, 9 lks. N. of cor of secs. 23, 24, 25, and 26.

Thence:

N.89°56'W., on true line bet. secs. 23 and 26.

Over broken bench land, through scattered short undergrowth.

29.90 Top of high butte on sandstone reef, bears North about 30.00 chs. dist.

32.90 East rim of Gunsight Canyon, bears NW., and SW. about 7.00 chs. dist., thence southeasterly; descend abrupt broken SW. slope over sandstone surface rock.

39.95 On steep sandstone surface rock, 75 ft. below rim, on general broken SW. slope.

Set an iron post, 24 ins. long, 1 in. diam., 14 ins. in a hole drilled in solid sandstone, for ¼ sec. cor., with brass cap marked

S23
¼
S26
1934

46.30 Top bottom of Gunsight Canyon, 75 ft. below ¼ sec. cor. drains S.50°E.; ascend abrupt broken general E. slope of sandstone surface rock.

SUBDIVISION OF T. 43 S., R. 5 E.

Chains	
32.00	Top of W. rim of Gunsight Canyon, 150 ft. above bottom, bears NW. and SW.; thence over broken bench land.
66.10	Head of a sandstone gulch, 60 ft. deep, drains SE. about 5.00 chs. dist., thence S.70°E.
70.90	The cor. of secs. 22, 23, 26, and 27, nearly level with the W. rim of Gunsight Canyon.
	Land, broken bench and sandstone surface rock, with general southerly exposure and drainage.
	Soil, shallow loose sand, red and blue colored shale, and sandstone surface rock; 4th rate.
	Undergrowth, blackbrush, shadscale, mountain rush, oose, sagebrush, weeds, and grass.
	No timber.
	Poor grazing land.

	N.0°01'W., bet. secs. 22 and 23.
	Over broken bench land, through scattered short undergrowt
6.00	Top of a bare sandstone dome, about 75 ft. high, bears West, 4.60 chs. dist.,
12.00	East base of same dome, bears NW. and SW.
15.70	South rim of Gunsight Canyon, bears NW. and SE.; descend over broken NE. slope of small ledges and sandstone surface rock.
19.75	On the S. side of bottom of Gunsight Canyon, 80 ft. below sec. cor.
	Set an iron post, 3 ft. long, 1 in. diam., 6 ins. in the ground to solid rock, with a sandstone 36x4x2 ins., marked X, deposited at base, and in a mound of stone to top, for witness cor. to the ¼ sec. cor., with brass cap marked WC ¼ S22 | S23 1934
40.00	True point for ¼ sec. cor. falls in bottom of Gunsight Canyon, at S. end of bend, where it is impracticable to set a permanent cor.
41.00	Bend in bottom of Gunsight Canyon, 15 ft. below witness ¼ sec. cor., drains SE. from NE.; thence along the W. side of bottom of canyon.
44.00	Bottom of Gunsight Canyon, drains SE. about 2.00 chs. dist thence SW.; ascend abrupt SW. slope of broken sandstone surface rock.
47.10	Top of N. rim of Gunsight Canyon, 50 ft. above bottom, bears NW. and SE.; thence over broken bench land.
60.00	The top of a high sandstone butte, bears East about 40.00 chs. dist.

Chains	
80.00	At the base of a high broken sandstone reef, bears NW. and SE.
	Set an iron post, 3 ft. long, 2 ins. diam., 27 ins. in the ground, for cor. of secs. 14, 15, 22, and 23, with brass cap marked

T43S R5E

S15	S14
S22	S23

1934

raise a mound of stone, 2 ft. base, 1 ft. high, W. of cor.
A sandstone butte, bears N.29°E. about 13.00 chs. dist.
Land; broken bench and sandstone surface rock, with general northeasterly and southerly exposure and drainage.

Soil, shallow red sand and shale, and sandstone surface rock; 4th rate.

Undergrowth, blackbrush, shadscale, mountain rush, yellow top, weeds, and grass.

No timber.

Poor grazing land.

S.89°56'E., on random line bet. secs. 14 and 23.

31.40 Set temp witness cor. to the ¼ sec. cor.; the line to the E. of this point passes over inaccessible N. breaks of sandstone reef, over which it is impossible to chain or project line. I therefore offset around the N. end of breaks as follows:

North, 30.00 chs. dist., thence:
S.89°56'E., 24.60 chs. dist., thence:
South, 30.00 chs. dist., to:

56.00 Point on true random line; thence S.89°56'E. on true random line.

80.00 Intersect N. and S. line, 9 lks. S., of cor. of secs. 13, 14, 23, and 24.

Thence:

West, on true line bet. secs. 14 and 23.

Over rolling sandy bench land, through scattered short undergrowth.

24.00 Base of vertical sandstone ledge, 150 ft. high, facing E., bears N. and S.; line to the West of this point passes over inaccessible sandstone ledges and steep surface rock, on N. breaks of a high reef, over which it is impossible to project line or chain. I therefore offset around the N. breaks of reef as follows:

North, 30.00 chs. dist., thence:
West. 24.60 chs. dist., thence:
South, 30.00 chs. dist., to:

48.60 Point on true line; the true point for ¼ sec. cor. falls

Chains	
	on steep N. breaks of reef, where it is impossible to set a permanent cor. At this point, which is West, 8.5 chs. dist., from the true cor. point, and located on top of a vertical sandstone legde, 120 ft. high, facing N., bears NE. and NW., at E. end of a narrow shelf.
	Set an iron post, 24 ins. long, 1 in. diam., 14 ins. in a hole drilled in solid sandstone, for witness cor. to the ¼ sec. cor., with brass cap marked
	¼ S14/S23 WC 1934
	Thence, along a narrow shelf, on N. face of breaks, at the S. end of a large cove,
62.00	Top of bare sandstone reef, 40 ft. above, witness cor., bears NW. and SE.; descend abrupt SW. slope of reef, over nearly inaccessible sandstone ledges and surface rock.
80.00	The cor. of secs. 14, 15, 22, and 23, 420 ft. below top of reef.
	Land, rolling bench and broken sandstone reef, with general northeasterly and southwesterly exposure and drainage.
	Soil, shallow loose sand and sandstone surface rock; 4th rate.
	Undergrowth, blackbrush, shadscale, yellow top, mountain rush, weeds, and grass.
	No timber.
	Poor grazing land.

	N.0°01'W., bet. secs. 14 and 15.
	Line to the N. of cor. of secs. 14, 15, 22, and 23, passes over inaccessible sandstone ledges and surface rock, on broken SW. slope of reef, over which it is impossible to chain. I therefore run on offset and traverse lines as follows:
	West, 24.72 chs. dist., thence: N.20°09'E., 38.81 chs. dist., thence: N.74°30'E., 10.40 chs. dist., to point designated A, thence: N.56°E., 1.60 chs. dist., thence: South, 10 lks., dist., thence West, 1 lk. dist., to:
40.00	Point on true line, at E. edge of Gunsight Pass, which is a narrow pass through high sandstone reef.
	Set an iron post, 3 ft. long, 1 in. diam., 10 ins. in a hole drilled in solid sandstone and in a mound of stone to top, for ¼ sec. cor., with brass cap marked
	¼ S15 | S14 1934

Chains

The center of Gunsight Pass, which bears E. and W., through bare sandstone reef, bears S.74°30'W., 3.00 chs. dist. The line N. of the ¼ sec. cor., passes along the steep N. slope and inaccessible breaks of high broken sandstone reef, over which it is impossible to chain. I therefore return to the point designated A and traverse along the base of high inaccessible sandstone ledges as follows:

N.42°30'E., 29.53 chs. dist., thence:
N.55°E., 31.97 chs. dist., thence:
North, 68 lks. dist., thence:
West, 4.83 chs. dist., thence:
N.46°28'W., 11.32 chs. dist., thence:
N.74°30'W., 8.05 chs. dist., thence:
S.67°30'W., 26.01 chs. dist., to:

80.00 Point on true line, which is on a steep sandy E. slope, North, 2.00 chs. dist., from the base of the inaccessible sandstone reef, which bears N.50°E. and S.50°W.

Set an iron post, 3 ft. long, 2 ins. diam., 27 ins. in the ground, for cor. of secs. 10, 11, 14, and 15, with brass cap marked

T43S R5E	
S10	S11
S15	S14

1934

raise a mound of stone, 2½ ft. base, 2 ft. high, W. of cor.

Land, broken sandstone reef, with general southwesterly and easterly exposure and drainage.

Soil, shallow patches of loose sand and sandstone surface rock; 4th rate.

Undergrowth, very scattered patches of blackbrush, yellow top, mountain rush, weeds, and grass.

No timber.

Poor grazing land.

East, on random line bet. secs. 11 and 14.

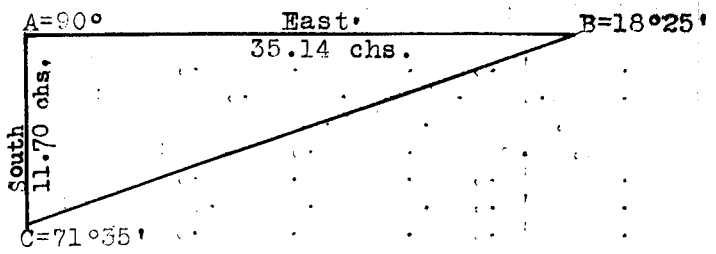
The line to the E. of cor. of secs. 10, 11, 14, and 15, passes over the steep N. breaks and inaccessible sandstone ledges of a high reef, over which it is impossible to chain. I therefore traverse around the N. point of reef, at base of inaccessible sandstone ledges as follows:

N.67°30'E., 26.01 chs. dist., thence:
S.74°30'E., 8.05 chs. dist., thence:
S.46°28'E., 11.32 chs. dist., to:

40.00 Point on true random line; set temp. ¼ sec. cor.; thence East, on true random line.

58.00 Base of inaccessible sandstone ledges and SW. break of a high reef, over which it is impossible to chain, I therefore return to the temp. ¼ sec. cor., and triangulate as follows. Erect flag A at temp. ¼ sec. cor.,

Chains	
	and flag B on line East. From A, survey base line AC, South, 11.70 chs. dist., and erect flag C. From C, flags A-B subtends an angle of 71°35'. From B, flags A-C subtends an angle of 18°25'. Vertical angle from A to B is + 10°. All angles checked by repetition and base line double chained.



Distance on line	40.00 chs.
Distance by triangulation	35.14 chs.
Distance to point B of triangulation	75.14 chs.

75.14	Point B of triangulation, at the witness cor. to cor. of secs. 11, 12, 13, and 14.
80.00	Intersect the cor. point of secs. 11, 12, 13, and 14.
	Thence:
	West, on true line bet. secs. 11 and 14. Ascend abrupt NE. slope of broken sandstone surface rock.
4.86	The witness cor. to cor. of secs. 11, 12, 13, and 14, heretofore described, on top of sharp broken sandstone reef, 100 ft. above true cor. point, bears N.30°W. and S.30°E.; descend abrupt SW. slope of reef, over broken inaccessible sandstone ledges and surface rock, by triangulation.
22.00	Base of inaccessible sandstone reef, bears N.30°W. and S.30°E.; descend gradually over sandy SW. slope, through scattered short undergrowth.
28.00	Bottom of Navajo Canyon, 460 ft. below witness cor, drains S.30°E., in a narrow gorge, with nearly vertical sandstone walls 50 ft. high. Small seeps of alkali water were found along the bottom of canyon, extending S.30°E. about 5.00 chs. dist., and N.30°W, about 5.00 chs. dist.; ascend over general sandy E. slope.
40.00	On gradual sandy E. slope, 60 ft. above bottom of Navajo Canyon.
	Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground, for ¼ sec. cor., with brass cap marked

$$\frac{1}{4}\ \frac{S11}{S14}$$

1934

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

45.00	Base of high inaccessible sandstone ledge and breaks of broken sandstone reef, bears NE. and SW., over which it is impossible to chain. I therefore return to the ¼ sec. cor. and traverse around the N. point of breaks as follows:
	N.46°28'W., 11.32 chs. dist., thence:
	N.74°30'W., 8.05 chs. dist., thence:

Chains	
	S.67°30'W., 26.01 chs. dist., to:
80.00	The cor. of secs. 10, 11, 14, and 15, which is West, 2.00 chs. dist., from the base of high inaccessible sandstone ledges, bears N.65°E. and S.50°W.
	Land, sandstone ledges and surface rock, and rolling sandy bench, with general northeasterly and southerly exposure and drainage.
	Soil, sandstone surface rock and patches of shallow loose sand; 3rd rate.
	Undergrowth, blackbrush, yellow top, mountain rush, shadscale, weeds, and grass.
	No timber.
	Poor grazing land.
	N.0°01'W., bet. secs. 10 and 11.
	Descend gradually along general sandy E. slope, through scattered short undergrowth.
11.00	Sandy draw, 20 ft. deep, drains E.
14.10	Sandy draw, heads at base of sandstone reef, West, 1.50 chs. dist., drains S.85°E.
23.01	The S. point of a high mesa, bears S.27°50'W. about 27.00 chs. dist.
34.00	Sandstone gulch, 100 ft. deep, with scattered growth of ash timber along bottom, drains E.
40.00	On the S. side of a small draw, 160 ft. below sec. cor.
	Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground, for ¼ sec. cor., with brass cap marked
	¼ S10 | S11 1934
	raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.
40.40	Draw, 75 ft. deep, drains S.60°E. Small intermittent seeps found along bottom, extending northwesterly about 10.00 chs. dist., and southeasterly about 12.00 chs. dist., to Navajo Canyon.
59.50	Sandstone gulch, 40 ft. deep, drains NE. about 5.00 chs. dist., thence SE.
63.50	Southeast end of a sandstone slope, from NW.
67.00	Sandstone draw, 40 ft. deep, drains SE.
80.00	On general E. slope of sandstone surface rock, 90 ft. below ¼ sec. cor., mark a cross, over which:
	Set an iron post, 3 ft. long, 2 ins. diam., in a large mound of stone, for cor. of secs. 2, 3, 10, and 11,

Chains	
	with brass cap marked

T43S R5E	
S 3	S 2
S10	S11

1934

Land, rolling and broken, with general easterly exposure and drainage.

Soil, shallow loose sand and sandstone surface rock; 3rd rate.

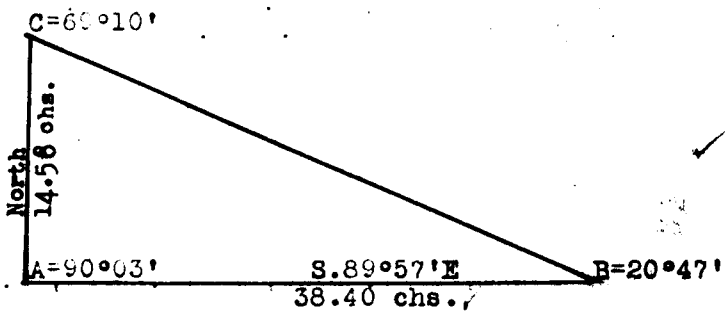
Undergrowth, blackbrush, yellow top, mountain rush, sagebrush, oose, weeds, and grass.

Timber, scattered ash along the bottom of gulches.

Good grazing land.

S.89°57'E., on random line bet. secs. 2 and 11. (Impracticable to run random line East, parallel to the S. bdy. of the sec.)

21.00 Base of high inaccessible sandstone ledges and W. breaks of mesa, over which it is impracticable to chain. I therefore return to the sec. cor. and determine the distance to the top of mesa by triangulation as follows. Erect flag A at the cor. of secs. 2, 3, 10, and 11, and flag B on line S.89°57'E. From A, survey base line AC, North, 14.58 chs. dist., and erect flag C. From C, flags A-B subtends an angle of 69°10'. From B, flags A-C subtends an angle of 20°47'. Vertical angle from A to B is + 11°11'. All angles checked by repetition and base line double chained.



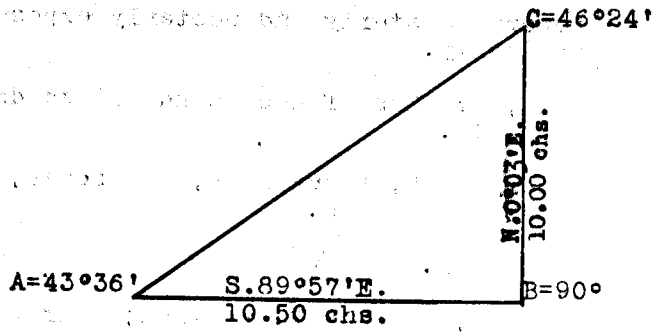
Distance by triangulation 38.40 chs.

21.40 Point B of triangulation; thence S.89°57'E. by direct measurement.

40.00 Set temp. ¼ sec. cor.

41.00 Top of high sandstone ledge and E. breaks of mesa, over which it is impracticable to chain. I therefore determine the distance to the base of breaks, by triangulation, as follows. Erect flag A at this point and flag B on line S.89°57'E. From B, survey base line BC, N.0°03'E., 10.00 chs. dist., and erect flag C. From A, flags B-C subtends an angle of 43°36'. From C, flags A-B subtends an angle of 46°24'. Vertical angle from A to B is - 34°26'. All angles checked by repetition and base line double chained

Chains



Distance on line	41.00 chs.
Distance by triangulation	10.50 chs.
Distance to point B of triangulation	51.50 chs.

51.50 Point B of triangulation; thence S.89°57'E. by direct measurement.

80.04 Intersect the cor. of secs. 1, 2, 11, and 12.

Thence:

N.89°57'W., on true line bet. secs. 2 and 11.

Descend gradual SW. slope of broken land, through scattered short undergrowth.

6.00 Wash, 1 ch. wide, 3 ft. deep, in the bottom of Left Fork of Cane Wash, 50 ft. below sec. cor., drains SE.; ascend gradual E. slope of broken bench land.

28.54 Base of inaccessible sandstone ledges and E. breaks of high mesa, 175 ft. above wash, bears N. and S.; ascend abruptly over inaccessible E. breaks of mesa, by triangulation.

39.04 Top of E. rim of mesa, bears NW. and SE. Rim is a vertical sandstone ledge, 110 ft. high, facing SE.; thence across nearly level narrow top of mesa.

40.02 On top of narrow neck of mesa, 655 ft. above the bottom of Left Fork of Cane Wash. No iron post available for this cor.

Set a hard black sandstone, 10x10x12 ins., 12 ins. in the ground, for ¼ sec. cor., marked ¼ on N. face.

raise a mound of stone, 2½ ft. base, 2 ft. high, N. of cor.

41.64 Top of W. rim of mesa at the top of a vertical sandstone ledge, 200 ft. high, facing W, bears NW. and SE.; descend abruptly over inaccessible sandstone ledges and W. breaks of mesa.

52.24 Base of inaccessible sandstone ledges and W. breaks of mesa, bears NW. and SE.; descend over broken W. slope.

58.50 Bottom of Navajo Canyon, 685 ft. below ¼ sec. cor., drains S. in a narrow gorge, 1.50 chs. wide, with vertical sandstone walls 50 ft. high; ascend gradual broken E. slope, over sandstone surface rock and patches of loose sand.

80.04 The cor. of sec. 2, 3, 10, and 11, 180 ft. above the bottom of Navajo Canyon.

Land, broken bench and sandstone breaks of mesa, with

Chains	
	general easterly and westerly exposure, and drains southerly.
	Soil, patches of deep sand and sandstone surface rock; 3rd rate.
	Undergrowth, blackbrush, shadscale, oose, mountain rush weeds, and grass.
	No timber.
	Grazing, good on E. portion; fair on W. portion.
	N.0°01'W., on random line bet. secs. 2 and 3.
40.00	Set temp. ¼ sec. cor. The line to the N. of this point follows along the inaccessible W. face of sandstone ledges and breaks of high mesa, over which it is impracticable to chain or project line. I therefore offset as follows:
	West, 4.56 chs. dist., thence: N.0°01'W., 40.00 chs. dist., to:
80.00	Intersect the N. bdy. of the Tp., at the witness cor. to cor. of secs. 2, 3, 34, and 35, heretofore described, which is West, 4.56 chs. dist., from the true cor. point of said secs.
	The course of this line therefore is S.0°01'E.
	Thence:
	S.0°01'E., on true line bet. secs. 2 and 3.
	It being impossible to reach the true cor. point of secs. 2, 3, 34, and 35, which falls on the S. face of a sloping sandstone ledge, I begin at the witness cor. to cor. of said secs. and run S.0°01'E. on an offset line of 4.56 chs. West, along the base of inaccessible sandstone ledges and breaks of high mesa, through scattered short undergrowth, as follows:
	S.0°01'E., 40.00 chs. dist., thence: East, 4.56 chs. dist., to:
40.00	Point on true line at base of broken inaccessible sandstone ledges, facing W., bears N.10°W. and S.10°E.; on steep W. slope, 200 ft. below witness cor.
	Set an iron post, 3 ft. long, 1 in. diam., 12 ins. in the ground to solid rock, with a sandstone, 20x10x10 ins. marked X, deposited at base, and in a mound of stone to top, for ¼ sec. cor., with brass cap marked
	¼ S3 | S2 1934
	thence S.0°01'E. on true line; descend gradually over broken rocky SW. slope.
61.90	Bottom of Navajo Canyon, 220 ft. below ¼ sec. cor., which is a narrow gorge, 1.50 chs. wide, with vertical sandstone walls 50 ft. high, drains S.30°E.; ascend

Chains	
	over general E. slope of broken bench land.
80.00	The cor. of secs. 2, 3, 10, and 11, 150 ft. above bottom of Navajo Canyon.
	Land, broken bench and breaks of mesa, with general southerly exposure and drainage.
	Soil, shallow loose sand mixed with rock and sandstone surface rock; 3rd rate.
	Undergrowth, blackbrush, shadscale, mountain rush, ooze, weeds, and grass.
	Fair grazing land.

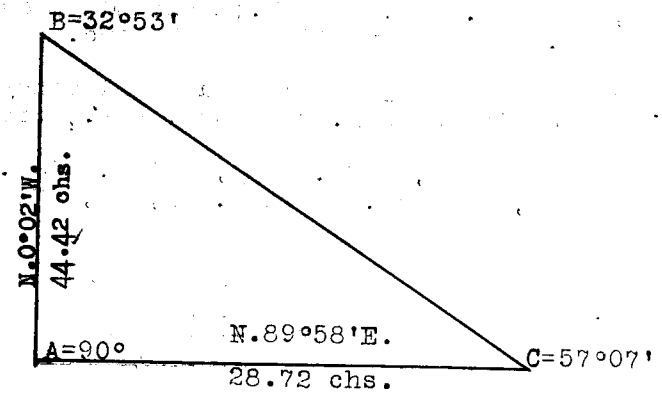
	From the cor. of secs. 3, 4, 33, and 34, on the S. bdy. of the Tp., heretofore described.
	N.0°02'W., bet. secs. 33 and 34.
	Over nearly level bench land, through scattered short undergrowth.
40.00	On nearly level bench.
	Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground, for ¼ sec. cor., with brass cap marked
	¼ S33 | S34 1934
	Deposit a sandstone, 8x4x3 ins., marked X, at base of post. No other accessories available.
54.00	Leave bench land and enter low broken red clay and sandstone hills, and sandstone surface rock; descend gradually over general NE. slope, bears E. and W.
70.50	Draw, 100 ft. deep, drains NE.
72.50	Top of a small red sandstone butte, 50 ft. high, bears West, 4.50 chs. dist.
80.00	On broken NE. slope, 90 ft. below ¼ sec. cor.
	Set an iron post, 3 ft. long, 2 ins. diam., 15 ins. in the ground to solid rock, with a sandstone, 10x10x8 ins., marked X, deposited at base, and in a mound of stone to top, for cor. of secs. 27, 28, 33, and 34, with brass cap marked
	T43S R5E S28 | S27 S33 | S34 1934
	Land, rolling bench and broken low hills, with general southerly and northeasterly exposure and drainage.
	Soil, deep loose sand, 2nd rate; shallow red clay and shale, 4th rate.

SUBDIVISION OF T.43 S., R.5 E.

Chains	
	Undergrowth, blackbrush, mountain rush, shadscale, oose, grass, and weeds.
	Fair grazing land.
	No timber.
	East, on random line bet. secs. 27 and 34.
40.00	Set temp. ¼ sec. cor.
79.90	Intersect N. and S. line, 9 lks. S. of cor. of secs. 26, 27, 34, and 35.
	Thence:
	S.89°56'W., on true line bet. secs. 27 and 34.
	Ascend gradually over sandy rolling bench land, through scattered short undergrowth, on general NE. slope.
35.00	Top of ascent, 50 ft. above cor., bears NW. and SE.; descend gradually over NW. slope of low rolling red clay and sandstone hills.
39.95	On gradual NW. slope, 10 ft. below top of ascent.
	Set an iron post, 3 ft. long, 1' in. diam., 15 ins. in the ground to solid rock, with a sandstone 8x6x6 ins., marked Y, deposited at base, and in a mound of stone to top, for ¼ sec. cor., with brass cap marked ¼ S27/S34 1934
72.60	Draw, 60 ft. below ¼ sec. cor., drains NE.; ascend gradual NE. slope.
79.90	The cor. of secs. 27, 28, 33, and 34, 20 ft. above draw.
	Land, rolling bench and low rolling hills, with general northeasterly exposure and drainage.
	Soil, deep sand and shallow red clay and shale ; 2nd and 4th rates.
	Undergrowth, shadscale, blackbrush, mountain rush, oose, weeds, and grass.
	No timber.
	Fair grazing land.
	N.0°02'W., bet. secs. 27 and 28.
	Ascend gradually over broken bench land, through scattered short undergrowth.
7.00	Base inaccessible sandstone ledges and SE. breaks of high mesa, bears NE. and SW., over which it is impossible to chain. I therefore return to the sec. cor. and

Chains

determine the distance by triangulation as follows. Erect flag A at the cor. of secs. 27, 28, 33, and 34, and flag B on line N.0°02'W. From A, survey base line AC, N89°58'E., 28.72 chs. dist., and erect flag C. From C, flags A-B subtends an angle of 57°07'. From B, flags A-C subtends an angle of 32°53'. Vertical angle from A to B is + 14°35'. All angles checked by repetition and base line double chained.



Distance by triangulation 44.42 chs.

40.00 Point falls on the SE. face of an inaccessible sandstone ledge, where it is impossible to reach the cor. point and set a permanent cor.

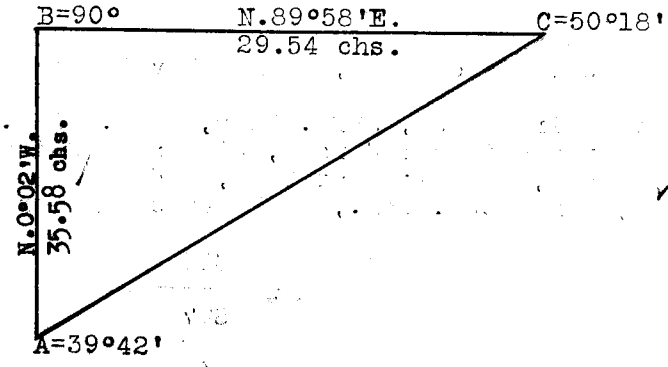
44.42 Point B of triangulation; base of E. point of vertical sandstone ledge, 150 ft. high, and 760 ft. above sec. cor., bears NW. and SW.

Set an iron post, 3 ft. long, 1 in. diam., 12 ins. in a hole drilled in solid sandstone, and in a mound of stone to top, for witness cor. to the ¼ sec. cor., with brass cap marked

¼
S28 | S27
WC

1934

Line to the N. of this cor. descends abruptly over inaccessible sandstone ledges and NE. breaks of mesa, over which it is impossible to chain. I therefore determine the distance by triangulation as follows. Erect flag A at this witness cor. and flag B on line N.0°02'W. From B, survey base line BC, N.89°58'E., 29.54 chs. dist., and erect flag C. From C, flags A-B subtends an angle of 50°18'. From A, flags B-C subtends an angle of 39°42'. Vertical angle from A to B is - 17°37'. All angles checked by repetition and base line double chained.



SUBDIVISION OF T.43 S., R.5 E.

Chains	
	Distance on line 44.42 chs. Distance by triangulation 35.58 chs. Distance to point B of triangulation 80.00 chs. Distance by return measurement 17.00 chs. 63.00 chs
63.00	Distance by return measurement from point B of triangulation; North base of sandstone ledges and breaks of mesa, bears N.75°E. and NW.; descend gradually over sandy NE. slope of rolling bench land.
80.00	Point B of triangulation; in a small sandy draw, 745 ft. below the witness cor. to ¼ sec. cor., drains N.10°W.
	Set an iron post, 3 ft. long, 2 ins. diam., 27 ins. in the ground, for cor. of secs. 21, 22, 27, and 28, with brass cap marked

T43S R5E
S21 | S22
S28 | S27
1934

raise a mound of stone, 2½ ft. base 2 ft. high, W. of cor.

Land, broken and rolling bench, and sandstone breaks of mesa, with general southeasterly and northeasterly exposure and drainage.

Soil, patches of loose sand and sandstone surface rock; 3rd rate.

Undergrowth, blackbrush, shadscale, mountain rush, weeds, and grass.

No timber

Poor grazing land.

N.89°56'E., on random line bet. secs. 22 and 27.

40.00 Set temp. ¼ sec. cor.

79.92 Intersect N. and S. line, 3 lks. N. of cor. of secs. 22, 23, 26, and 27.

Thence:

S.89°57'W., on true line bet. secs. 22 and 27.

Over broken bench land , through scattered short undergrowth.

39.96 On broken bench land, nearly level with sec. cor.

Set an iron post, 3 ft. long, 1 in. diam., 10 ins. in the ground to solid rock, with a sandstone, 12x10x8 ins., marked X, deposited at base, and in a mound of stone to top, for ¼ sec. cor., with brass cap marked

¼ S22 / S27
1934

Chains	
44.50	Shallow draw, drains NE. about 3.00 chs. dist, thence NE. about 5.00 chs. dist., thence NE.
55.00	Small draw, 10 ft. deep, drains N.
66.30	Draw, 50 ft. deep, drains N. about 2.00 chs. dist., to junction with draw draining NE.
70.60	Draw, 60 ft. deep, drains NE.
79.92	The cor. of secs. 21, 22, 27, and 28, nearly level with ¼ sec. cor.
	Land, broken bench, with general northeasterly exposure and drainage.
	Soil, shallow rocky red sand and shale; 4th rate. Sandstone formation.
	Undergrowth, blackbrush, shadscale, yellow top, mountain rush, oose, weeds, and grass.
	No timber.
	Fair grazing land.

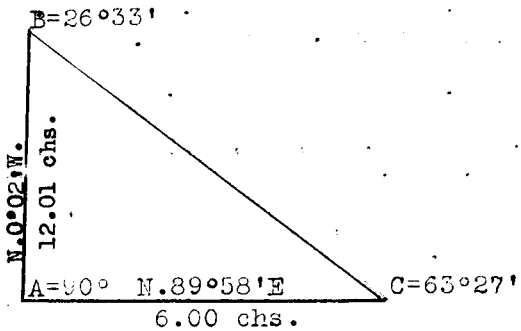
	N.0°02'W., bet. secs. 21 and 22.
	Descend gradually over broken bench land, through scattered short undergrowth.
4.50	Draw, 50 ft. deep, drains NE.
13.20	Draw, 50 ft. deep, drains N.80°E.
29.80	Draw, 60 ft. deep, drains E.
35.00	Leave flag point: Base of sandstone ledges and breaks of high mesa, bears E. and W.; ascend gradually over S. slope of sandstone surface rock.
37.42	On S. slope of sandstone surface rock, at the base of a high sloping sandstone ledge, facing S., 10 ft. above the base of sandstone breaks.
	Set an iron post, 3 ft. long, 1 in. diam., 10 ins. in a hole drilled in solid sandstone, and in a mound of stone to top, for witness cor. to the ¼ sec. cor., with brass cap marked

¼
WC
S21 | S22
1934

40.00	**Point for ¼ sec. cor. falls on the S. face of a nearly vertical sandstone ledge, where it is impracticable to set a permanent cor.**
	The line to the N. of the witness cor. to ¼ sec. cor. secs. 21 and 22, passes over inaccessible sandstone ledges over which it is impracticable to chain. I therefore return to the 35.00 chs. point and determine the distance by triangulation as follows. Erect flag A at the 35.00 chs. point, and flag B on line N.0°02'W.

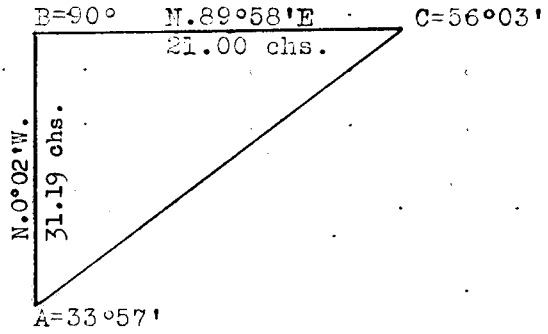
Chains

6.00 chs. dist.,
From A, survey base line AC, N.89°58'E., and erect flag C. From C, flags A-B subtends an angle of 63°27'. From B, flags A-C subtends an angle of 26°33'. Vertical angle from A to B is + 38°12'. All angles checked by repetition and base line double chained.



Distance on line	35.00 chs.
Distance by triangulation	12.01 chs.
Distance to point B of triangulation	47.01 chs.

47.01 Point B of triangulation at the top of E. point of mesa, 630 ft. above the base of sandstone breaks of mesa, bears NW. and S.60°W. The line to the N. of this point descends over inaccessible sandstone ledges and NE. breaks of mesa, over which it is impracticable to chain. I therefore determine the distance by triangulation as follows. Erect flag A at this point and flag B on line N.0°02'W. From B, survey base line BC, N.89°58'E. 21.00 chs. dist., and erect flag C. From A, flags B-C subtend an angle of 33°57'. From C, flags A-B subtend an angle of 56°03'. Vertical angle from A to B is - 15°52'. All angles checked by repetition and base line double chained.



Distance on line	47.01 chs.
Distance by triangulation	31.19 chs.
Distance to point B of triangulation	78.20 chs.

78.20 Point B of triangulation on steep E. slope of breaks of mesa, thence by direct measurement on true line.

80.00 On steep E. slope of breaks of mesa, 485 ft. below E. point of mesa top, mark a cross on sandstone surface rock, over which:

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

T43S R5E	
S16	S15
S21	S22

1934

Land, broken sandy bench and sandstone breaks, with

Chains	
	general easterly exposure and drainage.
	Soil, deep sand and sandstone ledges and surface rock; 2nd rate.
	Undergrowth, blackbrush, shadscale, mountain rush, oose, weeds, and grass.
	No timber.
	Grazing, good on S. portion; none on N. portion.
	N.89°57'E., on random line bet. secs. 15 and 22.
40.00	Set temp. ¼ sec. cor.
79.96	Intersect N. and S. line, 2 lks. N. of cor. of secs. 14, 15, 22, and 23.
	Thence:
	S.89°58'W., on true line bet. secs. 15 and 22.
	Descend gradual W. slope of broken bench land, through scattered short undergrowth.
30.40	Wash, 50 lks. wide, 2 ft. deep, in bottom of Gunsight Canyon, 40 ft. below sec. cor., drains S.; junction of a small canyon from West, at which is located a small seep of good water and two large cottonwood trees, bears N., 2.50 chs. dist.; junction of a canyon from NW., bears N., 4.00 chs. dist.; ascend gradual E. slope of broken bench land.
39.98	On S. slope of red sandstone surface rock, near bottom of bend in draw, drains SE. from S.70°W., 20 ft. above Gunsight Canyon, mark a cross on the solid sandstone, over which:
	Set an iron post, 3 ft. long, 1 in. diam., in a large mound of stone to top, for ¼ sec. cor., with brass cap marked ¼ S15/S22 1934
49.00	Bend in bottom of draw, 30 ft. deep, drains S.80°E. from S.80°W.
56.60	Same draw as at 49.00 chs., 30 ft. deep, drains SE.
70.50	Base of nearly vertical sandstone ledge, bears NE., and S. about 6.00 chs. dist., thence SE.; ascend abruptly over sandstone ledges and breaks of E. slope of mesa.
72.30	Top of sandstone ledge, 140 ft. high, facing E., bears NE. and S.; continue abrupt ascent over broken sandstone.
79.96	The cor. of secs. 15, 16, 21, and 22, 370 ft. above ¼ sec. cor.
	Land, broken bench and sandstone breaks, with general easterly and westerly exposure and drainage.

SUBDIVISION OF T.43 S., R.5 E.

Chains	
	Soil, shallow loose sand and rock, and sandstone surface rock; 3rd rate.
	Undergrowth, blackbrush, shadscale, mountain rush, loose weeds, and grass.
	Timber, very scattered cottonwood trees along the bottom of Gunsight Canyon.
	Good grazing land.
	N.0°02'W., bet. secs. 15 and 16.
	The line N. of the cor. of secs. 15, 16, 21, and 22, passes over sandstone ledges and inaccessible E. breaks of mesa, over which it is impracticable to chain. I therefore run on offset line as follows:
	East, 21.33 chs. dist., thence: N.0°02'W., 21.73 chs. dist., thence: West, 16.00 chs. dist., thence: N.0°02'W.; 8.94 chs. dist., thence: West, 5.33 chs. dist., to 30.67 chs point on true line.
	Approximate distance to topography on true line.
2[illegible].00	Bottom of a narrow gulch, 100 ft. deep, with perpendicular walls; drains E. about 7.00 chs. dist., thence S.60°E., at base of inaccessible breaks of mesa. Gulch has numerous small seeps along the bottom, extending southeasterly about 50.00 chs. dist.; ascend over bench land.
30.67	Point of offset on true line, from which a bare sandstone dome, 50 ft. high, bears S.45°W., 5.00 chs. dist. Erect a flag, thence N.0°02'W., on true line over broken bench land, through scattered short undergrowth.
39.50	Sandstone gulch, 75 ft. deep, drains SE. A small seep of good water in the bottom of this gulch, bears SE., about 45.00 chs. dist.
[illegible]	On NE. side of gulch, near bottom.
	Set an iron post, 3 ft. long, 1 in. diam., 12 ins. in a hole drilled in solid sandstone, and in a mound of stone to top, for ¼ sec. cor., with brass cap marked
	¼ S16 | S15 1934
	Ascend abrupt broken SW. slope.
43.36	Base of inaccessible sandstone ledges and SE. breaks of high point of mesa, bears N.70°E. and S.70°W., over which it is impossible to chain. I therefore offset around the E. point of breaks of mesa as follows:
	East, 21.91 chs. dist., thence: N.0°02'W., 33.80 chs. dist., thence: West, 21.91 chs. dist., to 76.66 chs. point on true line.
	Approximate distance to topography on true line.
55.00	Top of E. point of high mesa, [illegible]

Chains

descend abruptly over inaccessible NE. breaks of mesa.

76.66 Point of offset on true line, thence N.0°02'W., on true line along steep E. face of sloping sandstone ledge.

80.00 On steep E. face of sloping sandstone ledge, 620 ft. below top of E. point of mesa.

Set an iron post, 3 ft. long, 2 ins. diam., 10 ins. in a hole drilled in solid sandstone, and in a mound of stone to top, for cor. of secs. 9, 10, 15, and 16, with brass cap marked

T43S	R5E
S 9	S10
S16	S15

1934

Land, sandstone breaks of mesa and broken bench, with general northeasterly and southeasterly exposure and drainage.

Soil, shallow loose sand, 3rd rate, on central portion; sandstone ledges and surface rock on remainder of mile.

Undergrowth, blackbrush, shadscale, mountain rush, oose, weeds, and grass on central portion; none on remainder of mile.

No timber.

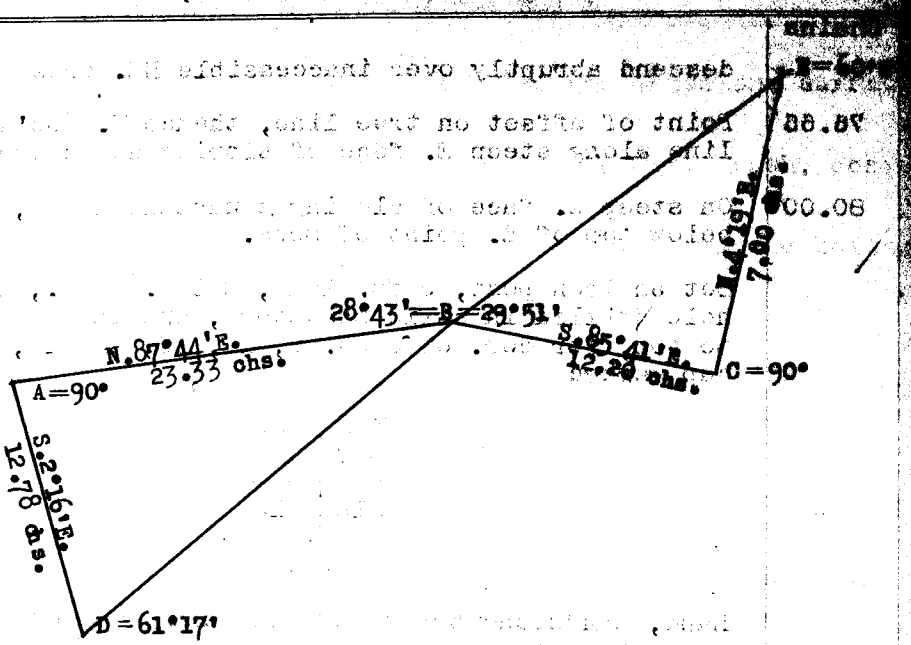
Grazing, good on central portion; none on remainder of mile.

East, on random line bet. secs. 10 and 15. (Impracticable to run N.89°58'E., on true random line, parallel to the S. bdy. of sec. 15.)

40.00 Set temp. ¼ sec. cor.

44.44 The line to the E. of this point passes over inaccessible SW. breaks of high reef, over which it is impossible to chain or project line. I therefore determine the distance to a sharp S. point of a sandstone ledge, on traverse line thence to the cor. of secs. 10, 11, 14, and 15, by triangulation as follows. Erect flag A at this point and designate the S. point of a sandstone ledge as B, which bears N.87°44'E. from flag A. Erect flag C at the cor. of secs. 10, 11, 14, and 15, which bears S.85° 41'E. from B. From A, survey base line AD, S.2°16'E., 12.78 chs. dist., and erect flag D. From C, survey base line CE, N.4°19'E., 7.00 chs. dist., and erect flag E. From E, flags B-C subtend an angle of 60°09'. From B, flag B-C subtend an angle of 29°51'. from D, flags A-B subtend an angle of 61°17'. From B. flags A-D subtend an angle of 28°43'. Vertical angle from A to B is + 22°30'. Vertical angle from B to C is - 35°47'. All angles checked by repetition and base line double chained.

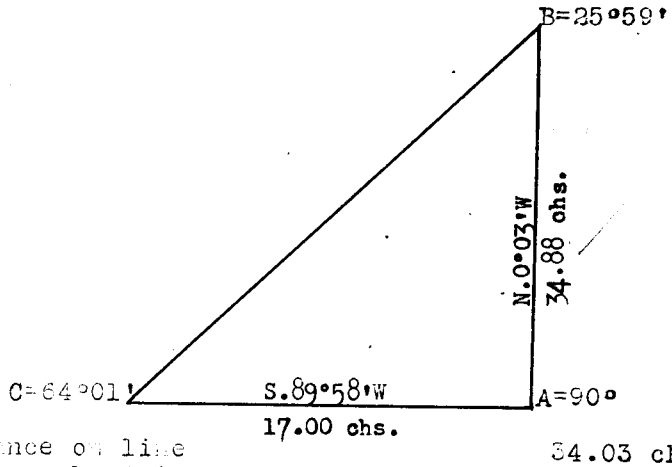
SUBDIVISION OF T. 43 S., R. 5 E.

Chains	
	
	Distance on line, 44.44 chs. Distance by triangulation from A to B is N.87°44'E., 23.33 chs., which is East, 23.31 chs. dist., and North 92 lks. dist. Distance by triangulation from B to C is S.85°41'E., 12.20 chs., which is East, 12.17 chs. dist., and South, 92 lks. dist.
	The course of the line between cors. of secs. 9, 10, 15, and 16, and secs. 10, 11, 14, and 15, therefore is West, and the distance is 79.92 chs.
	Thence:
	West, on true line bet. secs. 10 and 15.
	Ascend abrupt sandy E. slope, through scattered short undergrowth.
2.50	Base of inaccessible sandstone ledges and E. breaks of high reef, bears N.30°E. and S.30°W., over which I am unable to chain or project line, I therefore return to the sec. cor. and run on traverse line by triangulation as follows:
	N.85°41'W., 12.20 chs. dist., thence: S.87°44'W., 23.33 chs. dist., to point A of triangulation on true line.
12.20	Approximate distance on true line to the top of sharp sandstone reef, which cannot be reached, 585 ft. above sec. cor., bears N. and S.; descend abruptly over inaccessible sandstone ledges and SW. breaks of reef.
35.48	Point A of triangulation at the base of inaccessible breaks of reef, bears NW. and SE., 646 ft. below top of reef; descend gradual broken SW. slope, through scattered short undergrowth.
39.95	On the N. slope of a bare sandstone butte, near top, which is 40 ft. high.
	Set an iron post, 3 ft. long, 1 in. diam., 14 ins. in a hole drilled in solid sandstone, and in a mound of stone to top, for ¼ sec. cor., with brass cap marked

SUBDIVISION OF T.43 S., R.5 E.

Chains	
	¼ S10 / S15 1934
47.30	Bottom of Gunsight Canyon, 135 ft. below ¼ sec. cor., drains S.30°E. in a narrow sandstone gorge, with nearly vertical walls 75 ft. high; thence over broken bench land.
55.90	Sandstone gulch, 40 ft. deep, drains N.80°E.
66.90	Same gulch as at 55.90 chs., 40 ft. deep, drains SE.
76.90	Same gulch as at 66.90 chs., drains NE. at base of broken sandstone reef; ascend abrupt E. slope over breaks of reef.
79.92	The cor. of secs. 9, 10, 15, and 16, 40 ft. above bottom of gulch.
	Land, broken bench and sandstone breaks of high reef, with general southeasterly and southwesterly exposure and drainage.
	Soil, shallow patches of loose sand and sandstone surface rock; 3rd rate.
	Undergrowth, blackbrush, shadscale, mountain rush, ooze, weeds, and grass.
	No timber.
	Poor grazing land.
	N.0°02'W., bet. secs. 9 and 10.
	Over broken E. face of sloping sandstone ledges.
2.00	Base of high sandstone reef and surface rock, bears E. and W.; thence over broken sandy hills, sloping E., through scattered short undergrowth.
5.50	Sandy gulch, 75 ft. deep, drains SE. about 5.00 chs. dist., to sandstone gulch, thence NE.
15.00	Enter sandstone surface rock, bears NE. and SW.
20.10	Sandstone draw, 40 ft. deep, drains N.5°E. about 10.00 chs. dist., thence E.
28.90	Sandstone gulch, 50 ft. deep, drains SE. about 1.50 chs. dist. to junction with draw at 20.10 chs.
33.00	Leave surface rock, bears E. and W.; thence over broken sandy land.
34.03	Leave flag point.
40.00	On broken NW. slope.
	Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground, for ¼ sec. cor.; with brass cap marked ¼ S9 | S10 1934

Chains	
	raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.
45.50	Gunsight Canyon, 100 ft. below ¼ sec. cor., drains S.60° canyon is 50 lks. wide in bottom, with nearly vertical sandstone walls 100 ft. high; ascend abruptly over rocky S. breaks of mesa.
61.00	Base of nearly vertical sandstone ledges, 200 ft. high, facing SW., bears NW. and SE, over which I am unable to chain. I therfore return to the 34.03 chs. point and determine the distance to top of mesa by triangulation as follows. Erect flag A at the 34.03 chs point and flag B on line N.0°02'W. From A, survey base line AC, S.89°58'W., 17.00 chs. dist., and erect flag C. From C, flags A-B subtend an angle of 64°01'. From B, flags A-C subtend an angle of 25°59'. Vertical angle from A to B is + 16°. All angles checked by repetition and base line double chained.

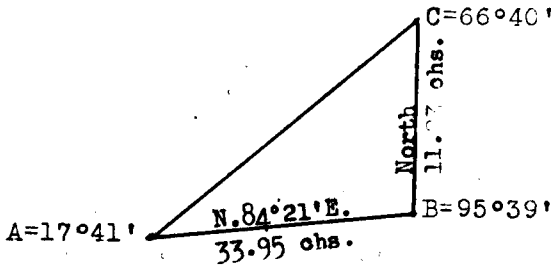


Distance on line	34.03 chs.
Distance by triangulation	34.88 chs.
Distance to point B of triangulation	68.91 chs.

68.91	Point B of triangulation; top of inaccessible SW. breaks and rim of mesa, 660 ft. above ¼ sec. cor., bears N.10°W. and SE.; thence over nearly level top of mesa, near rim, through scattered short undergrowth.
75.00	Rim of mesa, bears N.20°E. and S.20°W. The line N. of this point follows along the inaccessible W. face of sandstone ledges and breaks of mesa, over which it is impracticable to chain. I therefore run on an offset line around breaks as follows: East, 5.00 chs. dist., thence: N.0°02'W., 5.00 chs. dist., thence: West, 3.00 chs. dist., to:
80.00	Point which is East, 2.00 chs. dist., from the true cor. point of secs. 3, 4, 9, and 10. The true cor. point falls on steep inaccessible W. breaks of mesa, where it is impossible to reach the point and set a permanent cor. Therefore at this point, which is East, 2.00 chs. dist., from true cor. point, on W. rim of mesa, bears N. and S., mark a cross on solid sandstone, over which: Set an iron post, 3 ft. long, 2 ins. diam., in a large mound of stone to top, for witness cor. to the cor. of secs. 3, 4, 9, and 10, with brass cap marked

U. S. GOVERNMENT PRINTING OFFICE: 1951 6—8155

	T43S R5E S4 S3 WC S9 S10 1934
	Land, broken sandy hills and sandstone surface rock on S. portion; broken sandstone ledges and breaks of mesa on N.portion.
	Soil, shallow patches of loose sand, and sandstone surface rock and ledges; 4th rate
	Undergrowth, blackbrush, shadscale, mountain rush, oose, weeds, and grass.
	No timber.
	Fair grazing land on S. portion; poor on N. portion.
	East, on random line bet. secs. 3 and 10, with distance counted from the true cor. point of secs. 3, 4, 9, and 10.
40.00	Set temp. ¼ sec. cor.
45.75	The line to the E. of this point passes over the innaccessible E. breaks of mesa, over which it is impracticable to chain or project line. I therefore traverse by triangulation as follows. Erect flag A at this point and flag B,N.84°21'E. From B, survey base line BC, North, 11.23 chs. dist., and erect flag C. From C, flags A-B subtend an angle of 66°40'. From A, flags B-C subtend an angle of 17°41'. Vertical angle from A to B is - 15°29'. All angles checked by repetition and base line double chained.



Distance by triangulation from A to B is, N.84°21'E., 33.95 chs., which is East, 33.78 chs. dist., and North, 3.34 chs. dist.

Thence, offset South, 3.34 chs. dist.; to:

79.53 Point on true random line; thence East, on random line.

79.96 Intersect the cor. of secs. 2, 3, 10, and 11.

Thence:

West, on true line bet. secs. 3 and 10.

Ascend gradual E. slope of broken bench land, through scattered short undergrowth.

0.43 Leave flag point.

20.00 Base of inaccessible sandstone ledges and E. breaks of

Chains	
	high mesa, 100 ft. above sec. cor., bears NW. and SE., over which it is impracticable to chain or project line. I therefore return to 0.43 chs. point and run on offset and traverse line as follows:
	North, 3.34 chs. dist., thence: S.84°21'W., 33.95 chs. dist., by triangulation to 34.21 chs. point on true line, at point A of triangulation.
34.21	Point A of triangulation at top of E. rim of inaccessible E. breaks of mesa, 520 ft. above base of sandstone ledges, bears NW. and SE.; thence over gently rolling top of mesa on true line, through scattered short undergrowth.
39.80	On gentle NE. slope of mesa, nearly level with rim.
	Set an iron post, 3 ft. long, 1 in. diam., 6 ins. in the ground to solid rock, with a sandstone, 8x8x6 ins., marked X, deposited at base, and in a mound of stone to top, for ¼ sec. cor., with brass cap marked
	$\frac{1}{4}\ \frac{S3}{S10}$ 1934
40.87	Wash, 30 lks. wide, 2 ft. deep, drains NE.
61.00	Top of a low sandy ridge, bears N. and S.; descend gradually over gentle W. slope.
77.00	Intersect the witness cor. to the cor. of secs. 3, 4, 9, and 10, which is East, 2.00 chs. dist., from true cor point of said secs.; top of W. rim of mesa, bears N. and S.; descend abruptly over inaccessible W. breaks of mesa.
78.96	The true cor. point of secs. 3, 4, 9, and 10, on W. breaks of mesa, where it is impossible to reach.
	Land, broken bench, sandstone breaks and ledges, and rolling top of mesa, with general easterly and westerly exposure and drainage.
	Soil, shallow loose sand and sandstone surface rock and ledges; 3rd rate.
	Undergrowth, blackbrush, shadscale, mountain rush, greasewood, weeds, and grass.
	No timber.
	Grazing, fair on E. portion; good on mesa top.

N.0°02'W., on random line bet. secs. 3 and 4.

The true point of cor of secs. 3, 4, 9, and 10, falls on inaccessible W. breaks of mesa, where it is impossible reach. I therefore begin at the witness cor. to the cor. of said secs., which is E., 2.00 chs. dist., from the true cor. point, and run on an offset line as follows:

East, 3.00 chs. dist., thence:
N.0°02'W., 18.00 chs. dist., thence:
West, 5.00 chs. dist., to:

Chains	
18.00	Point on true random line, thence N.0°02'W., on true random line.
40.00	Set temp ¼ sec. cor.
80.02	Intersect the N.bdy. of Tp., 7 lks. W. of cor. of secs. 3, 4, 33, 34, heretofore described.
	Thence:
	S.0°01'W., on true line bet. secs. 3 and 4.
	Over nearly level bench land on top of mesa, through scattered short undergrowth.
8.50	Leave bench land, bears E. and W.; descend gradually over rolling mesa land on general S. slope.
40.02	On gradual S. slope, 20 ft. below bench.
	Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground, for ¼ sec. cor., with brass cap marked

¼
S4 | S3
1934

Deposit a sandstone, 8x6x4 ins., marked X, at base of post. No other accessories available.

62.02	West rim of mesa, bears NW. and S.20°E. The line S. of this point follows along the inaccessible W. face of sandstone ledges and breaks of mesa, over which it is impracticable to chain. I therefore offset around the W. rim of breaks as follows:
	East, 5.00 chs. dist., thence: S.0°1'W., 18.00 chs dist., thence: West., 3.00 chs. dist., to:
80.02	The witness cor. to cor. of secs. 3, 4, 33, and 34, which is East, 2.00 chs. dist., from true cor point.
	Land, rolling mesa and sandstone breaks, with general southwesterly exposure and drainage.
	Soil, shallow loose sand and sandstone ledges and surface rock; 3rd rate.
	Undergrowth, blackbrush, greasewood, mountain rush, cacutus, oose, weeds, and grass.
	No timber.
	Good grazing on mesa top.

	From the cor. of secs. 4, 5, 32, and 33, on the S. bdy. of the Tp., heretofore described. N.0°03'W., bet. secs. 32 and 33. Over broken W. slope of sandy bench land, through scattered short undergrowth.
20.00	Shallow sandy swale, drains S.60°W.

Chains	
40.00	On broken SW. slope of bench land.
	Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground, for ¼ sec. cor., with brass cap marked.

¼
S32 | S33
1934

Deposit a sandstone, 8x3x3 ins., marked X, at base of post. No other accessories available.

50.00	Low sandy ridge, bears NE. and SW.; thence over general broken W. slope of bench.
62.50	Shallow sandy swale, heads S.60°E. about 10.00 chs. dist. and drains N.60°W.
80.00	On gentle sandy W. slope of bench.
	Set an iron post, 3 ft. long, 2 ins. diam., 27 ins. in the ground, for cor. of secs. 28, 29, 32, and 33, with brass cap marked

T43S R5E
S29 | S28
S32 | S33
1934

Land, broken sandy bench, with general westerly exposure and drainage.

Soil, deep loose sand; 2nd rate. Sandstone formation.

Undergrowth, yellow top, mountain rush, shadscale, oose, weeds, and grass.

No timber.

Good grazing land.

	East, on random line bet. secs. 28 and 33.
35.00	Leave flag point.
40.00	Set temp. ¼ sec. cor.
43.00	Base of inaccessible sandstone ledges, over which it is impracticable to chain. I therefore offset around the S. point of ledges, from the 35.00 chs. point, as follows:
	South, 22.00 chs. dist., thence: East, 45.08 chs. dist., thence: North, 22.07 chs. dist., to:
80.08	The cor. of secs. 27, 28, 33, and 34.
	The course of the line bet. the cors. of secs. 28, 29, 32, and 33, and secs. 27, 28, 33, and 34, therefore is S.89°57'W., and the distance is 80.08 chs.
	Thence:
	S.89°57'W., on true line bet. secs. 28 and 33.

Chains	
	Over broken bench land, through scattered short undergrowth.
7.00	Base of high vertical sandstone ledges and SE. breaks of S. point of mesa, bears NE. and SW., over which it is impracticable to chain. I therefore return to the sec. cor. and offset around the S. point of breaks of mesa as follows: South, 22.07 chs. dist., thence: S.89°57'W., 45.08 chs. dist., thence: North, 22.07 chs. dist., to true line, thence: N.89°57'E., 5.04 chs. dist., on true line to 40.04 chs. point.
25.00	Approximate distance on true line to the top of S. point of mesa, about 910 ft. above sec. cor., bears NE. and NW.; descend abruptly over inaccessible SW. breaks of mesa.
37.00	Base of a broken sandstone ledge about 500 ft. high, facing NW. and SW., at the E. end of a small cove, bears NW. and SW.; descend gradually along the general top of a sandy ridge, bears W. from base of ledge.
40.04	On the S. slope of a sandy ridge and divide bet. Sunsight Canyon and Cottonwood Wash, near top, bears E. and W., 910 ft. below the top of S. point of mesa. Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground, for ¼ sec. cor., with brass cap stamped ¼ S28 / S33 1934 raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor. Thence from the ¼ sec. cor. S.89°57'W., on true line along the general top of sandy divide ridge, through scattered short undergrowth.
50.10	Leave top of divide ridge, 15 ft. above ¼ sec. cor., bears E. and S., with a spur projecting W.; descend gradual W. slope of sandy bench land.
80.08	The cor. of Secs. 28, 29, 32, and 33, 250 ft. below ridge.

Land, rolling sandy bench and sandstone breaks [illegible], with general southeasterly and westerly exposure and drainage.

Soil, sandstone breaks of mesa and deep loose sand; 2nd rate.

Undergrowth, mountain rush, shadscale, yellow top, [illegible], weeds, and grass.

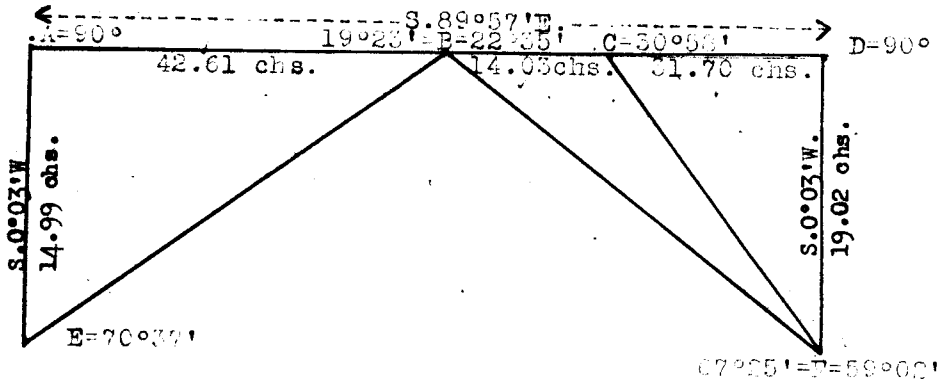
No timber.

Good grazing land on sandy bench.

N.0°03'W., bet. secs. 28 and 29.

Chains	
	Descend gradual NW. slope of rolling bench land, [illegible] scattered short undergrowth.
37.40	Draw, 65 ft. below sec. cor., drains N.60°W.; ascend gradual SW. slope.
40.00	On NW. point of spur, 40 ft. above draw, slopes W.
	Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground, for ¼ sec. cor., with brass cap marked
	¼ S29 | S28 1934
	Deposit a sandstone, 10x10x6 ins., marked X, at base of post. No other suitable accessories available.
	Descend abrupt N. slope.
42.80	Draw, 40 ft. below ¼ sec. cor., drains S.70°W.; ascend gradually over broken SW. slope.
56.71	Leave flag point.
60.71	Base of high sandstone ledges and SW. breaks of mesa, bears N.80°E. and S.80°W., over which it is impracticable to chain. I therefore return to the 56.71 chs. point and offset around the W. point of breaks as follows:
	West, 11.17 chs. dist., thence: N.0°03'W., 23.29 chs. dist., thence: East, 11.17 chs. dist., to:
0.00	True point for cor. of secs. 20, 21, 28, and 29 falls on steep W. sandstone breaks of mesa, where it is impracticable to set a permanent cor. At a point S.89°59'W., 2.41 chs. dist., at the base of W. breaks of mesa, bears N. and SW.
	Set an iron post, 3 ft. long, 1 ins. diam., 27 ins. in the ground, for witness cor. to the cor. of secs. 20, 21, 28, and 29, with brass cap marked
	T43S R5E S20 | S21 WC S29 | S28 1934
	Deposit a sandstone, 10x8x6 ins., marked X, at base of post. No other accessories available.
	Land, broken bench and sandstone ledges and breaks of mesa, with general westerly exposure and drainage.
	Soil, deep loose sand and sandstone ledges and breaks; 3rd rate.
	Undergrowth, blackbrush, shadscale, mountain rush, ooseed, and grass.
	No timber.
	Good grazing land on bench; and none on breaks of mesa.
	S.89°57'E., on random line bet. secs. 21, and 28, with distances counted from the true cor. point of secs. 20,

Chains	
	28, and 29.
	The line to the East of the true cor. point of secs. 20, 21, 28, and 29, ascends abruptly over high inaccessible sandstone ledges and W. breaks of mesa, over which it is impracticable to chain. I therefore determine the distance by triangulation as follows. Erect flag A, N.89°57'W., 8.26 chs. dist., from the true cor. point of secs. 20, 21, 28, and 29. I designate the N. point of a sharp sandstone ledge at the N. end of an inaccessible island mesa as B, which bears S.89°57'E. from A. Erect flags C and D, on line S.89°57'E. from B. From A, survey base line AC, S.0°03'W., 14.99 chs. dist., and erect flag E. From D, survey base line DF, S.0°03'W., 19.02 chs. dist., and erect flag F. From F, flags D-C subtend an angle of 59°02'. From F, flags D-B subtend an angle of 67°25'. From C, flags D-F subtend an angle of 30°58'. From B, flags D-F subtend an angle of 22°35'. From B, flags A-E subtend an angle of 19°23'. From E, flags A-B subtend an angle of 70°37'. Vertical angle from A to B is + 21°. Vertical angle from B to C is - 8°16'. Vertical angle from C to D is - 24°12'. All angles checked by repetition and base lines double chained.



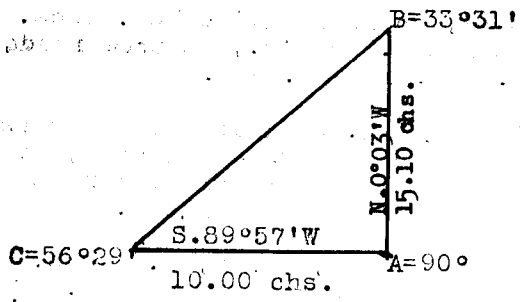
Distance by triangulation from A to B	42.61 chs.
Distance from A to true point for sec. cor.	8.26 chs.
Distance to point B of triangulation	34.35 chs.
Distance by triangulation from B to C	14.03 chs.
Distance to point C of triangulation	48.38 chs.
Distance by triangulation from C to D	31.70 chs.
Distance to point D of triangulation	80.08 chs.

48.38	Set temp. witness ¼ sec. cor.
80.08	Intersect the cor. of secs. 21, 22, 27, and 28.
	Thence:
	N.89°57'W., on true line bet. secs. 21 and 28.
	Ascend gradually over broken sand hills, through scattered short undergrowth.
7.00	Base of inaccessible nearly vertical sandstone ledges, about 200 ft. high, facing NE., and bears NW. and SE. The line to the W. of this point passes over the inaccessible W. and N. breaks of an island mesa, over which it is impossible to chain. Distance is determined by triangulation from the cor. of secs. 21, 22, 27, and 28.
31.70	Point C of triangulation at base of a vertical sandstone ledge, about 100 ft. high, facing N, bears N.80°W. and S.80°E.
	Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground, for witness cor. to the ¼ sec. cor., with brass cap marked

Chains	
	WC ¼ S21/S28 1934
	raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor.
40.04	True point for ¼ sec. corner falls on the N. face of sandstone ledge, where it is impossible to set a permane cor.
45.73	Point B of triangulation at top of N. point of a sharp sandstone ledge, at the N. end of inaccessible island mesa to the S., 1085 ft. above the cor. of secs. 21, 22, 27, and 28; descend abruptly over inaccessible W. breaks of mesa by triangulation.
80.08	True point for cor. of secs. 20, 21, 28, and 29, which is S.89°59'E., 2.41 chs. dist., from the witness cor. to the cor. of said secs.
	Land, broken sandstone E. and W. breaks of mesa, with general northeasterly and westerly exposure and drainage.
	Soil, scattered patches of shallow loose sand and rock; 4th rate. Sandstone formation.
	Undergrowth, scattered patches of blackbrush, shadscale, mountain rush, oose, weeds, and grass.
	No timber.
	Poor grazing land.

	N.0°03'W., bet. secs. 20 and 21.
	The line to the N. of the true cor point of secs. 20, 21, 28, and 29, follows along the inaccessible W. breaks of mesa, over which it is impracticable to chain. I therefore begin at the witness cor. to the cor. of secs. 20, 21, 28, and 29, which is S.89°59'W., 2.41 chs. dist., f the true cor. point, and run on offset line as follows:
	N.0°03'W., 8.00 chs. dist., thence: S.89°59'E., 2.41 chs. dist., to:
8.00	Point on true line at base of inaccessible W. breaks of mesa, bears NE. and SW.; thence N.0°03'W., on true line over broken land, through scattered short undergrowth.
22.03	Base of sandstone ledges and inaccessible high breaks of mesa, bears NW. and SE., over which it is impracticable to chain. I therefore determine the distance to the top of mesa by triangulation as follows. Erect flag A at th point and flag B on line N.0°03'W. From A, survey base line AC, S.89°57'W., 10.00 chs. dist., and erect flag C. From C, flags A-B subtend an angle of 56°29'. From B, fl A-C subtend an angle of 33°31'. Vertical angle from A t B is + 30°13'. All angles checked by repetition and bas line double chained.

Chains

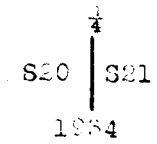


Distance on line	22.03 chs.
Distance by triangulation	15.10 chs.
Distance to point B of triangulation	37.13 chs.

37.13 Point B of triangulation; rim of mesa and top of sandstone ledges and breaks, 580 ft. above base of ledges, bears NE. and S.60°W.; thence over sandstone surface rock on broken top of mesa.

40.00 On sandstone surface rock on broken top of mesa, mark a cross, over which:

Set an iron post, 3 ft. long, 1 in. diam., in a large mound of stone to top, for ¼ sec. cor., with brass cap marked



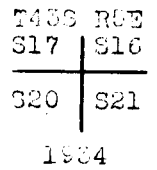
52.50 Leave surface rock and enter broken sandy land, bears NW. and SE.

60.00 Sandy spur, 50 ft. high, projects W.

78.20 Draw, 10 ft. deep, drains W. about 7.00 chs. dist., to rim of mesa.

80.00 On broken top of mesa.

Set an iron post, 3 ft. long, 2 ins. diam., 10 ins. in the ground to solid rock, with a sandstone, 12x8x6 ins., marked X, deposited at base, and in a mound of stone to top, for cor of secs. 16, 17, 20, and 21, with brass cap marked



Land, W. breaks and broken top of mesa, with general southwesterly exposure and drainage.

Soil, shallow patches of loose sand and sandstone ledges and surface rock, 4th rate, on S.portion; shallow loose sand, 3rd rate, on N. portion.

Undergrowth, shadscale, blackbrush, greasewood, mountain rush, oose, weeds, and grass.

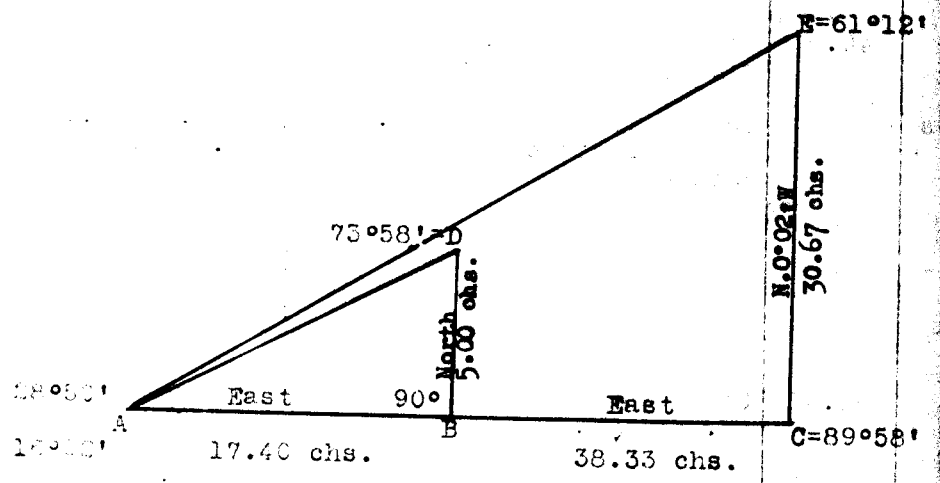
No timber.

Poor grazing land on S. portion; good grazing on N. portion.

Chains

East, on random line bet. secs. 16 and 21.(Impracticable to run S.89°57'E., on true random line, parallel to the S. bdy. of sec. 21).

24.27 The line E. of this point passes over inaccessible sandstone breaks and ledges, over which it is impossible to chain. I therefore determine the distance by triangulation as follows. Erect flag A at this point, and flags B and C on line to the East. From B, survey base line BD, North, 5.00 chs. dist., and erect flag D. From C, which is at the cor. of secs. 15, 16, 21, and 22, survey base line CE, N.0°02'W., 30.67 chs. dist., and erect flag E. From A, flags B-D subtend an angle of 16°02'. From D, flags A-B subtend an angle of 73°58'. From A, flags C-E subtend an angle of 28°50'. From E, flags A-C subtend an angle of 61°12'. Vertical angle from A to B is - 30°30'. All angles checked by repetition and base lines double chained.



Distance on line	24.27 chs.
Distance by triangulation, A to B.	17.40 chs.
Distance to point B of triangulation	41.67 chs.
Distance B to C.	38.33 chs.
Distance to point C of triangulation	80.00 chs.

40.00 Distance determined by return measurement from point B of triangulation:

Set temp. ¼ sec. cor.

[illegible] Point C of triangulation at the cor. of secs. 15, 16, 21, and 22.

Thence:

West, on true line bet. secs. 16 and 21.

Descend abruptly over inaccessible sandstone ledges and E. breaks of mesa by triangulation.

13.4[illegible] Approximate distance to top of ascent on NE. breaks of mesa, 420 ft. above sec. cor., bears N., and S. 2.90 chs. dist., to NE. point of top of mesa; descend abruptly over inaccessible NW. slope and breaks of mesa.

3[illegible].33 Point B of triangulation, thence by direct measurement.

3[illegible].40 Sandstone draw, 40 ft. deep, drains N. about 7.00 chs. dist., thence NE.

Chains	
40.00	On broken E. slope, 580 ft. below top of ascent on NE. breaks of mesa, near top of spur. Set an iron post, 3 ft. long, 1 in. diam., 20 ins. in the ground to solid rock, with a sandstone, 12x10x10 ins. marked X, deposited at base, and in a mound of stone to top, for ¼ sec. cor., with brass cap marked ¼ S16 / S21 1934
40.40	Top of small spur, 40 ft. high, projects N. about 7.00 chs. dist., to end; descend gradual W. slope.
43.00	Bottom of gulch, 40 ft. below spur, drains N.; line to the W. of this point ascends over inaccessible E. breaks of mesa , bears N. and S.; ascend over breaks by triangulation from 38.33 chs. point.
55.73	Point A of triangulation; E. rim of mesa, 605 ft. above gulch, bears N. and S.; thence ascend gradually over broken E. slope of top of mesa, through scattered short undergrowth.
60.40	Top of ascent, 40 ft. above rim, bears N. and S.; thence over rolling top of mesa.
80.00	The cor. of secs. 16, 17, 20, and 21, 25 ft. below top of ascent. Land, E. 55.73 chs., sandstone breaks of mesa, with general northeasterly exposure and drainage; remainder of mile, rolling and broken mesa, with easterly and westerly exposure and drainage. Soil, shallow patches of loose sand and sandstone breaks, 4th rate, on E. portion; shallow loose sand, 3rd rate, on top of mesa. Undergrowth, blackbrush, shadscale, greasewood, mountain rush, oose, weeds, and grass. No timber. Grazing, none on breaks; good on top of mesa. ——————————— N.0°03'W., bet. secs. 16 and 17. Over rolling mesa land, through scattered short undergrowth.
32.50	Bend in rim of mesa, at top of sandstone breaks, facing E., bears NE. and SE.
40.00	On sandstone surface rock on rolling top of mesa, mark a cross, over which: Set an iron post, 3 ft. long, 1 in. diam., in a large mound of stone to top, for ¼ sec. cor., with brass cap marked

Chains

S17 | S16

1934

80.00 On rolling mesa land.

Set an iron post, 3 ft. long, 2 ins. diam., 27 ins. in the ground, for cor. of secs. 8, 9, 16, and 17, with brass cap marked

T43S R5E
S8 | S9
S17 | S16

1934

Deposit a sandstone, 8x8x3 ins., marked X, at base of post. Land, rolling mesa, with general southerly exposure.

Soil, shallow loose sand and sandstone surface rock; 3rd rate.

Undergrowth, blackbrush, shadscale, greasewood, mountain rush, ooze, weeds, and grass.

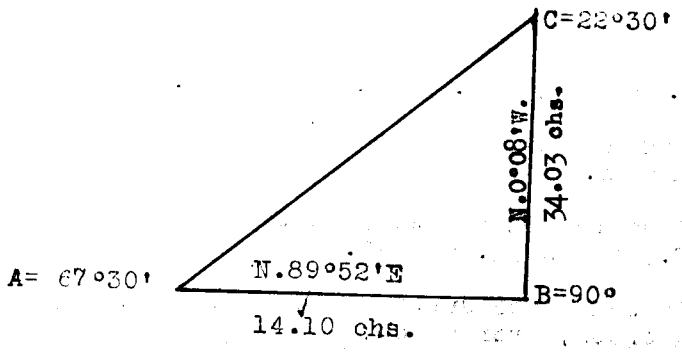
No timber.

Good grazing land.

East, on random line bet. secs. 9 and 16.

40.00 Set temp. ¼ sec. cor.

65.94 The line to the N. of this point descends over high sandstone ledges and inaccessible MT. breaks of mesa, over which it is impracticable to chain. I therefore determine the distance by triangulation as follows. Erect flag A at this point, and flag B at the cor. of secs. 9,10, 15, and 16, which bears N.89°52'E., from A. From B, survey base line BC, N.0°08'W., 34.03 chs. dist., and erect flag C. From C, flags A-B subtend an angle of 22°30'. From A, flags B-C subtend an angle of 67°30'. Vertical angle from A to B is - 33°55'. All angles checked by repetition and base line double chained.



Distance on line	65.94 chs.
Distance by triangulation, N.89°52'E.	14.10 chs.
Distance to point B of triangulation	80.04 chs.

80.04 Point B of triangulation at the cor. of secs. 9, 10, 15, and 16.

SUBDIVISION OF T.43 S., R.5 E.

Chains	
	The course of the line bet. the cors. of secs. 9, 10, 15, and 16, and secs. 8, 9, 16, and 17, therefore is S.89°59'W., and the distance is 80.04 chs.
	Thence:
	S.89°59'W., on true line bet. secs. 9 and 16.
	Ascend abruptly over inaccessible sandstone ledges and NE. breaks of mesa, by triangulation.
14.10	Top of inaccessible NE. breaks and rim of mesa, 625 ft. above sec. cor., bears NW. and SE.; thence over gently rolling land on top of mesa, through scattered short undergrowth.
40.02	On the S. point of a low gravelly hill on top of mesa.
	Set an iron post, 3 ft. long, 1 in diam., 27 ins. in the ground, for ¼ sec. cor., with brass cap marked
	¼ S9 / S16
	1934
	From this cor. the S. rim of mesa, bearing NW. and NE., bears South, 12.50 chs. dist.
59.40	Shallow sandy draw, drains S.20°W. about 3.00 chs. dist., to rim of mesa, bears NE. and SW.
80.04	The cor. of secs. 8, 9, 16, and 17.
	Land, E. 14.10 chs., sandstone breaks, with northeasterly exposure and drainage; remainder of mile, rolling mesa, with general southerly exposure and drainage.
	Soil, shallow loose sand and sandstone breaks; 2nd rate.
	Undergrowth, blackbrush, greasewood, shadscale, mountain rush, oose, weeds, and grass.
	No timber.
	Good grazing land on top of mesa.
	———
	N.0°03'W., bet. secs. 8 and 9.
	Over sandy rolling mesa land, through scattered short undergrowth.
15.00	Low sandy ridge, bears E. and W.
40.00	On gentle N. slope.
	Set an iron post, 3 ft. long, 1 in. diam., 6 ins. in the ground to solid rock, with a sandstone, 10x10x10 ins., marked X, deposited at base, and in a mound of stone to top, for ¼ sec. cor., with brass cap marked
	¼ S8 S9 1934

Chains

61.50 Bottom of a sandy swale, 60 ft. deep, drains N.60°E.

76.50 Low sandy spur, projects NE.

80.00 On sandy N. slope:

Set an iron post, 3 ft. long, 2 ins. diam., 27 ins. in the ground, for cor. of secs. 4, 5, 8, and 9, with brass cap marked

T43S R5E	
S5	S4
S8	S9

1934

Deposit a sandstone, 6x4x2 ins., marked X, at base of post. No other suitable accessories available.

Land, rolling mesa, with general southerly and northeasterly exposure and drainage.

Soil, shallow loose red sand; 2nd rate. Sandstone formation.

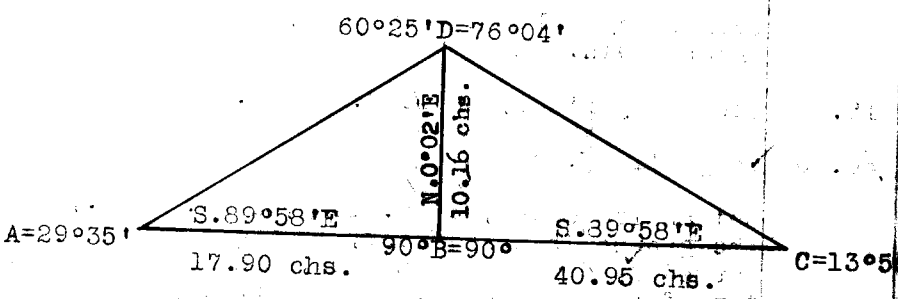
Undergrowth, blackbrush, mountain rush, yellow top, oose, weeds, and grass.

No timber.

Good grazing land.

S.89°58'E., on random line bet. secs. 4 and 9. (Impracticable to run N.89°59'E., on true random line, parallel to the S. bdy. of sec. 9).

23.01 The line to the E. of this point passes over inaccessible sandstone ledges and breaks of Gunsight Canyon, over which it is impracticable to chain. I therefore determine the distance by triangulation as follows. Erect flag A at this point and flags B and C on line S.89°58'E. From B, survey base line BD, N.0°02'E., 10.16 chs. dist., and erect flag D. From A, flags B-D subtend an angle of 29°35'. From D, flags A-B subtend an angle of 60°25'. From D, flags B-C subtend an angle of 76°04'. From C, flags B-D subtend an angle of 13°56'. Vertical angle from A to B is - 23°45'. Vertical angle from B to C is + 11°43'. All angles checked by repetition and base line double chained.



Distance on line	23.01 chs.
Distance by triangulation, A to B	17.90 chs.
Distance to point B of triangulation	40.91 chs.
Distance by triangulation, B to C	40.95 chs.
Distance to point C of triangulation	81.86 chs.

Chains	
40.00	Distance determined by return measurement from point B of triangulation;
	Set temp. ¼ sec. cor.
81.86	Point C of triangulation at the witness cor. to cor. of secs. 3, 4, 9, and 10, which is East, 2.00 chs. dist., from the true cor. point of said secs.
	The course of the line bet. the cor. of secs. 4, 5, 8, and 9, and the true cor. point of secs. 3, 4, 9, and 10, therefore is N.89°58'W. and the distance is 79.86 chs.
	Thence:
	N.89°58'W. on true line bet. secs. 4 and 9 with distance counted from the true cor. point of secs. 3, 4, 9, and 10.
	Descend abruptly over inaccessible sandstone ledges and E. breaks of Gunsight Canyon by triangulation.
11.40	Distance determined by measurement from point B of triangulation; base of inaccessible sandstone ledges and E. breaks of Gunsight Canyon, 560 ft. below the witness cor. to cor. of secs. 3, 4, 9, and 10, bears N.20°E. and S.20°W., descend gradually over broken W. slope of bottom lands of Gunsight Canyon, through scattered short undergrowth, by chaining.
18.70	Bottom of Gunsight Canyon, 120 ft. below base of ledges, drains S. from NW.; junction of a short canyon from N.20°E., bears NW., 2.00 chs. dist.; ascend gradually over broken land.
28.90	Sandstone gulch, 60 ft. deep, drains NE. about 5.00 chs. dist., to bottom of Gunsight Canyon.
38.95	Point B of triangulation; continue by chaining.
39.93	On steep N. slope, 120 ft. above the bottom of Gunsight Canyon.
	Set an iron post, [illegible] ft. long, 1 in. diam., 20 ins. in the ground to solid rock, with a sandstone, 16x12x10 ins., marked X, deposited at base, and in a mound of stone to top, for ¼ sec. cor., with brass cap marked
	S4 / ¼ / S9
	1934
41.70	Sandstone gulch, 40 ft. deep, drains N.80°E.
46.90	Base of inaccessible sandstone ledges and W. breaks of Gunsight Canyon, bears NE. and SW.; ascend abruptly over inaccessible breaks by triangulation.
56.85	Point A of triangulation; ascend gradually over broken SE. slope.
59.40	Rim of mesa and top of W. breaks of Gunsight Canyon, 550 ft. above ¼ sec. cor., bears NE. and SW.; thence over sandy rolling mesa land, through scattered short undergrowth.
67.90	Top of a low sandy spur, projects NE.; descend gradually.

Chains	
79.86	The cor. of secs. 4, 5, 8, and 9.
	Land, E. portion, broken sandstone ledges and bottom lan of Gunsight Canyon; W. portion, rolling mesa. General westerly and easterly exposure.
	Soil, shallow loose sand and sandstone surface rock; 2nd rate.
	Undergrowth, blackbrush, greasewood, shadscale, mountain rush, oose, weeds, and grass.
	No timber.
	Grazing, fair in bottom lands of Gunsight Canyon; good on mesa.
	North, ., on random line bet. secs. 4 and 5.
40.00	Set temp. ¼ sec. cor.
47.50	Rim of mesa and top of inaccessible SW. breaks of a cove in Gunsight Canyon, over which it is impracticable to chain. I therefore offset around the W. breaks of cove as follows.
	West, 15.00 chs. dist., thence: North ., 29.50 chs. dist., thence: East, 15.00 chs. dist., to:
72.00	Point on true random line, thence North on true rando line.
80.00	Intersect the N. bdy. of Tp., 7 lks. E. of cor. of secs. 4, 5, 32, and 33, heretofore described.
	Thence:
	S.0°03'E., on true line bet. secs. 4 and 5.
	Over sandy gently rolling mesa land, through scattered short undergrowth.
7.00	Rim of mesa and top of SW. breaks of a cove in Gunsight Canyon, bears N.30°E. and S.30°W. The line to the S. of this point descends over inaccessible sandstone ledges and breaks, facing SE., over which it is impracticable to chain. I therefore offset around the W. breaks of cove as follows:
	West, 15.00 chs. dist., thence: S.0°03'E., 29.50 chs. dist., thence: East, 15.00 chs. dist., to 36.50 chs. point on true lin
20.00	Approximate distance on true line to bottom of cove in W. breaks of Gunsight Canyon, drains E., and heads W., about 15.00 chs. dist.; ascend inaccessible NE. face of breaks. Cove is about 450 ft. deep.
36.50	Point of offset on true line on rim of mesa, at the top of SW. breaks of cove, bears NW. and SE.; thence S.0°03'E on true line over rolling mesa land.
40.00	On sandy rolling mesa land.
	Set an iron post, 3 ft. long, 1 in. diam., 10 ins. in

SUBDIVISION OF T.43 S., R.5 E.

Chains	
	the ground to solid rock, with a black volcanic stone, 12x12x10 ins., marked X, deposited at base, and in a mound of stone to top, for ¼ sec. cor., with brass cap marked
	¼ S5 | S4 1934
63.50	West end of a cove in W. breaks of Sunsight Canyon, drains E.; rim bears NE. and SE.; ascend gentle sandy N. slope.
80.00	The cor. of secs. 4, 5, 8, and 9, 20 ft. above W. end of cove.
	Land, rolling mesa and sandstone breaks, with general easterly exposure and drainage.
	Soil, shallow loose sand and sandstone ledges and surface rock; 2nd rate.
	Undergrowth, blackbrush, shadscale, greasewood, mountain rush, oose, weeds, and grass.
	No timber.
	Good grazing land on mesa.

	From the cor. of secs. 5, 6, 31, and 32, on the S. bdy. of the Tp., heretofore described.
	N.0°03'W., bet. secs. 31 and 32.
	Over sandy W. slope of rolling bench land.
40.00	On sandy W. slope:
	Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground, for ¼ sec. cor., with brass cap marked
	¼ S31 | S32 1934
	Deposit a sandstone, 10x10x6 ins., marked X, at base of post. No other suitable accessories available.
80.00	On sandy W. slope of rolling bench land.
	Set an iron post, 3 ft. long, 2 ins. diam., 27 ins. in the ground, for cor. of secs. 29, 30, 31, and 32, with brass cap marked
	T43S | R5E S30 | S29 S31 | S32 1934
	Deposit a sandstone, 6x4x3 ins., marked X, at base of post. No other suitable accessories available.

Chains	
	Land, sandy rolling bench, with general westerly exposure and drainage.
	Soil, deep loose sand; 2nd rate. Sandstone formation.
	Undergrowth, yellow top, mountain rush, shadscale, blackbrush, oose, weeds, and grass.
	No timber.
	Good grazing land.
	East, on random line bet. secs. 29 and 32.
40.00	Set temp. ¼ sec. cor.
80.00	Intersect the cor. of secs. 28, 29, 32, and 33.
	Thence:
	West, on true line bet. secs. 29 and 32.
	Descend gradually over sandy W. slope of rolling bench land.
40.00	On rolling bench land, 170 ft. below sec. cor.
	Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground, for ¼ sec. cor., with brass cap marked
	¼ S29 / S32
	1934
	Deposit a sandstone, 8x8x6 ins., marked X, at base of post. No other suitable accessories available.
80.00	The cor. of secs. 29, 30, 31, and 32, 150 ft. below the ¼ sec. cor.
	Land, sandy rolling bench, with general westerly exposure and drainage.
	Soil, deep loose sand; 2nd rate. Sandstone formation.
	Undergrowth, blackbrush, shadscale, mountain rush, oose, weeds, and grass.
	Good grazing land.
	West, on random line bet. secs. 30 and 31.
40.00	Set temp. ¼ sec. cor.
79.85	Intersect the cor. of secs. 25, 30, 31, and 36, on the W. bdy. of the Tp., which is an iron post, 2 ins. diam., set, marked, and witnessed, as described in the official record of the survey of T.43 S., R.4 E., Group 51, Utah.
	Thence:
	East, on true line bet. secs. 30 and 31.
	Over gentle S. slope of broken bench land, through scattered short undergrowth.

Chains	
5.50	Head of a rocky draw, 50 ft. deep, drains S.20°W.
16.40	Top of sandstone ledge, facing SE., 20 ft. high, bears NE. and SW.; descend gradual SE. slope.
26.80	Sandy wash, 40 lks. wide, 2 ft. deep, in draw, 75 ft. below sec. cor., drains S.20°W., 3.00 chs. dist., to Cottowood Wash; thence over broken land.
38.00	Cottonwood Wash, 30 lks. wide, in draw, 40 ft. deep, drains S.20°W., 2.00 chs. dist., thence S.60°W.; ascend over broken land.
38.85	On SW. slope of sandstone surface rock.
	Set an iron post, 24 ins. long, 1 in. diam., 10 ins. in hole drilled in solid sandstone, and in a mound of stone to top, for ¼ sec. cor., with brass cap marked ¼ S30/S31 1934
75.60	Shallow sandy swale, drains S.60°W.
78.85	The cor. of secs. 29, 30, 31, and 32, 40 ft. above ¼ sec. cor.
	Land, rolling and broken bench, with southeasterly and southwesterly exposure and drainage.
	Soil, shallow loose red sand and sandstone surface rock; 3rd rate.
	Undergrowth, shadscale, blackbrush, yellow top, mountain rush, weeds, and grass.
	No timber.
	Fair grazing land.

	N.0°03'W., bet. secs. 29 and 30.
	Over general W. slope of broken bench land, through scattered short undergrowth.
9.00	Enter sandstone surface rock outcroppings, bears N.75°E. and S.75°W.; thence over sandstone surface rock and patches of shallow loose sand.
18.40	Draw, 70 ft. deep, drains W.
28.00	Draw, 40 ft. deep, drains W.
40.00	On sandstone surface rock.
	Set an iron post, 3 ft. long, 1 in. diam., 14 ins. in a hole drilled in solid sandstone, and in a mound of stone to top, for ¼ sec. cor., with brass cap marked ¼ S30 | S29 1934

SUBDIVISION OF T.43 S., R.5 E.

Chains	
	From this cor. a small seep of good water in the bottom of Cottonwood Wash, bears N.80°W., about 12.00 chs. dist
45.00	Small draw, 10 ft. below ¼ sec. cor., drains S.40°E.; leave sandstone outcroppings and enter rolling sandy land bears NW. and SE.; ascend gradual S. slope.
75.00	Spur, 75 ft. above draw, projects S.60°W.; descend gradual N. slope.
78.60	Cottonwood Wash, 25 ft. below spur, drains SW.; ascend gradual SE. slope.
80.00	On gradual SE. slope, near the bottom of Cottonwood Wash.

Set an iron post, 3 ft. long, 2 ins. diam., 27 ins. in the ground, for cor. of secs. 19, 20, 29, and 30, with brass cap marked

T43S R5E	
S19	S20
S30	S29

1934

A cottonwood, 30 ins. diam., bears S.8°45'W., 234 lks., from which dist., marked T43S R5E S30 BT.

No other bearing trees available.

Land, broken bench, with general southwesterly exposure and drainage.

Soil, shallow loose sand and sandstone surface rock; 3rd rate.

Undergrowth, blackbrush, yellow top, shadscale, mountain rush, ooze, weeds, and grass.

Timber, a few scattered cottonwood along Cottonwood Wash.

Fair grazing land.

East, on random line bet. secs. 20 and 29.

40.00	Set temp ¼ sec. cor.
77.67	Fall 2 lks. S. of the witness cor. to cor of secs. 20, 21, 28, and 29, which is S.89°59'W., 2.41 chs. dist., from true cor. point of said secs.

The course of the line bet. the true cor. point of secs. 20, 21, 28, and 29, and the cor. of secs. 19, 20, 29, and 30, therefore is S.89°59'W., and the distance is 80.08 chs.

Thence:

S.89°59'W., on true line bet. secs. 20 and 29, with dist. counted from the true cor point of secs. 20, 21, 28, and 29.

Descend abruptly over inaccessible W. face of sandstone ledges and breaks of mesa.

2.41	The witness cor. to cor. of secs. 20, 21, 28, and 29,

Chains	
	at base of sandstone ledges, bears N. and SW.; descend gradually over W. slope of broken bench land, through scattered short undergrowth.
12.20	Draw, 150 ft. below witness cor., drains S.30°E. about 2.00 chs. dist., thence NW. about 2.00 chs. dist., thence S.40°W., ascend gradually over sandy SE. slope.
31.80	Sandy spur, 25 ft. above draw, projects SW.; descend gradually over NW. slope.
40.04	On NW. slope, 100 ft. below spur.
	Set an iron post, 3 ft. long, 1 in. diam., 20 ins. in the ground to solid rock, with a sandstone, 10x8x4 ins., marked X, deposited at base, and in a mound of stone to top, for ¼ sec. cor., with brass cap marked ¼ S20/S29 1954
40.80	Draw, 10 ft. below ¼ sec. cor., drains S.50°W.; thence along general S. slope of rolling land.
69.10	Draw, 30 ft. deep, drains S., 1.00 ch. dist., thence E., about 3.00 chs. dist., thence S.
74.50	Spur, 30 ft. high, projects S.70°W.; descend gradual NW. slope.
78.00	Cottonwood Wash, 40 ft. below top of spur, drains SW.; ascend gradual SE. slope.
80.08	The cor. of secs. 19, 20, 29, and 30, 10 ft. above Cottonwood Wash.
	Land, broken bench, with general southwesterly exposure and drainage.
	Soil, shallow loose sand; 3rd rate. Sandstone formation.
	Undergrowth, yellow top, blackbrush, mountain rush, oose, weeds, and grass.
	Timber, scattered cottonwood along Cottonwood Wash.
	Good grazing land.
	West, on random line bet. secs. 19 and 30.
40.00	Set temp. ¼ sec. cor.
	The line to the W. of this point passes over inaccessible sandstone ledges and S. breaks of mesa, over which it is impracticable to chain or project line. I therefore run on a traverse line as follows;
	S.67°15'W., 24.85 chs. dist., thence: S.89°52'W., 15.85 chs. dist., thence: North, 9.47 chs. dist.; to:
78.77	The cor. of secs. 19, 24, 25, and 30, on the W. bdy. of the Tp., which is an iron post, 2 ins. diam., set, marked, and witnessed, as described in the official

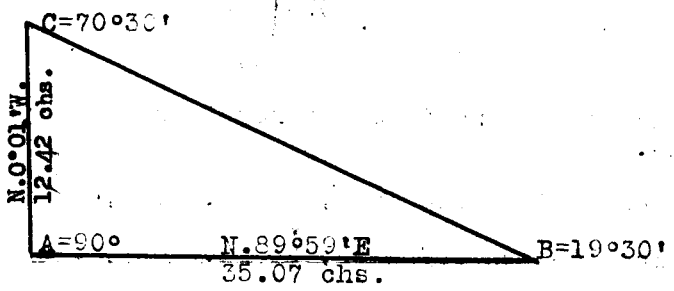
SUBDIVISION OF T.43 S., R.5 E.

Chains	
	record of the survey of T.43 S., R.4 E., Group 51, Utah.
	The course of the line bet. the cors. of secs. 19, 24, 25, and 30, and secs. 19, 20, 29, and 30, therefore is N.89°52'E., and the distance is 78.77 chs.
	Thence:
	N.89°52'E., on true line bet. secs. 19 and 30.
	The line to the E. of this cor. follows along inaccessible sandstone ledges and S. breaks of high mesa, over which it is impracticable to chain or project line. I therefore run on a traverse line around the SE. point of base of breaks as follows:
	South, 9.56 chs. dist., thence: N.89°52'E., 15.85 chs. dist., thence: N. 67°15'E., 24.85 chs. dist., to:
38.77	Point on true line on sandy E. slope.
	Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground, for ¼ sec. cor., with brass cap marked ¼ S19. / S30 1934 Deposit of sandstone, 10x6x6 ins., marked X, at base of post. No other suitable accessories available.
	From this cor. the E. base of an inaccessible sandstone dome, 350 ft. high, and the E. base of breaks of mesa, bearing N. and S., bears S.89°52'W., 12.00 chs. dist.
	From the ¼ sec. cor., N.89°52'E., on true line, descend gradually over sandy E. slope of rolling bench land, through scattered short undergrowth.
78.77	The cor. of secs. 19, 20, 29, and 30, 125 ft. below ¼ sec. cor.
	Land, E. 52.00 chs., rolling sandy bench, with general easterly exposure and drainage; remainder of mile, sandstone breaks of mesa, with general southerly exposure and drainage.
	Soil, deep loose sand, 3rd rate, and sandstone ledges.
	Undergrowth, blackbrush, shadscale, yellow top, mountain rush, ooze, weeds, and grass.
	No timber.
	Good grazing land on bench.
	N.0°03'W., bet. secs. 19 and 20.
	Over broken land, through scattered short undergrowth.
5.90	Cottonwood Wash, 10 ft. deep, drains SE.
14.20	Recross Cottonwood Wash, 10 ft. deep, drains SW.
31.40	Spur, 60 ft. high, projects SW. about 3.00 chs. dist., to end.

SUBDIVISION OF T.43 S., R.5 E.

Chains	
32.50	Recross Cottonwood Wash, 40 ft. belbw top of spur, drains S.40°E.
36.40	Recross Cottonwood Wash, 10 ft. deep, with small seeps of good water in bottom, drains SW.
40.00	On sandy SE slope, 20 ft. above Cottonwood Wash, at the base of sandstone outcroppings, bears N.30°E. and S.30°W.
	Set an iron post, 3 ft. long, 1 in. diam., 20 ins. in the ground to solid rock, with a sandstone, 8x6x3 ins., marked X, deposited at base, and in a mound of stone to top, for ¼ sec. cor., with brass cap marked
	t S19 | S20 1934
	Thence over sandstone outcroppings and patches of loose sand.
44.50	Recross Cottonwood Wash, 25 ft. deep, drains S.25°E.
51.00	Recross Cottonwood Wash, 20 ft. deep, drains S.30°W.
53.40	Draw, 4 ft. deep, drains E. to Cottonwood Wash.
60.00	Spur, 40 ft. high, projects E.
65.00	Recross Cottonwood Wash, 35 ft. deep, drains E. 1.50 chs. dist., thence S.
71.40	Recross Cottonwood Wash, 25 ft. deep, drains S.55°W.; ascend gradual SE. slope.
80.00	On sandy SE. slope, 70 ft. above Cottonwood Wash.
	Set an iron post, 3 ft. long, 2 ins. diam., 27 ins. in the ground, for cor of secs. 17, 18, 19, and 20, with brass cap marked
	T43S R5E S18 | S17 S19 | S20 1934
	Deposit a sandstone, 6x6x6 ins., marked X, at base of post.
	Land, broken bench, with general southerly exposure and drainage.
	Soil, shallow loose sand, and sandstone surface rock; 3rd rate.
	Undergrowth, blackbrush, shadscale, yellow top, oose, mountain rush, weeds, and grass.
	Timber, scattered cottonwood along Cottonwood Wash.
	Good grazing land.

Chains	
	N.89°59'E., on random line bet. secs. 17 and 20.
37.97	Leave flag point.
40.00	Set temp. ¼ sec. cor.
45.00	Base of inaccessible sandstone breaks of mesa, over which it is impossible to chain. I therefore return to the 37.97 chs. point and determine the distance to top of mesa by triangulation as follows. Erect flag A at 37.97 chs. point and flag B on line E. From A, survey base line A-C, N.0°01'W., 12.42 chs. dist., and erect flag C. From C, flags A-B subtend an angle of 70°30'. From B, flags A-C subtend an angle of 19°30'. All angles checked by repetition and base line double chained. Vertical angle from A to B is + 17°.

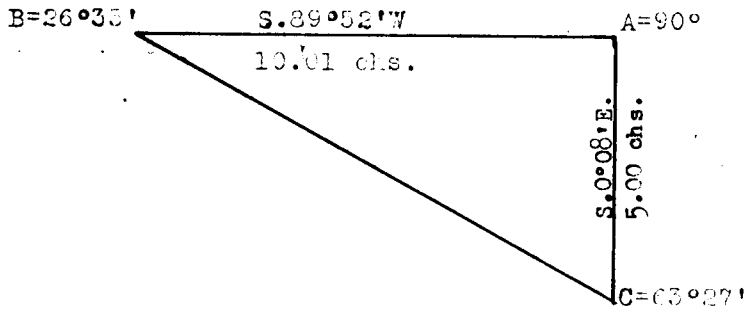


Distance on line	37.97 chs.
Distance by triangulation	35.07 chs.
Distance to point B of triangulation	73.04 chs.

73.04	Point B of triangulation; thence by chaining.
80.12	Intersect N. and S. line, 14 lks. N. of cor. of secs. 16, 17, 20, and 21.
	Thence:
	N.89°55'W., on true line bet. secs. 17 and 20.
	Over rolling mesa land, through scattered short undergrowth.
[illegible].00	West rim of mesa, bears N., and SE. 1.00 ch. dist., thence S.60°W.; descend over inaccessible sandstone ledges and W. breaks of mesa by triangulation.
[illegible].10	Base of inaccessible breaks of mesa, bears NE. and SW.; descend gradually over rocky W. slope of broken land.
[illegible].00	On rocky W. slope, 710 ft. below rim of mesa, at the W. edge of a large sandstone boulder, 10x8x4 ft. above ground.
	Set an iron post, 3 ft. long, 1 in. diam., 6 ins. in the ground to solid rock, with a sandstone, 10x8x6 ins., marked X, deposited at base, and in a mound of stone to top, for ¼ sec. cor., with brass cap marked
	¼ S17/S20 ✓
	1934
57.80	Draw, 150 ft. below ¼ sec. cor., drains S.; descend gradually over sandy E. slope.

SUBDIVISION OF T.43 S., R.5 E.

Chains	
67.60	Top of a sandy rise, 20 ft. above draw, bears N. and S.; descend gradually over broken W. slope.
73.10	Cottonwood Wash, 100 ft. below rise, drains S.20°W.; ascend gradual SE. slope.
80.12	The cor. of secs. 17, 18, 19, and 20, 70 ft. above Cottonwood Wash.
	Land, rolling mesa, sandstone breaks, and broken bench, with general westerly exposue and drainage.
	Soil, shallow loose sand and sandstone surface rock and ledges; 3rd rate.
	Undergrowth, blackbrush, shadscale, yellow top, oose, weeds, and grass.
	No timber.
	Fair grazing land.
	S.89°52'W., on a random line bet. secs. 18 and 19.
29.99	Base of inaccessible E. breaks of mesa, over which it is impracticable to chain. I therefore determine the distance by triangulation as follows. Erect flag A at this point and flag B on line to the W. From A, survey base AC, S.0°08'E., 5.00 chs. dist., and erect flag C. From C, flags A-B subtend an angle of 63°27'. From B, flags A-C subtend an angle of 26°33'. Vertical angle from A to B is + 34°16'. All angles checked by repetition and base line double chained.



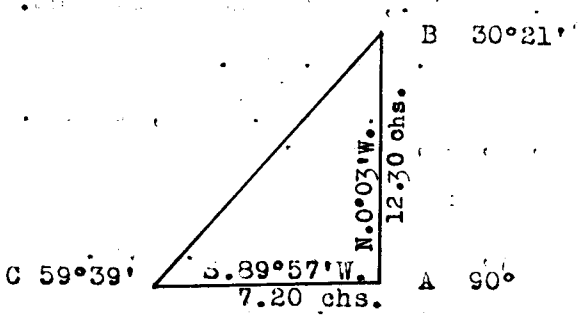
Distance on line	29.99 chs.
Distance by triangulation	10.01 chs.
Distance to point B of triangulation	40.00 chs.

40.00	Set temp ¼ sec. cor. at point B of triangulation.
71.50	Line to the W. of this point descends abruptly over inaccessible W. breaks of mesa, over which it is impracticable to chain. I therefore run on an offset line as follows:
	South, 10.53 chs. dist., thence: S.89°52'W., 7.19 chs. dist., to:
78.69	Intersect the W. bdy. of the Tp., 24 lks. S. of witness cor. to the cor. of secs. 13, 18, 19, and 24, which is South, 10.53 chs. dist., from the true cor. point of said secs. The witness cor. is a sandstone, 18x12x2 ins., set, marked, and witnessed as described in the official record of the survey of T.43 S., R.4 E., Group 51, Utah.

SUBDIVISION OF SECTIONS, R.8 E.

Chains	
	True cor. point is also witnessed by an iron post, 2 ins. diam., set, marked, and witnessed as described in the official record, and which is West, 7.60 chs. dist., from the true cor. point of said secs.
	The course of the line betw. the true cor. point of secs. 13, 18, 19, and 24, and the cor. of secs. 17, 18, 19, and 20, therefore is S.89°58'E., and the distance is 78.69 chs.
	Thence:
	S.89°58'E., on true line bet. secs. 18 and 19.
	As the true point for cor. of secs. 13, 18, 19, and 24, falls on inaccessible W. face of breaks of mesa, where it is impossible to reach the cor. point, I begin at the witness cor. to the cor. of said secs., which is South, 10.53 chs. dist., and run on an offset line as follows:
	S.89°58'E., 7.19 chs. dist., thence: North, 10.53 chs. dist., to:
7.19	Point on true line, at the top of W. breaks and W. rim of mesa, about 500 ft. high, bears N. and S.; thence S.89° 58'E., on true line, over rolling top of mesa, through scattered short undergrowth.
20.70	Top of a low ridge, 60 ft. above rim, bears NE. and S.20°W.; descend gradual E. slope.
35.50	Top of E. rim of mesa, 60 ft. below ridge, bears NE. and S.20°W.; descend abrupt broken E. slope.
38.69	On sloping sandstone surface rock, 60 ft. below rim of mesa, at the top of a nearly vertical inaccessible sandstone ledge, facing E., bears N.20°E. and S.20°W., mark a cross, over which:
	Set an iron post, 3 ft. long, 1 in. diam., in a large mound of stone to top, for ¼ sec. cor., with brass cap marked
	¼ S18 / S19
	1934
	Thence by triangulation over inaccessible E. face of breaks of mesa.
48.70	Base of inaccessible E. breaks of mesa, 450 ft. below ¼ sec. cor., bears NE. and S.20°W.; descend gradually over E. slope of sandy bench land, through scattered short undergrowth.
78.69	The cor. of secs. 17, 18, 19, and 20, 110 ft. below the base of E. breaks of mesa.
	Land, sandstone breaks, rolling mesa, and bench, with general easterly and westerly exposure and drainage.
	Soil, deep and shallow loose sand, and sandstone ledges; 3rd rate.
	Undergrowth, blackbrush, mountain rush, shadscale, cose, yellow top, weeds, and grass.
	No timber.
	Good grazing land on mesa and bench.

Chains	
	N.0°03'W., bet. secs. 17 and 18.
	Ascend gradually over SE. slope of sandy bench land, through scattered short undergrowth.
29.29	Base of inaccessible SE. breaks of mesa, 75 ft. above sec. cor., bears N.80°E., and S.80°W. The line to the N. of this point ascends over inaccessible sandstone ledges and breaks, facing SE., over which it is impracticable to chain. I therefore determine the distance by triangulation as follows. Erect flag A at this point and flag B on line to the N. From A, survey base line AC, S.89°57'W., 7.20 chs. dist., and erect flag C. From C, flags A-B subtend an angle of 59°39'. From B, flags A-C subtend an angle of 30°21'. Vertical angle from A to B is + 30°17'. All angles checked by repetition and base line double chained.



Distance on line	29.29 chs.
Distance by triangulation	12.30 chs.
Distance to point B of triangulation	41.59 chs.

40.00	True point for ¼ sec. cor. falls on inaccessible SE. face of a sandstone ledge, where it is impossible to reach the point and set a permanent cor.
41.59	Point B. of triangulation at the top of a vertical sandstone ledge, 150 ft. high, facing SE., bears N.80°E. and S.60°W., 470 ft. above base of breaks of mesa; mark a cross on solid sandstone over which:
	Set an iron post, 3 ft. long, 1 in. diam., in a large mound of stone to top, for witness cor. to the ¼ sec. cor. with brass cap marked

¼
S18 | S17
W | C
1934

	Ascend abruptly over broken sandstone ledges.
44.00	Rim of mesa, 75 ft. above witness cor., bears N.60°E. and S.60°W.; thence over rolling sandy mesa land.
48.00	Top of a low sandy ridge, bears E. and W.; descend gradually over general W. slope.
80.00	On gentle W. slope of rolling mesa land, 30 ft. below sandy ridge.
	Set an iron post, 3 ft. long, 2 ins. diam., 27 ins. in the ground, for cor. of secs. 7, 8, 17, and 18, with brass cap marked

T43S | R5E
S 7 | S 8
S18 | S17
1934

Chains	
	Deposit a sandstone, 8x6x6 ins., marked X, at base of post. No other suitable accessories available.
	Land, sandy bench, sandstone breaks, and rolling sandy mesa, with general southeasterly and westerly exposure and drainage.
	Soil, deep loose sand and sandstone breaks; 2nd rate.
	No timber.
	Good grazing land.
	S.89°55'E., on a random line bet. secs. 8 and 17.
40.00	Set temp. ¼ sec. cor.
80.00	Intersect N. and S. line, 12 lks. S. of cor. of secs. 8, 9, 16, and 17.
	Thence:
	West, on true line bet. secs. 8 and 17.
	Over general S. slope of rolling mesa land, through scattered short undergrowth.
40.00	Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground, for ¼ sec. cor., with brass cap marked
	S 8 / ¼ / S 17 / 1934
	Deposit a sandstone, 8x6x4 ins., marked X, at base of post. No other suitable accessories available.
55.00	Top of a low sandy ridge, bears NE. and SW.; descend gradual W. slope.
80.00	The cor. of secs. 7, 8, 17, and 18.
	Land, rolling sandy mesa, with general southerly and westerly exposure and drainage.
	Soil, deep loose sand; 2nd rate. Sandstone formation.
	Undergrowth, blackbrush, mountain rush, shadscale, oose greasewood, weeds, and grass.
	No timber.
	Good grazing land.
	N.89°58'W., on a random line bet. secs. 7 and 18.
40.00	Set temp. ¼ sec. cor.

Chains	
75.30	The line to the W. of this point descends abruptly over inaccessible W. face of sandstone ledges and breaks of mesa, over which it is impracticable to chain. I therefore run on an offset line as follows: South 4.90 chs. dist., thence: N.89°58'W., 3.39 chs. dist., to:
78.69	Intersect the W. bdy. of the Tp., 9 lks. N. of witness cor. to the cor. of secs. 7, 12, 13, and 18, which is South, 4.90 chs. dist., from the true cor. point. The witness cor. is an iron post, 2 ins. diam., set, marked, and witnessed as described in the official record of the survey of T.43 S., R.4 E., Group 51, Utah. The course of the line bet. the true cor. point of secs. 7, 12, 13, and 18, and the cor. of secs. 7, 8, 17, and 18, therefore is N.89°58'E., and the distance 78.69 chs. Thence: N.89°58'E., on true line bet. secs. 7 and 18. The true cor. point of secs. 7, 12, 13, and 18, falls on inaccessible W. face of sandstone breaks, where it is impossible to reach therefore I begin at the witness cor. to the cor. of said secs., which is South 4.90 chs. dist. and run on an offset line as follows: N.89°58'E., 3.39 chs. dist., thence: North, 4.90 chs. dist., to:
3.39	Point on true line at top of W. breaks and rim of mesa, about 500 ft. high, bears N. and S., 4.00 chs. dist., thence S.60°W.; thence over rolling sandy mesa land, through scattered short undergrowth, on true line.
35.10	Draw, 10 ft. deep, drains SW. about 10.00 chs. dist. to rim of mesa.
38.69	On sandy mesa land: Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground, for ¼ sec. cor., with brass cap marked ¼ S 7 / S 18 1934 raise a mound of stone, 2½ ft. base, 2 ft. high, N. of cor. From this cor. a large mound of stone erected by stockmen, bears S.10°55'E. For intersecting bearing see the ¼ sec. cor. secs. 7 and 8.
44.20	Draw, 10 ft. deep, drains SW. about 15.00 chs. dist. to rim of mesa, at the E. point of breaks of cove to the W.
78.69	The cor. of secs. 7, 8, 17, and 18. Land, rolling mesa, with general southwesterly exposure and drainage. Soil, deep loose sand; 2nd rate. Sandstone formation.

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Chains	
	Undergrowth, mountain rush, greasewood, shadscale, blackbrush, yellow top, oose, weeds, and grass.
	No timber.
	Good grazing land.
	N.0°03'W., bet. secs. 7 and 8.
	Over rolling sandy mesa land, through scattered short undergrowth.
40.00	On rolling sandy mesa land.
	Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground, for ¼ sec. cor., with brass cap marked
	¼ S 7 | S 8 1934
	Deposit a sandstone, 6x4x3 ins., marked X, at base of post. No other suitable accessories available.
	From this cor. a large mound of stone, erected by stockmen, bears S.18°20'W. For intersecting bearing see the ¼ sec. cor. secs. 7 and 18.
80.00	On gentle W. slope of rolling sandy mesa:
	Set an iron post, 3 ft. long, 2 ins. diam., 27 ins. in the ground, for cor. of secs. 5, 6, 7, and 8, with brass cap marked
	T43S | R5E S 6 | S 5 S 7 | S 8 1934
	Deposit a sandstone, 8x6x6 ins., marked X, at base of post. No other suitable accessories available.
	Land, rolling sandy mesa, with general westerly exposure and drainage.
	Soil, deep loose sand; 2nd rate. Sandstone formation.
	Undergrowth, greasewood, shadscale, blackbrush, mountain rush, yellow top, weeds, and grass.
	No timber.
	Good grazing land.
	East, on a random line bet. secs. 5 and 8.
40.00	Set temp. ¼ sec. cor.
80.06	Intersect N. and S. line, 2 lks. N. of cor. of secs. 4, 5, 8, and 9.

Chains	
	Thence:
	N.89°59'W., on true line bet. secs. 5 and 8.
	Over rolling mesa land, through scattered short undergrowth.
40.03	On gentle E. slope of rolling sandy mesa:
	Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground, for ¼ sec. cor., with brass cap marked:
	¼ S5/S8 1934
	Deposit a sandstone, 10x8x3 ins., marked X, at base of post. No other accessories available.
55.00	Top of a low sandy ridge, bears N. and S.; descend gentle W. slope.
80.06	The cor. of secs. 5, 6, 7, and 8, 20 ft. below ridge.
	Land, rolling mesa, with general northeasterly and westerly exposure and drainage.
	Soil, deep loose sand; 2nd rate. Sandstone formation.
	Undergrowth, blackbrush, shadscale, greasewood, mountain rush, yellow top, oose, weeds, and grass.
	No timber.
	Good grazing land.
	S.89°58'W., on random line bet. secs. 6 and 7.
40.00	Set temp. ¼ sec. cor.
54.50	The line to the W. of this point descends over inaccessible sandstone breaks of mesa, over which it is impracticable to chain. I therefore run on an offset line as follows:
	North, 5.00 chs. dist., thence: S.89°58'W., 24.09 chs. dist., thence: South, 3.71 chs. dist., to:
78.59	The witness cor. to the cor. of secs. 1, 6, 7, and 12, on the W. bdy. of the Tp., which is North, 1.20 chs. dist., from the true cor. point. The witness cor. is an iron post, 2 ins. diam., set, marked, and witnessed as described in the official record of the survey of T.43 S., R.4 E., Group 51, Utah.
	The course of the line bet. the true cor. point of secs. 1, 6, 7, and 12, and the cor. of secs. 5, 6, 7, and 8, therefore is, S.89°58'E., and the distance is 78.59 chs.
	Thence:
	S.89°58'E., on true line bet. secs. 6 and 7
	The true point for cor. of secs. 1, 6, 7, and 12, falls on inaccessible S. face of breaks of mesa, where it is

Chains	
	impossible to reach the cor. point, I therefore begin at the witness cor. to the cor. of said secs., which is, North, 1.20 chs. dist., and run on an offset line as follows:
	North, 3.71 chs. dist,, thence; S.89°58'E., 24.09 chs. dist., thence: South, 4.91 chs. dist., to:
24.09	Point on true line at the top of breaks and rim of mesa, about 500 ft. high, bears S., and N. 2.00 chs. dist., thence W.; thence over rolling sandy mesa land, through scattered short undergrowth, on true line.
27.60	Draw, 15 ft. deep, drains North, 2.00 chs. dist., thence West.
31.60	Same draw as last, 15 ft. deep, drains SW.
70.59	On gentle NW. slope of rolling mesa land.
	Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground, for ¼ sec. cor., with brass cap marked ¼ S6 / S7 1934 raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor.
74.10	Same draw as at 31.60 chs., 15 ft. deep, drains NW., and heads SE. about 5.00 chs. dist.
79.59	The cor. of secs. 5, 6, 7, and 8, nearly level with ¼ sec. cor.
	Land, rolling sandy mesa on E. portion; sandstone ledges and breaks of mesa on W. portion. General westerly exposure and drainage on entire mile.
	Soil, deep loose sand and sandstone ledges; 3rd rate.
	Undergrowth, blackbrush, shadscale, greasewood, mountain rush, oose, weeds, and grass.
	No timber.
	Good grazing land on mesa top.
	N.0°03'W., on random line bet. secs. 5 and 6.
40.00	Set temp. ¼ sec. cor.
80.00	Intersect the N. boundary of the Tp., at the cor. of secs. 5, 6, 31, and 32, heretofore described.
	Thence:
	S.0°03'E., on true line bet. secs. 5 and 6.
	Ascend gradually over gentle rolling N. slope of mesa land, through scattered short undergrowth.

Chains	
35.00	Top of ascent on gentle N. slope, bears NE. and SW.; descend gradual S. slope.
40.00	On gradual S. slope of rolling sandy mesa land.
	Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground, for ¼ sec. cor., with brass cap marked
	¼ S 6 | S 5 1934
	Deposit a sandstone, 6x3x2 ins., marked X, at base of post. No other suitable accessories available.
62.20	Sandstone rim, 10 ft. high, facing SE., bears NE. and SW.
64.80	Draw, 50 ft. deep, heads NE. about 12.00 chs. dist., drains SW.
80.00	The cor. of secs. 5, 6, 7, and 8.
	Land, rolling sandy mesa, with general northerly and southwesterly exposure and drainage.
	Soil, shallow loose sand; 2nd rate. Sandstone formation.
	Undergrowth, shadscale, blackbrush, mountain rush, yellow top, oose, weeds, and grass.
	No timber.
	Good grazing land.

MEANDERS OF RIGHT BANK OF COLORADO RIVER T.43 S., R.5 E.

A portion of the true meander line of the right bank of the Colorado River in T.43 S., R.5 E., follows along a nearly perpendicular S. face of sandstone ledges from 400 to 600 ft. high, where it is impossible to run the meanders on true line, therefore a traverse line is run and the approximate distances therefrom noted to the mean high water (it being impossible to make direct measurement) and from which the approximate true meander line is computed.

From the witness cor. to the meander cor. of fractional secs. 1 and 36, Tps. 43 and 44 S., R.5 E., which is East, 1.50 chs. dist., from the true point for said cor. on the right bank of the Colorado River, heretofore described.

Thence down stream on offset meander line of the right bank of river in secs. 36.

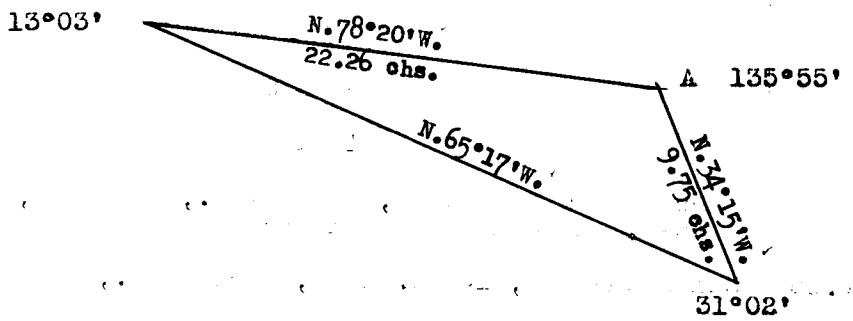
N.34°15'W., 9.75 chs., by direct measurement at end of this course point on the true meander line bears N.78° 20'W., 0.55 chs.

N.78°20'W., 22.26 chs.

This course crosses inaccessible breaks of Gunsight Canyon, over which it is impossible to chain, and the distance was determined by triangulation as follows. Designate the point at the beginning this course as A. From

Chains

A, the witness cor. to the meander cor. of secs. 35 and 36, which is N.0°01'W., 48 lks. dist., from the true point for cor., bears N.78°20'W. From the witness cor. to the meander cor. of secs. 1 and 36, the witness cor. to the meander cor. of secs. 35 and 36, bears N.65°17'W. All bearings checked by deflection and base line double chained.



Distance by triangulation N.78°20'W., 22.26 chs.
At 1.50 chs. on this course I estimate an angle point on the true meander line to be North, 1.50 chs. dist.

Thence:

From the true point for the meander cor. of secs. 1 and 36, downstream on true line on right bank of river in sec. 36, on computed courses and distances.

Along low sandy bank through very dense undergrowth of willows

N.28°59'W., 11.27 chs. At 9.75 chs. (approximate distance) face of nearly vertical sandstone wall, about 400 ft. high, bears N.28°59'W. and S.70°E., thence along face of vertical wall.

N.83°46'W., 20.45 chs. At 17.00 chs. (approximate distance) mouth of Gunsight Canyon, with perpendicular walls about 500 ft. high. Small stream of good water in the bottom, drains from North. At the end of this course is the estimated true point for meander cor. of fractional secs. 35 and 36, which is S.0°01'E., 48 lks. dist., from the witness to the meander cor. of secs. 35 and 36, heretofore described.

Land, on a portion of the first course is loose white sand covered with dense undergrowth of willows. Remainder of meander lines follow along nearly vertical sandstone ledges.

Thence in sec. 35.

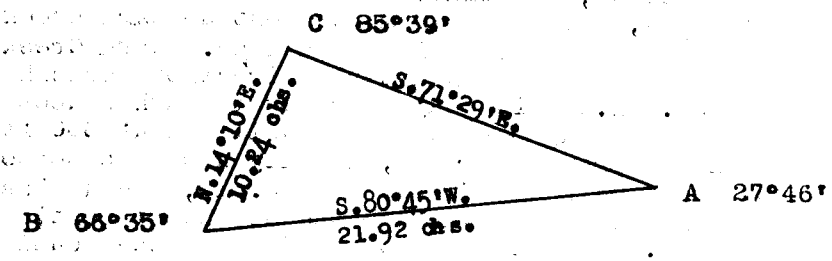
The true meander lines in sec. 35 follow along the face of a perpendicular sandstone wall, over which it is impossible to project a line, I therefore run on offset meander line in this sec. as follows, along the top of rim of Colorado River, which is from 500 to 600 ft. high.

From the witness cor. to the meander cor. of fractional secs. 35 and 36.

S.80°45'W., 21.92 chs. This course follows along top of rim of river, which in places is broken and is impossible to chain. I therefore determine the distance by triangulation as follows. Erect flag A at the beginning of this course and flag B at a point S.80°45'W. from A. From B, survey base line BC, N.14°10'E., 10.24 chs. dist., and

Chains

erect flag C. From C, flag A bears S.71°29'E. All bearings checked by deflection and base line double chained.



Distance by triangulation, S.80°45'W., 21.92 chs.

At the end of this course, angle point on the true meander line is estimated to be South, 1.50 chs. dist.

Thence:

S.57°30'W., 16.67 chs. dist., to point which is West, 2.05 chs. dist. from the witness cor. to the meander cor. of fractional secs. 2 and 35, and West, 2.55 chs. dist., from the estimated true point for said meander cor.

Thence:

From the true point for the meander cor. of fractional secs. 35 and 36, downstream on true line with meanders of the right bank of the river in sec. 35, on computed courses and distances.

Along nearly vertical face of sandstone rim, from 500 to 600 ft. high.

S.78°09'W., 22.11 chs.

S.57°03'W., 13.72 chs. The true point for the meander cor. of fractional secs. 2 and 35.

Land, nearly vertical face of sandstone rim.

No soil, timber, undergrowth, or grazing.

GENERAL DESCRIPTION

The land within the boundaries of Township 43 South, Range 5 East, is very rough and broken, and about one third of the total area is sandstone ledges and surface rock. The general elevation of southern portion of the township is about 3,400 ft. above sea level, and the northern portion is about 850 ft. higher. The southern portion consists of sandstone ledges, surface rock, and broken benches with a soil of deep to shallow red sand and shale, that may be classified as 2nd and 3rd rates. The benches are covered with a scattered undergrowth of blackbrush, shadscale, mountain rush, oose, weeds, and grass, which affords good grazing for stock. The northern portion consists of rolling mesa land, cut by canyons draining southeasterly, and rimmed with inaccessible sandstone ledges and breaks about 500 to 700 ft. high. The soil on the mesa land is a deep loose sand, and red and blue shale, which may be classified as 2nd rate. The vegetation on the mesa land consists of an undergrowth of scattered blackbrush, mountain rush, oose, shadscale,

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yellow top, weeds, and grass, which affords good graziing for stock. The northern portion or mesa land can only be reached from the bench land on the southern portion by stock, at points about 20 miles East up Last Chance Creek, and about 20 miles West up Warm Creek. No water was found on the high mesa land. Warm Creek, now dry, drains in a southeasterly direction through the SW¼ SW¼ sec. 31. This canyon drains through a deep narrow gorge with nearly perpendicular walls about 600 ft. high. A large prominent wash, locally known as Cottonwood Wash, heads near the center of sec. 17, and drains in a southerly direction through the southwest portion of the township. A small seep of good water was found in this wash in the SE¼ NE¼ sec. 30, and also small seeps in the bottom of the wash in the NE¼ SE¼ sec. 19, and NW¼ SW¼ sec. 20. A deep canyon locally known as Gunsight Canyon, drains in a southeasterly direction through the central portion of the township. This canyon enters the township on the north boundary of sec. 4, and drains into the Colorado River near the SW. cor. of fractional sec. 36. A small stream of good water was found in the bottom of this canyon which heads northerly about 60 chains distant from the junction with the Colorado River. The only other water found in the bottom of this canyon was a small seep of good water located in the SW¼ SE¼ sec. 15. Numerous small seeps of good water were found in the bottom of a narrow sandstone gulch in the SW¼ sec. 15. A small seep of good water was found in the bottom of a narrow sandstone gulch in the NE¼ SW¼ sec. 15. A deep narrow canyon, locally known as Navajo Canyon, enters the township on the north boundary of sec. 3, and drains in a southeasterly direction, leaving the township on the east boundary of sec. 24. A small stream of good water heads in the bottom of this canyon in the SW¼ SW¼ sec. 13, and flows in a southeasterly direction through the S½ SW¼ and the SW¼ SE¼ sec. 13, and the N½ NE¼ sec. 24. Small seeps of alkali water were found in the bottom of this canyon in the SW¼ SE¼ sec. 11, and the NW¼ NE¼ sec. 14. Small intermittent seeps of good water were found in the bottom of a draw draining southeasterly into Navajo Canyon, in the SE¼ NE¼ sec. 10 and the NW¼ SW¼ sec. 11. A small stream of good water, 4 lks. wide, 2 ins. deep, heads at a spring located in the NE¼ SE¼ sec. 24, and flows in an easterly direction about 2.00 chains dist., where it leaves the township. The Left Fork of Cane Wash, heads in the NE¼ of sec. 2, and drains in a southeasterly direction, leaving the township at a point on the east boundary, South, 7.10 chs. dist., from the cor. of secs. 7, 12, 13, and 18. Small seeps of good water were found along the bottom of this wash in the S½ SE¼ sec. 12, and the NE¼ NE¼ sec. 13. A small seep of good water was found in the bottom of a sandy draw, drains southeasterly, in the SE¼ NE¼ sec. 12. The Colorado River flows in a westerly direction through the S½ SW¼ sec. 36, and the S½ SE¼ sec. 35. The best and most prominent water in the township is a small spring located in the NE¼ NE¼ sec. 13, and is locally known as Cane Spring.

The extreme west end of Gunsight Bar, on the right bank of the Colorado River, is located in the SE¼ SW¼ sec. 36.

The only timber found in the township is a few scattered cottonwood and ash, found along the bottoms of the canyons and washes. A lone pinon tree was found near the SE. point of the high mesa land, in the SE¼ SW¼ sec. 21. This is the only tree of the coniferous family that could be found within a distance of about 6 miles from this

point.

No defined trails or roads are in the township, but it is possible to take wagons across the township by following the sandy benches and heading the boxed canyons and gulches.

A low narrow sandstone pass in a high sandstone reef, locally known as Gunsight Pass, is located near the ¼ sec. cor. of secs. 14 and 15. This pass is used by stock but is too narrow for wagons.

The nearest settlement to the township is Lee's Ferry, Arizona, which is located on the right bank of the Colorado River, about 45 miles in a southwesterly direction from the township. Marble Canyon, Arizona, is located about 7 miles dist., in a southwesterly direction from Lee's Ferry, and at the time of this survey a Post Office was being maintained at this place.

No indications of mineral, coal, oil, or oil shale were found in the township.

No settlers or improvements were found on the township, and no portions of it are suitable for farming. At the time of the survey the land was being used for a summer and winter grazing range for stock.

In numerous places on this township, the positions for the corners fell on sloping surface rock, where it was impossible to set the regulation 2 inch iron posts for section corners, and the 1 inch iron posts for ¼ section and meander corners. Where the positions for the cor. points fell on these places, the posts were cut off and made to be 2 ft. long, and set in holes drilled 14 inches deep in the solid surface rock, and the 1 inch iron posts were used in lieu of the 2 inch iron posts.

The mean magnetic declination of the township is 16°30'E.

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BOOK A-503

4—680
(August, 1926)

FIELD ASSISTANTS.

NAMES.	CAPACITY.
WARD ELIASON	CHAINMAN
LEN ROPER	CHAINMAN
RT SWAIN	CHAINMAN
ED OVERSON	CHAINMAN
SS A. SLYE	AXMAN
THUR W. WARENSKI	AXMAN
Y R. MORGAN	AXMAN

Volume

#

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CERTIFICATE OF UNITED STATES SURVEYOR

I, Elliot Bird, U. S. Surveyor, hereby certify upon honor that, in pur[illegible] of special instructions received from the District Cadastral Engineer for Utah bearing date of the 11th day of February, 1916, I have well, faithfully, and [illegible] in my own proper person, and in strict conformity with said instructions, the Manual of Surveying Instr[illegible]tions, and the laws of the United States, surveyed all those parts or portions of

[illegible] DIVISIONAL AND [illegible] RIGHT BANK OF THE COLORADO RIVER.

T. [illegible] S., R. [illegible] E.

[illegible] of the Salt Lake Meridian, in the State of Utah, which are represented [illegible] the foregoing field notes as having been executed by me, and under my direction; and that all the corners [illegible] said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instru[illegible]tions, and the special written instructions of the District Cadastral Engineer for Utah and in the specific manner described in the field notes, and that the foregoing are the original field notes [illegible] such survey.

[illegible]
U. S. Surveyor

APPROVAL

Office of U. S. Supervisor of Surveys,

Denver, Colorado MAY 2 - 1935, 19[illegible]

The foregoing field notes of the survey of The North, South, and East Boundaries, [illegible] Divisional Lines of the Right Bank of the Colorado River, T. [illegible] S., R. [illegible] E.

executed by [illegible] Surveyor

under his special instructions dated February 11, 1916, having be[illegible] critically examined, and the necessary corrections and explanations made, the said field notes, and the surve[illegible] they describe, are hereby approved.

[illegible]
U. S. Supervisor of Surve[illegible]

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

[illegible]
U. S. Supervisor of Sur[illegible]

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BOOK A-503 "B"

FIELD NOTES

OF THE SURVEY OF THE

ESTABLISHMENT OF WITNESS CORNER TO MEANDER CORNER ON THE RIGHT BANK OF THE COLORADO RIVER ON THE 146th MILE OF THE UTAH-ARIZONA STATE BOUNDARY: SURVEY OF THE EAST BOUNDARY AND SUBDIVISIONAL LINES AND MEANDERS OF THE RIGHT BANK OF THE COLORADO RIVER IN FRACTIONAL T.44 S., R. 5 E.

Of the Salt Lake *Meridian,*

the State of Utah

EXECUTED BY

Elliot Bird, U. S. Surveyor

the capacity of U. S. Surveyor, under Special Instructions dated February 11, 16, *issued by the District Cadastral Engineer to govern surveys included in Group* 52, *which were approved by the Commissioner of the General Land* ce, April 5, 1916, *and* Supplemental *Assignment Instructions dated* December 1, 1933

Survey commenced February 22, 19 34

Survey completed April 11, 19 34

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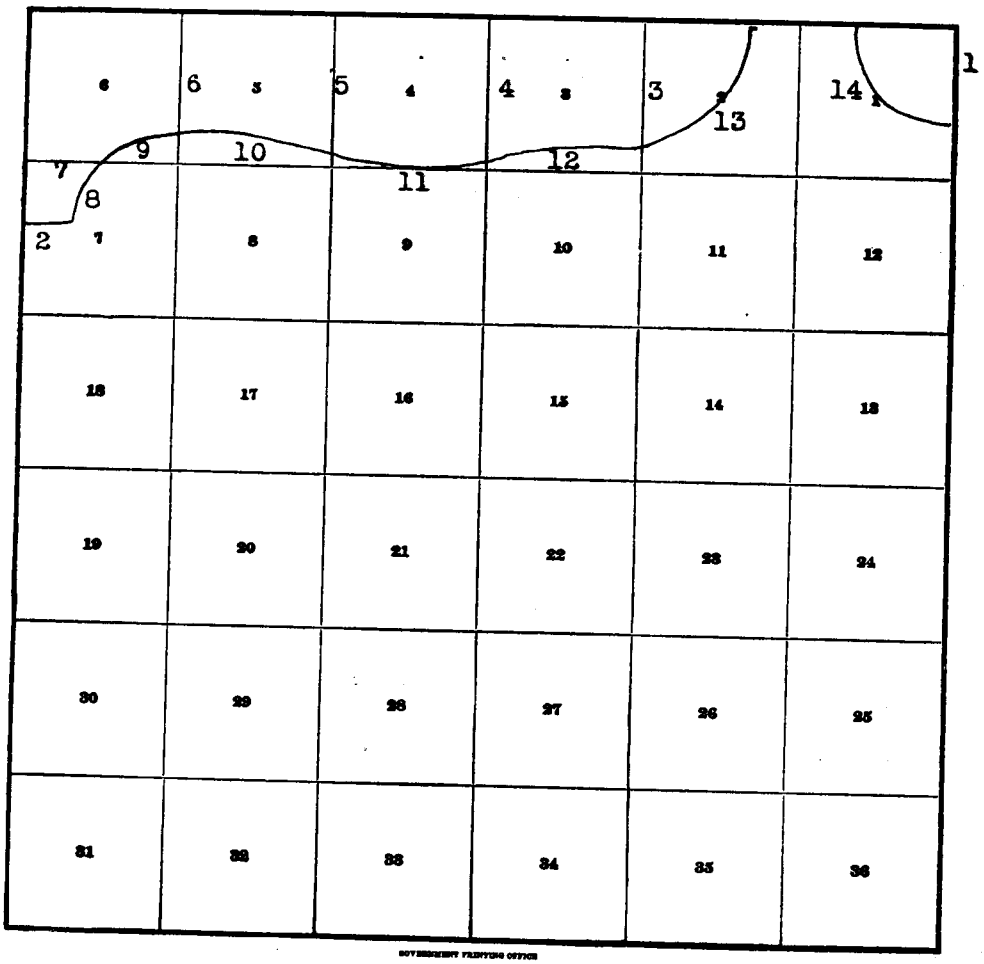
INDEX DIAGRAM.

Township 44 South, *Range* 5 East



GOVERNMENT PRINTING OFFICE

Chains	
	The survey of fractional township 44 south, range 5 east, was commenced February 22, 1934, and was executed with Buff and Buff light mountain transit, No. 18003, used by Elliot Bird, U. S. Surveyor. The instrument is equipped with a Smith solar attachment and full vertical circle. The horizontal limb of the transit is provided with two double verniers placed opposite to each other and reading to single minutes of arc, which is also the least count of the verniers of the latitude and declination arcs, and the vertical circle. The instrument was approved for use on this survey by the district cadastral engineer for Utah, conditional upon satisfactory field tests as stated in supplemental assignment instructions, dated December 1, 1933. The instrument was in good condition at the time of this survey and all adjustments were in good order. The country over which the lines of the survey were extended was all open land and the solar attachment was not used. All azimuths in this record are referred to true meridians determined by observations made upon Polaris during the progress of the survey. The lines were carried forward by double fore and back sights and the bearings determined by deflection angles.
	This township was surveyed in conjunction with township 43 south, range 5 east and an hour angle observation on Polaris at the corner of townships 43 and 44 south, ranges 4 and 5 east, is shown in book "A" of this group.
	Unless otherwise specified all measurements were made with a Lallie steel ribbon tape, 5 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 Lufkin standard steel tape, 1 chain long, and found correct. Measurements were made on the slope, and the vertical angle of each interval was determined by large clinometers in good adjustment; the horizontal equivalents only are entered in the field note record.

	PORTION OF THE EAST BOUNDARY OF T. 44 S., R.5 E.
	From the cor. of Tps. 43 and 44 S., Rs. 5 and 6 E., which is an iron post, 3 ins. diam., set, marked, and witnessed as described in the official record of the survey of T.43 S., R.5 E., Group 52, Utah.
	South, bet. secs. 1 and 6.
	Descend abrupt SE. slope over sandstone outcroppings and patches of coarse gravel and loose sand, through scattered short undergrowth of blackbrush, mountain rush, yellow top weeds, and grass.
30.00	Base of abrupt descent, bears NE. and SW., thence over nearly level sandy bottom land, locally known as Gunsight Bar, through dense willows, greasewood, rabbit brush and salt grass.
35.06	On Gunsight Bar, 485 ft. below the Tp. cor.
	Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground, with a sandstone 10x8x6 ins., marked X, deposited at base, for witness cor. to the meander cor. of secs. 1 and 6, T.44 S., Rs. 5 and 6 E., with brass cap marked

Chains	
	T44S R5E | R6E S 1 | S 6 MC WC 1934
	No other suitable accessories available.
39.81	True point for meander cor. falls on a sandy bank about 6 ft. high, on the right bank of the Colorado River, which is subject to overflow, and where it is impracticable to set a permanent cor. The river bank at this point bears N.50°E. and S.76°W.
	Land, N. 30.00 chs., sandstone outcroppings and breaks of the Colorado River; S. 9.81 chs., sandy river bar.
	Soil, N. 30.00 chs., shallow patches of coarse sand and gravel, and sandstone surface rock, 4th rate; S. 9.81 chs loose sand, 2nd rate.
	Undergrowth, blackbrush, yellow top, mountain rush, willo greasewood, rabbit brush, weeds, and grass.
	No timber.
	Poor grazing land.

	ESTABLISHMENT OF WITNESS COR. TO MEANDER COR. ON THE RIGH BANK OF THE COLORADO RIVER ON THE 146TH MILE OF THE UTAH-ARIZONA STATE BOUNDARY LINE
	The witness cor. to the closing cor. of Tps. 44 S., Rs. 4 and 5 E., which is S.89°43'E., 15 lks. dist. from the true point for said cor., is an iron post, 3 ins. diam., set, marked, and witnessed as described in the official record of the survey of T.44 S., R.4 E., Group 51, Utah.
	From the true point for the closing cor. of Tps. 44 S., Rs. 4 and 5 E.
	S.89°43'E., along the S. bdy. of sec. 7, T.44 S., R.5 E., and on the 146th mile of the Utah-Arizona State Boundary Line; 146th mile post visible (see notes of survey of T.44 S., R.4 E., for determination of course of this mile.
	Over gradual N. slope of broken sandstone surface rock.
0.15	The witness cor. to the closing cor. of Tps. 44 S., Rs. 4 and 5 E.
3.90	On top of right rim of the Colorado River and at the top of a nearly vertical sandstone ledge, facing SE., about 600 ft. high, bears N.28°16'E. and S.28°16'W.
	Set an iron post, 3 ft. long, 1 in. diam., 14 ins. in a hole drilled in solid sandstone and in a mound of stone to top, for witness cor. to the meander cor. of sec. 7, with brass cap marked

ESTABLISHMENT OF WITNESS COR. TO MEANDER COR. ON THE RIGHT BANK OF THE COLORADO RIVER ON THE 146TH MILE OF THE UTAH-ARIZONA STATE BOUNDARY LINE

Chains	
	T44S R5E S7 WC MC A 1934
	From this cor. the 146th mile post on the Utah-Arizona State Boundary Line, which is plainly visible, bears S.89° 43'E.
4.40	The estimated true point for the meander cor. of sec. 7, at the mean high water mark on the right bank of the Colorado River falls on a nearly vertical SE. face of a sandstone wall, about 600 ft. below the witness cor. to the meander cor., where it is impracticable to set a permanent cor.
	Land, broken sandstone surface rock and ledges, on which there is no soil, or vegetation.
	SUBDIVISION OF T.44 S., R.5 E.
	From the cor. of secs. 2, 3, 34, and 35, on N. bdy. of township, which is an iron post, 2 ins. diam., set, marked and witnessed as described in the official record of the survey of T.43 S., R.5 E., of this group.
	S.0°01'E., bet. secs. 2 and 3.
	Descend over broken sandstone surface rock and scattered patches of loose sand, through scattered patches of short undergrowth, on general SE. slope.
20.20	Sandstone gulch, 150 ft. below cor., drains SE. about 3.00 chs. dist., thence S.20°E.; continue gradual descent.
26.80	Sandstone draw, 50 ft. below gulch, drains SE.
36.80	Sandstone gulch, 190 ft. below draw, drains SE.
40.00	On SE. slope of sandstone surface rock, nearly level with sandstone gulch at 36.80 chs., mark a cross, over which:
	Set an iron post, 3 ft. long, 1 in. diam., in a large mound of stone, for ¼ sec. cor., with brass cap marked
	¼ S 3 | S 2 1934
47.54	On top of a sandstone ledge, 120 ft. below ¼ sec. cor., facing S., bears E. and W.
	Set an iron post, 3 ft. long, 1 in. diam., 14 ins. in a hole drilled in solid sandstone, and in a mound of stone to top, for witness cor. to the meander cor. of secs. 2 and 3, with brass cap marked
	T44S | R5E S 3 | S 2 MC WC 1934

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Chains

47.70 Base of nearly vertical sandstone ledge, 60 ft. high, facing S., bears E. and W.; thence over nearly level sandy river bar, on the right side of the Colorado River, through dense undergrowth of willows.

51.64 True point for the meander cor. of secs. 2 and 3, on the right bank of the Colorado River, falls on a sandy bank bears N.45°39'E. and N.72°43'W., which is subject to overflow, and where it is impracticable to set a permanent cor.

Land, broken sandstone surface rock and sandy river bar, with general southeasterly exposure and drainage.

Soil, scattered patches of shallow loose sand, 4th rate; and deep fine sand on river bar, 2nd rate.

Undergrowth, blackbrush, mountain rush, yellow top, willows, weeds, and grass.

No timber.

Poor grazing land.

From the cor. of secs. 3, 4, 33, and 34, on N. bdy. of Tp. which is an iron post, 3 ft. long, 2 ins. diam., set, marked and witnessed as described in the official record of the survey of T.43 S., R.5 E., of this group.

S.0°02'E., bet. secs. 3 and 4.

Over gentle SE. slope of rolling sandy bench land, through scattered short undergrowth.

7.50 Shallow sandy swale, drains E. about 30.00 chs., thence SE.; ascend gradually over gentle N. slope.

29.00 Top of a sloping sandstone ledge at the S. rim of bench, facing SE., 75 ft. high, bears NE. and SW.; thence over lower sandy bench land gently sloping S.

40.00 On sandy lower bench land, 75 ft. below sec. cor.

Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground, with a sandstone, 10x8x6 ins., marked X, deposited at base, for ¼ sec. cor., with brass cap marked

¼

S 4 | S 3

1934

No other suitable accessories available.

52.00 Leave sandy bench land and enter broken sandstone surface rock, bears E. and W.; descend gradually over broken S. slope of sandstone surface rock.

78.26 On top of a nearly vertical sandstone ledge on the right rim of the Colorado River, about 500 ft. high, facing SE., 60 ft. below ¼ sec. cor., bears N.60°E. and S.60°W.

Set an iron post, 2 ft. long, 1 in. diam., 12 ins. in a hole drilled in sandstone surface rock, for witness cor. to the meander cor. of secs. 3 and 4, with brass cap

Chains	
	marked T44S | R5E S 4. | S 3 MC WC 1934
	No rock was available for a mound of stone at this cor.
79.26	The estimated true point for meander cor. of secs. 3 and 4, on the right bank of the Colorado river, falls on the SE. face of a nearly vertical sandstone ledge, where it is impossible to reach the cor. point and set a permanent cor.
	Land, rolling sandy bench and sandstone surface rock and ledges, with general southeasterly and southerly exposure and drainage.
	Soil, shallow coarse sand and sandstone surface rock; 3rd rate.
	Undergrowth, blackbrush, mountain rush, yellow top, oose, weeds, and grass.
	No timber.
	Fair grazing land on N. portion.

	From the cor. of secs. 4, 5, 32, and 33, on N. bdy. of Tp. which is an iron post, 2 ins. diam., set, marked and witnessed as described in the official record of the survey of T.43 S., R.5 E., of this group.
	S.0°03'E., bet. secs. 4 and 5.
	Over sandy bench land with a gentle westerly exposure, through scattered short undergrowth.
12.00	Shallow sandy swale, drains W.
40.00	On gentle sandy NW. slope of bench.
	Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground, with a sandstone 9x7x5 ins., marked X, deposited at base, for ¼ sec. cor., with brass cap marked ¼ S 5 | S 4 1934
	No other suitable accessories available.
46.20	Top of a sloping sandstone ledge, 75 ft. high, facing S., bears W., and E. about 4.00 chs. dist., thence S. about 6.00 chs. dist., thence easterly; descend gradual sandy S. slope of lower bench land.
64.00	Leave sandy bench and begin gradual descent over broken sandstone surface rock on general S. slope, bears E. and W.
78.02	On the top of a nearly vertical sandstone ledge on right

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Chains	
	rim of the Colorado River, 550 ft. high, facing S., 160 ft. below ¼ sec. cor., bears E. and W.
	Set an iron post, 3 ft. long, 1 in. diam., 10 ins. in a hole drilled in solid sandstone, and in a mound of stone to top, for witness cor. to the meander cor. of secs. 4 and 5, with brass cap marked
	T44S | R5E S 5 | S 4 MC WC 1934
79.75	The estimated true point for the meander cor. of secs. 4 and 5, on the right bank of the Colorado River, falls on the S. face of a nearly vertical sandstone ledge, about 550 ft. below the witness cor. to the meander cor. of secs. 4 and 5, where it is impossible to reach the point and set a permanent cor.
	Land, rolling sandy bench and broken sandstone surface rock and ledges, with general westerly and southerly exposure and drainage.
	Soil, deep loose sand and sandstone surface rock; 3rd rate.
	Undergrowth, blackbrush, yellow top, mountain rush, oose weeds, and grass.
	No timber.
	Good grazing on sandy bench land.

	From the cor. of secs. 5, 6, 31, and 32, on N. bdy. of Tp., which is an iron post, 2 ins. diam., set, marked and witnessed as described in the official record of the survey of T.43 S., R.5 E., of this group.
	S.0°03'E., bet. secs. 5 and 6.
	Over gently rolling sandy bench land on general W. slope, through scattered short undergrowth.
2.70	Draw, 40 ft. deep, drains S.60°W.
17.50	Sandy ridge, nearly level with sec. cor., bears E. and SW.
21.40	Begin gradual descent over broken S. slope, bears E. and W.
40.00	On gradual S. slope of sandy bench, 75 ft. below ridge.
	Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground, with a sandstone, 6x4x2 ins., marked X, deposited at base, for ¼ sec. cor., with brass cap marked
	¼ S 6 | S 5 1934
	No other suitable accessories available.

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Chains	
45.00	Enter sandstone surface rock, bears NE. and SW.; descend gradual broken general S. slope.
71.90	At top of a nearly vertical sandstone ledge on top of right rim of Colorado River, 530 ft. high, facing S., bears N.80°W. and S.80°E.
	Set an iron post, 3 ft. long, 1 in. diam., 12 ins. in a hole drilled in solid sandstone, and in a mound of stone to top, for witness cor. to the meander cor. of secs. 5 and 6, with brass cap marked
	T44S | R5E S 6 | S 5 MC WC 1934
75.40	The estimated true point for the meander cor. of secs. 5 and 6, on the right bank of the Colorado River, falls on the S. face of a nearly vertical sandstone ledge, 530 ft. below the witness cor. to the meander cor. of secs. 5 and 6; where it is impossible to reach the point and set a permanent cor.
	Land, rolling and broken sandy bench and sandstone surface rock, with general southerly exposure and drainage.
	Soil, shallow loose sand and sandstone surface rock; 3rd rate.
	Undergrowth, blackbrush, mountain rush, yellow top, oose, shadscale, weeds, and grass.
	No timber.
	Good grazing land on sandy bench.

	From the cor. of secs. 1, 6, 7, and 12, on W. bdy. of Tp. which is a red sandstone 12x8x4 ins., above the ground, set, marked and witnessed as described in the official record of the survey of T.44 S., R.4 E., Group 51, Utah.
	East, on true line bet. secs. 6 and 7.
	Ascend gradually over general SW. slope of broken sandstone surface rock and scattered patches of loose sand, through scattered patches of short undergrowth.
19.58	At the top of a nearly vertical sandstone ledge and on the right rim of the Colorado River, 600 ft. high, facing SE., 50 ft. above sec. cor., bears N.60°E. and S.60°W.
	Set an iron post, 3 ft. long, 1 in. diam., 12 ins. in a hole drilled in solid sandstone, and in a mound of stone to top, for witness cor. to the meander cor. of secs. 6 and 7, with brass cap marked
	T44S R5E S 6 | WC MC S 7 1934

Chains

21.58 The estimated true point for the meander cor. of secs. 6 and 7, on the right bank of the Colorado River, falls on the SE. face of a nearly vertical sandstone ledge, about 600 ft. below the witness cor. to the meander cor. of said secs., bears N.72°E. and S.50°W., where it is impossible to reach the point and set a permanent cor.

Land, broken sandstone surface rock and ledges, with general southwesterly exposure and drainage.

Soil, scattered patches of loose sand and sandstone surface rock; 4th rate.

Undergrowth, scattered patches of blackbrush, yellow top, oose, weeds, and grass.

No timber.

Poor grazing land.

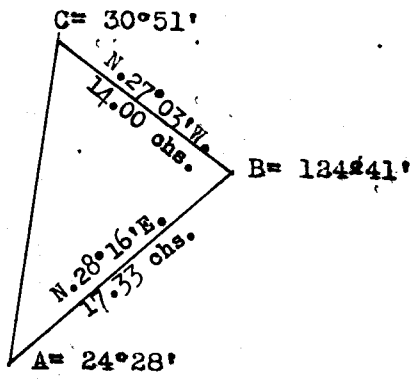
MEANDERS RIGHT BANK OF COLORADO RIVER IN T.44 S., R.5 E.

Note: The true meander lines of the greater portion of the right bank of Colorado River in T.44 S., R.5 E., follows along a nearly perpendicular face of sandstone ledges, from 400 to 600 ft. high, where it is impossible to run the meanders on true line, therefore, a traverse line is run and the approximate distances therefrom noted to the mean high water (it being impossible to make direct measurements and from which its approximate true meander line is computed).

From the witness cor. to the meander cor. of frac. sec. 7 T.44 S., R.5 E., on the Utah-Arizona State Boundary Line, which is N.89°43'W., 50 lks. dist., from the true point for said cor. on the right bank of the Colorado River, heretofore described.

Thence upstream on offset meander lines of the right bank of the river in sec. 7 as follows.

N.28°16'E., 17.33 chs. This course crosses the inaccessible breaks of Warm Creek over which it is impossible to chain. The distance was determined by triangulation as follows. Erect flag A at the beginning of this course and flag B, N.28°16'E. from A. From B, survey base line BC, N.27°03'W., 14.00 chs. dist., and erect flag C. From C, flags A-B subtend an angle of 30°51'. From A, flags B-C subtend an angle of 24°28'. Vertical angle from A to B is 0°. All angles checked by three repetitions and base line double chained.



Distance by triangulation N.28°16'E., 17.33 chs.

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Chains

At the end of this course, the estimated angle point on true meander line bears South, 3.00 chs. dist.

Thence by chaining on offset meander line:

N.56°E., 9.00 chs. dist., to the witness cor. to the meander cor. of frac. secs. 6 and 7, West, 2.00 chs. dist., from the true point for said meander cor., heretofore described.

Thence:

From the true point for the meander cor. of frac. sec. 7, on the Utah-Arizona Boundary Line, upstream on true meander line with the meanders of the right bank of Colorado River in sec. 7, on computed courses and distances.

Along a nearly vertical face of a sandstone ledge about 600 ft. high.

N.32°09'E., 14.49 chs.	At 5.30 chs. (approximate distance) the mouth of Warm Creek, drains from NW. Warm Creek is a stream of alkali water, 10 lks. wide, 5 ins. deep, in a narrow boxed canyon with broken sandstone walls 600 ft. high.
N.49°38'E., 12.41 chs.	At end of this course the estimated true point for meander cor. of frac. secs. 6 and 7.

Land, broken sandstone ledges and surface rock.
No soil, timber, undergrowth, or grazing.

Thence in sec. 6.

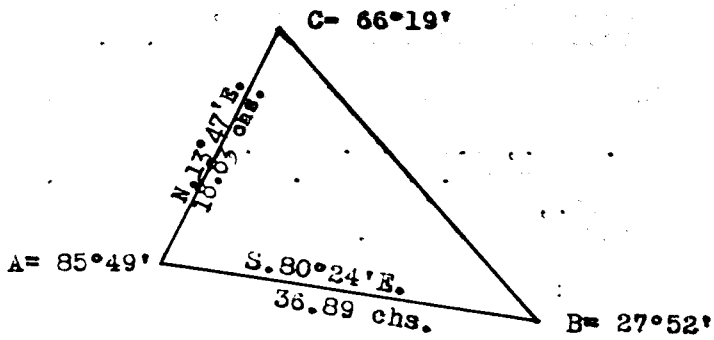
From the witness cor. to the meander cor. of frac. secs. 6 and 7, which is West, 2.00 chs. dist. from the true point for said meander cor. on the right bank of the Colorado River.

Thence upstream on offset meander lines along the right rim of river in sec. 6, as follows:

N.68°58'E., 34.93 chs.	At end of this course, the estimated angle point on true meander line bears South, 3.00 chs. dist.

S.80°24'E., 27.52 chs. This course follows along the rim of river which in places is broken and over which it is impossible to chain. I therefore determine the distance by triangulation as follows. Erect flag A at the beginning of this course and flag B, S.80°24'E. from A. From A, survey base line AC, N.13°47'E., 18.83 chs. dist., and erect flag C. From C, flags A-B subtend an angle of 66°19'. From B, flags A-C subtend an angle of 27°52'. Vertical angle from A to B is 0°. All angles checked by three repetitions and base line double chained.

Chains



Distance by triangulation, S.80°24'E.,	36.89 chs.
Distance by return measurement from point. B of triangulation, N.80°24'W., ---------	9.37 chs.
Distance on this course, S.80°24'E.	27.52 chs.

At the end of this course intersect the witness cor. to meander cor. of frac. secs. 5 and 6, which is N.0°03'W., 3.50 chs. dist. from the true point for said meander cor. on the right bank of the Colorado River, heretofore described.

Thence

From the true point for the meander cor. of frac. secs. 6 and 7, upstream on true meander line with the meanders of the right bank of the Colorado River in sec. 6, on computed courses and distances.

Along a nearly vertical face of sandstone ledge from 400 to 600 ft. high.

N.72°41'E., 32.06 chs.

S.79°23'E., 27.61 chs. At end of this course the estimated true point for meander cor. of frac. secs. 5 and 6.

Land, broken sandstone surface rock and ledges, with general southerly exposure and drainage.

No soil, timber, undergrowth, or grazing.

Thence in sec. 5.

From the witness cor. to meander cor. of frac. secs. 5 and 6, which is N.0°03'W., 3.50 chs. dist., from the estimated true point for said meander cor. on the right bank of the Colorado River.

Thence upstream on offset meander lines along the right rim of the river in sec. 5 as follows.

S.80°24'E., 9.35 chs. At the end of this course the estimated angle point on the true meander line bears South, 2.50 chs. dist.

N.83°E., 9.94 chs. At the end of this course the estimated angle point on the true meander line bears South, 75 lks. dist.

S.86°30'E., 59.21 chs. At the end of this course the

Chains	
	estimated angle point on the true meander line bears South, 2.00 chs. dist.
S.41°11'E., 2.87 chs.	At the end of this course intersect the witness cor. to the meander cor. of frac. secs. 4 and 5, which is N.0°03'W., 1.73 chs. dist. from the estimated true point for said meander cor. on the right bank of the Colorado River, heretofore described.

Thence

From the true point for the meander cor. of frac. secs. 5 and 6, upstream on true meander line with the meanders of the right bank of the Colorado River in sec. 5, on computed courses and distances.

Along a nearly vertical face of a sandstone ledge from 400 to 600 ft. high.

S.86°32'E.,	9.23 chs.	
N.73°18'E.,	10.30 chs.	
S.85°18'E.,	59.30 chs.	
S.45°E.,	2.67 chs.	At end of this course the estimated true point for meander cor. of frac. secs. 4 and 5.

Land, broken sandstone surface rock and ledges, with general southerly exposure and drainage.

No soil, timber, undergrowth, or grazing.

Thence in sec. 4.

From the witness cor. to the meander cor. of frac. secs. 4 and 5, which is N.0°03'W., 1.73 chs. dist., from the estimated true point for said meander cor. on the right bank of the Colorado River.

Thence upstream on offset meander lines along the right rim of the river in sec. 4 as follows.

S.82°14'E.,	42.10 chs.	At the end of this course the estimated angle point on true meander line bears South, 4.00 chs. dist.
S.82°30'E.,	9.14 chs.	At the end of this course the estimated angle point on true meander line bears South, 2.50 chs. dist.
N.78°30'E.,	24.55 chs.	At the end of this course the estimated angle point on true meander line bears South, 2.00 chs. dist.
N.70°51'E.,	5.52 chs.	At the end of this course intersect the witness cor. to the meander cor. of frac. secs. 3

Chains

and 4, which is N.0°02'W., 1.0 ch. dist., from the estimated true point for said meander cor. on the right bank of the Colorado River, heretofore described.

Thence

From the true point for the meander cor. of frac. secs. 4 and 5, upstream on true meander line with the meanders of the right bank of the Colorado River in sec. 4, on computed courses and distances.

Along a nearly vertical face of a sandstone ledge from 500 to 600 ft. high.

S.79°12'E., 42.46 chs. At 19.50 chs. (approximate distance) the mouth of a sandstone gulch, 100 ft. deep, drains from the N.

N.87°40'E., 9.07 chs.

N.77°22'E., 24.65 chs.

N.61°41'E., 5.92 chs. At end of this course the estimated true point for meander cor. of frac. secs. 3 and 4.

Land, broken sandstone ledges and surface rock, with general southerly exposure and drainage.

No soil, timber, undergrowth, or grazing.

Thence in sec. 3,

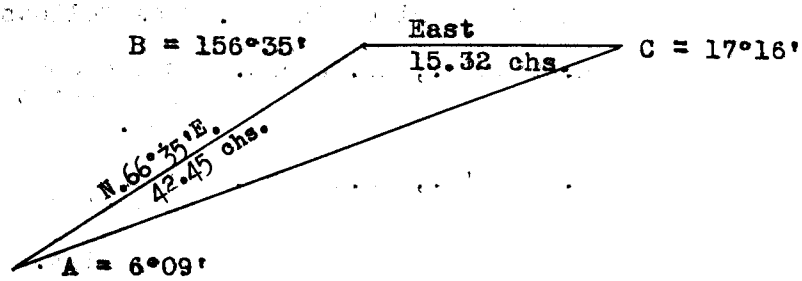
From the witness cor. to the meander cor. of frac. secs. 3 and 4, which is N.0°02'W., 1.00 ch. dist., from the estimated true point for said meander cor. on the right bank of the Colorado River.

Thence upstream on offset meander lines along the right rim of the river in sec. 3 as follows:

N.53°30'E., 4.89 chs. At end of this course the estimated angle point on true meander line bears South, 50 lks. dist.

N.66°35'E., 42.45 chs. This course passes over inaccessible sandstone ledges and breaks of the river over which it is impossible to chain. I therefore determined the distance by triangulation as follows. Erect flag A at the beginning of this course and flag B, N.66°35'E. from A. From B, survey base line BC, East, 15.32 chs. dist., and erect flag C. (No other suitable base line available) From A, flags B-C subtend an angle of 6°09'. From C, flags A-B subtend an angle of 17°16'. Vertical angle from A to B is -10°17'. All angles checked by three repetitions and base line double chained.

Chains



Distance by triangulation, N.66°35'E., 42.45 chs.

Angle point at the end of this course is on the true meander line on a sandy river bar. The remainder of the meanders through this sec. are run on true line along sandy river bar.

Thence

From the true point for the meander cor. of frac. secs. 3 and 4, upstream on true meander line with the meanders of the right bank of the Colorado River in sec. 3, on computed courses and distances.

Along a nearly vertical face of a sandstone ledges from 500 to 600 ft. high.

N.49°04'E., 5.20 chs.

N.65°58'E., 42.65 chs. At the end of this course is the W. end of a sandy river bar from 1 to 4 chs. wide, thence along a sloping sandy bank, through dense undergrowth of willows,

East, 15.32 chs., along true meander line by direct measurement.

N.72°43'E., 22.93 chs. At the end of this course the true point for the meander cor. of frac. secs. 2 and 3, which is S.0°01'E., 4.10 chs. dist., from the witness cor. to the meander cor. of said frac. secs.

Land, broken sandstone surface rock and ledges, and sandy river bar, with general southerly exposure and drainage.

Soil, deep fine sand on river bar; 2nd rate.

Undergrowth, willows, rabbit brush, and grass.

No timber.

Poor grazing land.

Thence in sec. 2.

From a point S.0°01'E., 1.70 chs. dist., from the true point for the meander cor. of frac. secs. 2 and 3, and S.0°01'E., 5.80 chs. dist., from the witness cor. to the meander cor. of frac. secs. 2 and 3 on the right bank of the Colorado River.

Chains

Thence upstream on offset meander lines along the right bank of the river in sec. 2 as follows.

N.39°48'E., 11.93 chs.	At the end of this course is an angle point on the true meander line.
N.39°48'E., 42.50 chs.	At the end of this course the estimated angle point on true meander line bears South, 3.00 chs. dist.
N.39°48'E., 15.00 chs.	Point which is West, 2.05 chs. dist. from the witness cor. to the meander cor. of frac. secs. 2 and 35, on N. bdy. of Tp. which is an iron post, 1 in. diam., set, marked and witnessed as described in the official record of the survey of T.43 S. R.5 E., of this group. This witness cor. is West, 50 lks. dist., from the estimated true point for said meander cor.

Thence

From the true point for the meander cor. of frac. secs. 2 and 3, upstream on true meander line with the meanders of the right bank of the Colorado River in sec. 2, on computed courses and distances.

Along a sloping sandy bank, through very dense willows and scattered rabbit brush undergrowth.

N.45°39'E., 10.67 chs.	At the end of this course leave sandy bank at the E. end of river bar, thence along a nearly vertical face of a high sandstone ledge, bears N.42°32'E. and S. 80°W.
N.42°32'E., 40.24 chs.	At 7.50 chs. (approximate distance) the mouth of a sandstone gulch, 50 ft. deep, drains from the NW.
N.39°55'E., 18.94 chs.	At the end of this course the estimated true point for meander cor. of frac. secs. 2 and 35, on N. bdy. of township.

Land, sandy river bar and sandstone surface rock and ledges, with general southerly exposure and drainage.

Soil, deep fine sand, 2nd rate, on river bar; none on sandstone surface rock and ledges.

Undergrowth, willows, rabbit brush, weeds, and grass on river bar; none on remainder of line.

No timber.

Poor grazing land.

Thence in sec. 1.

From the true point for the meander cor. of frac. secs. 1

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Chains

and 36, on N. bdy. of tp., which is West, 1.50 chs. dist. from the witness cor. to the meander cor. of said frac. secs. on the right bank of the Colorado River. The witness cor. is an iron post, 1 in. diam., set, marked and witnessed as described in the official record of the survey of T.43 S., R.5 E., of this group.

Thence upstream with the meanders of the right bank of the river in sec. 1.

Over Gunsight Bar, along a sloping sandy bank, through dense undergrowth of willows.

S.34°10'E., 22.43 chs.

S.41°15'E., 17.69 chs.

S.54°08'E., 16.11 chs.

East, 10.48 chs.

N.76°37'E., 6.59 chs. At the end of this course the true point for the meander cor. of frac. secs. 1 and 6, on E. bdy. of township, which is South 4.75 chs. dist., from the witness cor. to the meander cor. of said frac. secs., heretofore described.

Land, sandy river bar and bottom land.

Soil, deep fine sand; 2nd rate.

Undergrowth, willows, rabbit brush, greasewood, weeds, and grass.

No timber.

Fair grazing land.

GENERAL DESCRIPTION

The land within the boundaries of fractional township 44 south, range 5 east, consists of a sandy bench land and the north breaks of the Colorado River. The elevation above sea level ranges from about 3,250 ft. at the river to 3,850 ft. on the tops of the sandy benches. The southern portion of the fractional township consists of a bare sandstone surface rock and ledges, with a sandstone ledge from 400 to 600 ft. high facing the river through most of the township. The NW. portion of sec. 3, the NE. portion of sec. 6, and the northern portions of secs. 4 and 5, is a sandy bench land, with soil of a deep loose sand, lying on sandstone bedrock, and may be classified as 3rd rate. This sandy bench land supports a scattered undergrowth of blackbrush, yellow top, mountain rush, shadscale, oose, weeds, and grass, which affords good grazing for stock. There is a small sandy river bar located at the meander cor. of fractional secs. 2 and 3, on the right bank of the Colorado River. This river bar is from 1 to 4 chains in width and is subject to over flow at times of extreme high water. The soil on this river bar is a deep fine silt sand and may be classified as 2nd rate, which supports a dense undergrowth of willows along the main river bank, and from there to the base of abrupt sandstone breaks an

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undergrowth of dense rabbit brush, greasewood, weeds, and grass. It is impossible for stock to reach this river bar, because of steep sandstone surface rock and ledges. A portion of what is locally known as Gunsight Bar is located in fractional sec. 1. This river bar can be reached by stock over a rough trail. A dense undergrowth of willows is found along the edge of the main river bank and from there to the base of abrupt sandstone breaks there is an undergrowth of rabbit brush, greasewood, weeds and grass, which affords good grazing for stock. The soil on this river bar is a deep silt sand and beds of fine loose gravel that may be classified as 3rd rate. On the slightly higher land near the base of sandstone breaks is found shallow beds of coarse gravel that may be classified as 4th rate. No timber was found on this fractional township.

Warm Creek, which is a stream of alkali water, 10 links wide, 4 ins. deep, flows southerly in a sandstone gorge about 600 ft. deep, along the W. boundary of the fractional township, and enters the Colorado River in fractional sec. 7. This stream heads southerly about 20.00 chs. distant from the NW. cor. of fractional sec. 6, and is the only water found in the township excepting the Colorado River.

Indications of placer mining were found on Gunsight Bar, in fractional sec. 1, which consisted of a few small prospect holes in some of the gravel beds.

No settlers were living on the township at the time of this survey and no land is suitable for cultivation. The township in general is suitable for the grazing of stock and was being used for that purpose.

No indications of oil, oil shale, coal, or mineral were found on this fractional township.

The mean magnetic declination was found to be 16°E.

The nearest settlement to this fractional township is Lee's Ferry, Arizona, which is located on the right bank of the Colorado River, about 40 miles in a southwesterly direction. Marble Canyon, Arizona, is located about 7 miles distant from Lee's Ferry, and at the time of this survey a post office was being maintained at this point.

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BOOK A-503

4—680
(August, 1926)

FIELD ASSISTANTS.

NAMES.	CAPACITY.
Edward Eliason	Chainman
Molen Roper	Chainman
Bert Swain	Chainman
Reed Overson	Chainman
Ross A. Slye	Axman
Arthur W. Warenski	Axman
Ray R. Morgan	Axman

G—276A

BOOK 4-503

CERTIFICATE OF UNITED STATES SURVEYOR

I Elliot Bird, U. S. Surveyor, hereby certify upon honor that, in pursuance of special instructions received from the District Cadastral Engineer for Utah bearing date of the 11th day of February, 1916, I have well, faithfully, and truly in my own proper person and in strict conformity with said instructions, the Manual of Surveying Instructions and the laws of the United States, surveyed all those parts or portions of establishment of witness corner to meander corner on the right bank of the Colorado River on the 146th mile of the Utah-Arizona State Boundary; Survey of the east boundary and subdivisional lines and meanders of the right bank of the Colorado River in fractional T.44 S., R.5 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 all the corners of [illegible] have been established and perpetuated in strict accordance with the Manual of Surveying Instructions and the special written instructions of the District Cadastral Engineer for Utah [illegible] manner described in the field notes, and that the foregoing are the original field notes of [illegible]

Salt Lake City, Utah
April 13, 1935

U. S. Surveyor.

APPROVAL

Office of U. S. Supervisor of Surveys,

Denver, Colorado 1935, 1935.

The foregoing field notes of the survey of establishment of witness corner to meander corner on the right bank of the Colorado River on the 146th mile of the Utah-Arizona State Boundary; Survey of the east boundary and subdivisional lines and meanders of the right bank of the Colorado River in fractional T.44 S., R.5 E.

[illegible] Elliot Bird, U. S. Surveyor

[illegible] dated February 11, 1916, having been [illegible] the necessary corrections and explanations made, the said field notes, and the surveys [illegible] approved.

U. S. Supervisor of Surveys.

~~I certify that the foregoing transcript of the field notes of the above described surveys in~~

~~has been correctly copied from the original notes on file in this office.~~

~~U. S. Supervisor of Surveys.~~

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4—679

BOOK A-503 "C"

FIELD NOTES

OF THE SURVEY OF THE

NORTH, EAST, AND SOUTH BOUNDARIES AND SUBDIVISION; AND

MEANDERS OF THE RIGHT BANK OF THE COLORADO RIVER

IN FRACTIONAL T. 43 S., R. 6 E.

Of the Salt Lake *Meridian,*

he State of Utah

EXECUTED BY

Elliot Bird, U.S. Surveyor

he capacity of U. S. Surveyor, under Special Instructions dated February 11,

5, issued by the District Cadastral Engineer to govern surveys included in Group

52, *which were approved by the Commissioner of the General Land*

e, April 5, *19*16, *and* supplemental *Assignment Instructions dated* December 1, *19*33

Survey commenced April 13, *19* 34.

Survey completed May 15, *19* 34.

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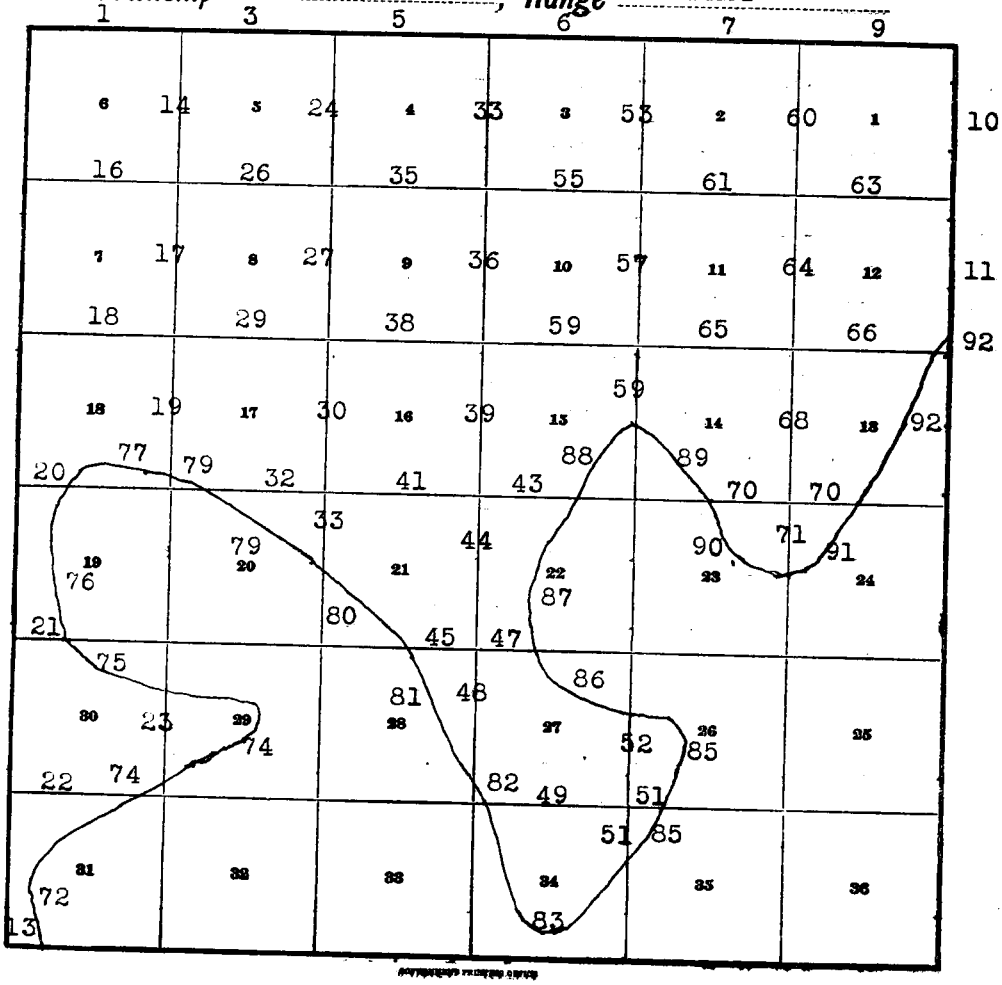
INDEX DIAGRAM.

Township 43 SOUTH, *Range* 6 EAST



The survey of fractional township 43 south, range 6 east, was commenced April 13, 1934, and executed with Buff and Buff light mountain transit No. 18003, used by Elliot Bird, U.S. Surveyor. The instrument is equipped with a Smith solar attachment and full vertical circle. The horizontal limb of the transit is provided with two double verniers placed opposite to each other and reading to single minutes of arc, which is also the least count of the verniers of the latitude and declination arcs, and the vertical circle. The instrument was approved for use on this survey by the district cadastral engineer for Utah, conditional upon satisfactory field tests as stated in supplemental assignment instructions, dated December 1, 1933. The instrument was in good condition at the time of this survey and all adjustments were in good order. The country over which the lines of the survey are to be extended is all open land and the solar attachment is not used. All azimuths in this record are referred to true meridians determined by observations made upon Polaris during the progress of the survey. The lines were carried forward by double fore and back sights and the bearings determined by deflection angles.

Unless otherwise specified measurements were made with a Lallie steel ribbon tape, 5 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 Lufkin standard steel tape, 1 chain long, and found correct. Measurements were made on the slope, and the vertical angle of each interval was determined by clinometers in good adjustment; the horizontal equivalents only are entered in the field note record.

April 19, 1934, at the cor. of Tps, 42 and 43 S., Rs. 6 and 7 E., in approximate latitude 37°06' N. and longitude 111°12' W., at 6h 08.9m p.m. by my watch, which carries correct 105th meridian standard time as compared by radio time signals, April 18, 1934, I make an hour angle observation on Polaris, west of the meridian, two each with the telescope in direct and reversed positions, reading the horizontal deflection angle from a well defined point on a ledge about 30 chains N., in the direction W. to Polaris.

Watch fast of local mean time --------24.8m
Local mean time of observation--------5h 44.1m p. m.
Mean horizontal angle, Polaris to reference point-- ----------1°18'.8 E.
Azimuth of Polaris----------1°18'.8 W.
True bearing of reference point-------North.

At the same station, April 20, 1934, I make a meridian altitude observation of the sun for latitude, observing the altitude of the of the sun's lower limb with the telescope in direct position, reversing the transit and observing the sun's upper limb:

Apparent time of observation, noon -- 12h 00m 00s.
Mean observed altitude---------- 64° 23' 30".
Reduced latitude---------- 37° 06' N.

NORTH BOUNDARY OF T.43 S., R.6 E.

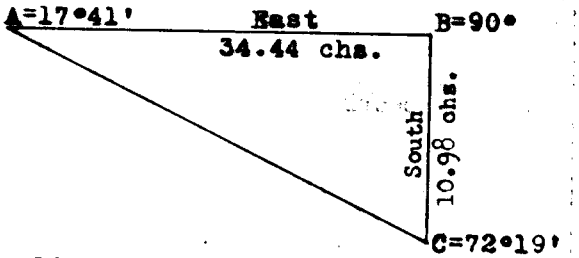
From the cor. of Tps.42 and 43 S., Rs.5 and 6 E., which is an iron post, 3 ins. diam., set, marked, and witnessed as described in the official record of the survey of T.43 S., R.5 E., of this group. (See notes of survey T. 43 S., R.5 E., for observation on Polaris at this cor.)

Chains

East, on true line bet. secs. 6 and 31.

Over gently rolling mesa land, through scattered short undergrowth.

5.56 East rim of mesa and the top of a nearly vertical sandstone ledge, facing E., about 250 ft. high, bears N. and S. The line to the E. of this point descends over inaccessible sandstone ledges and breaks over which it is impracticable to chain, I therefore determine the distance by triangulation as follows. Erect flag A at this point and flag B on line to the E. From B, survey base line BC, South, 10.98 chs. dist., and erect flag C. From A, flags B-C subtend an angle of 17°41'. From C, flags A-B subtend an angle of 72°19'. Vertical angle from A to B is - 14°10'. All angles checked by repetition and base line double chained.



Distance on line	5.56 chs.
Distance by triangulation	34.44 chs.
Distance to point B of triangulation	40.00 chs.
Distance by return measurement	23.00 chs.
	17.00 chs.

17.00 Base of E. breaks of mesa, bears N.25°E. and SE., thence over rolling sandy land on general E. slope, through scattered short undergrowth.

36.2 Bend in bottom of Right Fork of Cane Wash, 60 lks. wide, 4 ft. deep, 585 ft. below rim of mesa, drains N.75°E., from N.25°W.

40.00 Point B of triangulation on gentle sandy NE. slope, 585 ft. below rim of mesa.

Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground, with a sandstone 14x10x6 ins., marked X, deposited at base, for ¼ sec. cor., with brass cap marked

¼ S 31 / S 6

1934

No other suitable accessories available.

45.1 Right Fork of Cane Wash, 60 lks. wide, 4 ft. deep, 20 ft. below ¼ sec. cor., drains S.30°E.; thence over general W. slope of rolling sandy land.

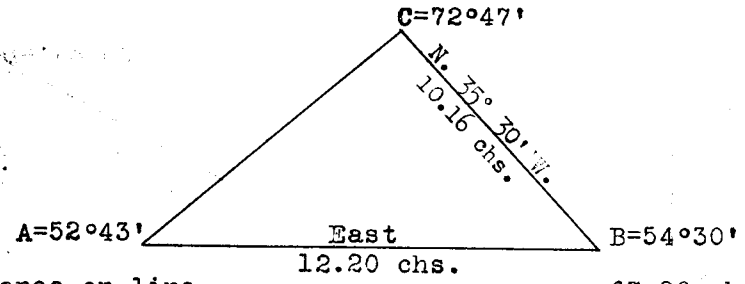
59.40 Sandy draw, 30 ft. deep, drains SW. and heads NE. about 5.[illegible] chs. dist., at the base of sandstone ledges.

67.00 Leave flag point.

68.20 Base of the W. breaks of a high mesa, facing SW., 60 ft. above the bottom of Right Fork of Cane Wash, bears N.30°W. and S.15°E. The line to the E. of this point ascends abruptly over inaccessible sandstone ledges and breaks of mesa over which it is impracticable to chain,

Chains

I therefore determine the distance by triangulation as follows: I return to the 67.80 chs. point and erect flag A; on line to the E. from A erect flag B. From B, survey base line BC, N.35°30'W., 10.16 chs. dist., and erect flag C. From A, flags B-C subtend an angle of 52°43'. From C, flags A-B subtend an angle of 72°47'. Vertical angle from A to B is + 39°42'. All angles checked by three repetitions and base line double chained.



Distance on line	67.80 chs.
Distance by triangulation	12.20 chs.
	80.00 chs.

80.00 Point B of triangulation on top of the W. breaks of mesa and on top of a nearly vertical sandstone ledge about 300 ft. high, facing W., 675 ft. above W. base of breaks, bears S.10°W., and N.10°E. about 5.00 chs. dist., thence NW. ; on solid sandstone mark a cross, over which:

Set an iron post, 3 ft. long, 2 ins. diam., in a large mound of stone to top, for cor. of secs. 5, 6, 31, and 32, with brass cap marked

T42S R6E
S31 | S32
S 6 | S 5
T 43 S

1934

Land, sandy rolling, and sandstone breaks and ledges, with general southeasterly and southwesterly exposure and drainage.

Soil, shallow loose sand and sandstone surface rock; 3rd rate.

Undergrowth, blackbrush, mountain rush, yellow top, oose, weeds, and grass.

No timber.

Fair grazing land.

East, bet. secs. 5 and 32.

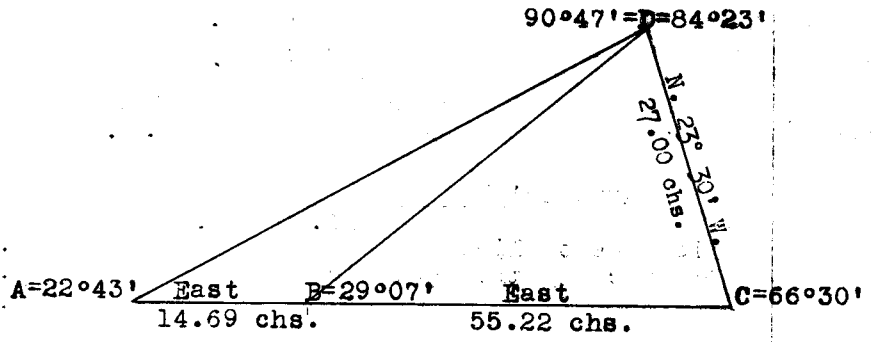
Over gently rolling mesa land, through scattered short undergrowth.

25.96 Rim of mesa and top of W. breaks of Last Chance Creek, bears SE. and N. about 8.00 chs. dist., thence NE. The line to the E. of this point descends over inaccessible high sandstone ledges and breaks of Last Chance Creek, over which it is impracticable to chain, I therefore determine the distance by triangulation as follows.

NORTH BOUNDARY OF T.43 S., R.6 E.

Chains

Erect flag A at this point and flags B and C on line to the E. From C, survey base line CD, N.23°30'W., 27.00 dist., and erect flag D. From A, flags B-D subtend an angle of 22°43'. From B, flags C-D subtend an angle of 29°07'. From D, flags A-C subtend an angle of 90°47'. From D, flags B-C subtend and angle of 84°23'. Vertical angle from from A to B is - 12°45'. Vertical angle from B to C is - 12°45'. All angles checked by three repetitions and base line double chained.



Distance on line	25.96 chs.
Distance by triangulation, A to B	14.69 chs.
Distance by triangulation, B to C	55.22 chs.
	95.87 chs.
Distance by return measurement	15.87 chs.
	80.00 chs.

of 65 lks.

40.00 Distance by return measurement/from point B of triangulation; on steep broken N. slope of NE. face of mesa, 220 ft. below rim.

Set an iron post, 3 ft. long, 1 in. diam., 20 ins. in the ground to solid rock, with a sandstone 10x4x3 ins., marked X, deposited at base, and in a mound of stone to top, for ¼ sec. cor., with brass cap marked

¼ S 32 / S 5

1934

53.50 Approximate distance to the top of a bare sandstone spur, 190 ft. below ¼ sec. cor., projects NE.; descend abrupt E. slope over sandstone ledges and surface rock.

67.50 Approximate distance to the base of sandstone ledges, bears N.20°E. and S.; descend gradual broken sandy E. slope.

80.00 On broken E. slope, 770 ft. below ¼ sec. cor.

Set an iron post, 3 ft. long, 2 ins. diam., 20 ins. in the ground to solid rock, with a sandstone, 16x14x10 ins., marked X, deposited at base, and in a mound of stone to top, for cor. of secs. 4, 5, 32, and 33, with brass cap marked

T42S R6E
S32 | S33
S 5 | S 4
T43S

1934

Land, rolling mesa, broken sandstone ledges and surface

Chains	
	rock, and broken bench land, with general northeasterly and easterly exposure and drainage.
	Soil, shallow sand and sandstone ledges and surface rock; 3rd rate.
	Undergrowth, blackbrush, yellow top, mountain rush, oose, weeds, and grass.
	No timber.
	Fair grazing land on bench and mesa.
	East, bet. secs. 4 and 33.
	Descend gradually over general broken E. slope of sandy bench, through scattered short undergrowth.
11.40	Enter bottom lands of Last Chance Creek, 50 ft. below sec. cor., bears NW. and S.; thence over sandy nearly level bottom land.
16.60	Right bank of channel in the bottom of Last Chance Creek, 5 ft. high, bears NW. and SE. about 3.00 chs. dist., thence S.
17.20	Last Chance Creek, which is a stream of alkali water, 7 lks. wide, 1 in. deep, drains SE. about 3.50 chs. dist., thence S.
24.60	Left bank of channel, 6 ft. high, bears S., and N. 1.50 chs. dist., thence N.30°W., at the E. side of bottom of Last Chance Creek; ascend gradually over sandstone outcroppings and patches of sand and rock on broken SW. slope.
36.50	Sandstone gulch, 35 ft. deep, that heads NE. about 7.00 chs. dist., drains SW.
38.90	Leave flag point.
40.00	On steep SW. slope, 75 ft. above Last Chance Creek.
	Set an iron post, 3 ft. long, 1 in. diam., 10 ins. in the ground to solid rock, with a sandstone 8x6x6 ins., marked X, deposited at base, and in a mound of stone to top, for ¼-sec. cor., with brass cap marked
	¼ S 33 / S 4
	1934
42.00	Base of a high broken sandstone ledge, bears N. and S.30°W. about 10.00 chs. dist., thence S.30°E., over which it is impossible to project line or chain, because of inaccessible ledges and sharp SW. point of mesa top. I therefore return to the 38.90 chs. point and offset around the SW. point of breaks as follows:
	S.0°02'W., 30.00 chs. dist., thence:
	East, 41.10 chs. dist., thence:
	N.0°02'E., 30.00 chs. dist., to true line
70.00	Approximate distance on true line; top of high sharp point

Chains	
	of mesa 95ft. above ¼ sec. cor., projects S.70°W.
80.00	Point on true line at the base of perpendicular sandstone ledge, about 250 ft. high, facing SE., on a narrow shelf 30 lks. wide, bears N.70°E. and S.70°W., 750 ft. above ¼ sec. cor., marked a cross on solid sandstone, over which
	Set an iron post, 3 ft. long, 2 ins. diam., in a large mound of stone, for cor. of secs. 3, 4, 33, and 34, with brass cap marked

T42S R6E
S33 S34
S 4 S 3
T43S

1934

Land, broken bench, level bottom land, and sandstone surface rock and ledges, with general southerly exposure and drainage.

Soil, shallow loose sand and sandstone surface rock and ledges; 3rd rate. Deep sandy loam in bottom of Last Chance Creek, 2nd rate.

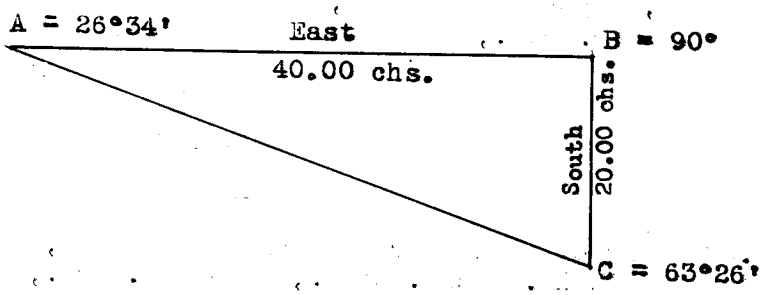
Undergrowth, blackbrush, mountain rush, shadscale, greasewood, yellow top, weeds, and grass.

No timber.

Fair grazing land.

East, bet. secs. 3 and 34.

The line to the E. from cor. of secs. 3, 4, 33 and 34, descends over steep sloping sandstone ledges and surface rock on broken SE. slope of point of mesa, over which it is impracticable to chain. I therefore determine the distance by triangulation as follows. Erect flag at the cor. of secs. 3, 4, 33, and 34, and flag B on line to the E. From B, survey base line BC, South 20.00 chs. dist., and erect flag C. From A, flags B-C subtend an angle of 26°34'. From C, flags A-B subtend and angle of 63°26'. Vertical angle from A to B is -13°15'. All angles checked by three repetitions and base line double chained



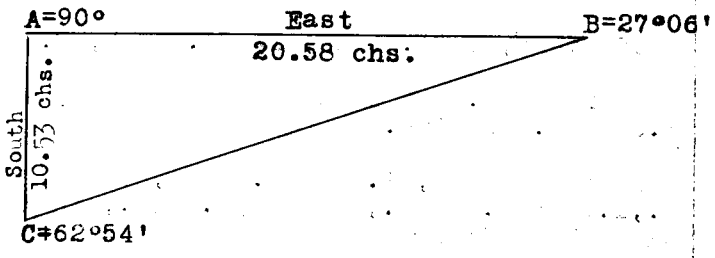
Distance by triangulation	40.00 chs.
Distance by return measurement	5.50 chs.
	34.50 chs.

34.50	Base of sandstone breaks and ledges, bears N.60°E. and S.60°W.; thence over broken sandy land.
40.00	On gentle sandy SW. slope, 630 ft. below sec. cor.
	Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in

Chains	
	the ground, for ¼ sec. cor., with brass cap marked S 34 ¼ S 3 1934 raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor.
44.30	Top of the S. end of a sandstone dome, 25 ft. high, and 1.50 chs. in diam.
48.80	Sandstone gulch, 1.50 chs. wide, 40 ft. deep, drains S.,1.20 chs. dist., thence S.60°W., in the bottom of a small canyon; ascend gradually over broken general W. slope.
63.00	Base of the S. end of a sandstone dome, 150 ft. high, 4.00 chs. in diam., bears S.,50 lks. dist.
66.20	Base of sloping sandstone ledges and surface rock, bears N. and S; ascend abruptly over general SW. slope.
72.00	Top of ascent on S. slope of a sandstone dome, 260 ft. above bottom of canyon; top of dome about 50 ft. above this point, bears N., 80 lks. dist.; thence along S. slope.
76.37	Leave flag point on top of a bare sandstone spur, 260 ft. above bottom of canyon, projects N.80°W. from E.; thence ascend along the general top of spur.
80.00	On sloping sandstone surface rock at the base of steep broken W. slope, 15 ft. above 76.37 chs. point on spur, bears N. and S.
	Set an iron post, 24 ins. long, 1 in. diam., 14 ins. in a hole drilled in solid sandstone, for cor. of secs. 2, 3, 34, and 35, with brass cap marked T42S R6E S34 | S35 S 3 | S 2 T43S 1934
	Land, broken sandstone surface rock and ledges, and sandy bottom of canyon, with general southeasterly and southwesterly exposure and drainage.
	Soil, shallow sand and sandstone surface rock; 3rd rate.
	Undergrowth, blackbrush, yellow top, mountain rush, oose, weeds, and grass.
	No timber.
	Fair grazing land in bottom of canyon.
	East, bet. secs. 2 and 35.
	The line to the E. of the cor. of secs. 2, 3, 34, and 35, ascends over steep sandstone surface rock and ledges, facing W., over which it is impossible to chain, I there-

Chains

fore run West, 3.63 chs. dist., and erect flag A. From A erect flag B on rim of mesa to the East. From A, survey base line AC, South, 10.53 chs. dist., and erect flag C. From C, flags A-B subtend an angle of 62°54'. From B, flags A-C subtend an angle of 27°06'. Vertical angle from A to B is + 28°45'. All angles checked by three repetitions and base line double chained.



Distance by triangulation	20.58 chs.
Distance from point A of triangulation to the cor. of secs. 2, 3, 34, and 35, East	3.63 chs.
	16.95 chs.

16.95 Point B of triangulation on top of a nearly vertical high sandstone ledge and W. rim of mesa, 735 ft. above sec. cor., bears SW., and NE. about 12.00 chs. dist., thence N.; ascend gradually over sandstone surface rock and patches of shallow loose sand on general W. slope of broken mesa land, through scattered short undergrowth.

23.40 Top of sandstone ledge, 20 ft. high, facing W., bears N. and S.30°W.

31.70 Spur, 100 ft. above rim of mesa, projects S.60°W.; descend gradual SE. slope.

32.20 Rim rock, 5 ft. high, bears N.70°E. and S.70°W., faces SE.

36.90 Small draw, 25 ft. below spur; drains SW.; ascend gradual W. slope.

40.00 On gentle W. slope, 20 ft. above draw.

Set an iron post, 3 ft. long, 1 in. diam., 8 ins. in the ground to solid rock, with a sandstone, 12x10x8 ins., marked X, deposited at base, and in a mound of stone to top, for ¼ sec. cor., with brass cap marked

$$\frac{S\ 32}{S\ 2}\ \frac{1}{4}$$

1934

40.75 South point of a sandstone rim, 5 ft. high, bears N.70°E. and NW.; descend gradually over broken SE. slope.

46.50 Draw, 50 ft. below S. point of rim, drains S.60°W., and heads N.60°E. about 4.00 chs. dist.; ascend gradual W. slope.

55.90 Top of rim rock, 5 ft. high, bears NW. and S., faces W.; thence ascend gradually over sandy general W. slope.

67.00 Sandy spur, 115 ft. above draw; projects S.50°W.; descend gradual SE. slope.

72.20 Bottom of a sandy swale, 20 ft. below spur, drains SW.;

Chains	
	ascend gradual W. slope.
80.00	On sandy W. slope, 10 ft. above bottom of swale.
	Set an iron post, 3 ft. long, 2 ins. diam., 27 ins. in the ground, for cor. of secs. 1, 2, 35, and 36, with brass cap marked

T42S R6E
S35 | S36
S 2 | S 1
T43S

1934

raise a mound of stone, 2½ ft. base, 2 ft. high, W. of cor.

Land, rolling mesa and sandstone ledges and surface rock, with general southwesterly exposure and drainage.

Soil, shallow coarse sand and sandstone surface rock; 3rd rate.

Undergrowth, blackbrush, mountain rush, oose, weeds, and grass.

No timber.

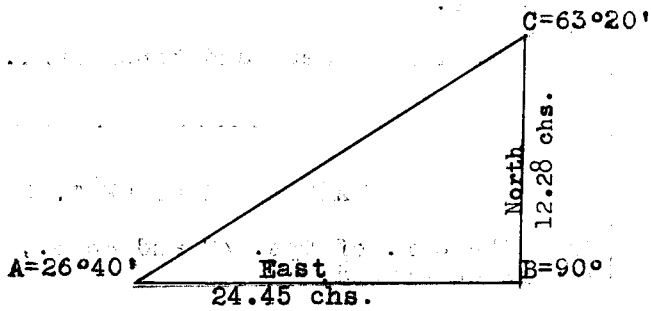
Good grazing land.

East, bet. secs. 1 and 36.

Ascend gradually over gentle W. slope of rolling mesa land, through scattered short undergrowth.

15.50 Low sandy ridge, 20 ft. above sec. cor., bears N. and S.; descend gradual E. slope.

25.15 Top of the E. rim of mesa, 55 ft. below ridge, bears N. and S. Line to the E. of this point descends abrupty over high inaccessible sandstone ledges and E. face of breaks of mesa, over which it is impossible to chain, I therefore determine the distance by triangulation as follows. Erect flag A at this point and flag B on line to the E. From B, survey base line BC, North, 12.28 chs. dist., and erect flag C. From C, flags A-B subtend an angle of 63°20'. From A, flags B-C subtend an angle of 26°40'. Vertical angle from A to B is - 33° 20'. All angles checked by repetition and base line double chained.



Distance on line	25.15 chs.
Distance by triangulation	24.45 chs.
Distance to point B of triangulation	49.60 chs.
Distance by return measurement	9.60 chs.
	40.00 chs.

NORTH BOUNDARY OF T.43 S., R.6 E.

Chains

40.00 On steep rocky E. slope, 940 ft. below rim of mesa.

Set an iron post, 3 ft. long, 1 in. diam., 20 ins. in the ground to solid rock, with a sandstone, 10x8x4 ins., marked X, deposited at base, and in a mound of stone to top, for ¼ sec. cor., with brass cap marked

¼ S 36 / S 1

1934

Descend steep E. slope, over sandstone surface rock and patches of sand and rock.

43.70 Base of sandstone surface rock and E. face of breaks of mesa, bears N. and S.35°E.; descend gradual sandy SE. slope, through scattered short undergrowth, on rolling bench land.

49.60 Point B of triangulation, 1070 ft. below rim of mesa.

71.10 Cottonwood Wash, 50 lks. wide, 3 ft. deep, 200 ft. below ¼ sec. cor., drains S.45°W. about 3.50 chs. dist., thence S.20°E., from the NW.; ascend gradual SW. slope.

80.00 On gradual sandy SW. slope, 40 ft. above Cottonwood Wash,

Set an iron post, 3 ft. long, 3 ins. diam., 27 ins. in the ground, for cor. of Tps. 42 and 43 S., Rs.6 and 7 E., with brass cap marked

T42S
R6E | R7E
S36 | S31
S 1 | S 6
T43S

1934

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

Land, rolling mesa, sandstone ledges and breaks, and rolling bench land, with general southeasterly exposure and drainage.

Soil, shallow coarse sand and sandstone surface rock; 3rd rate.

Undergrowth, blackbrush, mountain rush, yellow top, oose, shadscale, weeds, and grass.

No timber.

Good grazing on mesa and bench land.

EAST BOUNDARY OF T.43 S., R.6 E.

From the cor. of Tps. 42 and 43 S., Rs. 6 and 7 E., heretofore described.

South, bet. secs. 1 and 6.

Descend gradually over gentle SW. slope of rolling bench land, through scattered short undergrowth.

Chains	
15.80	Cottonwood Wash, 50 lks. wide, 3 ft. deep, 60 ft. below Tp. cor., drains S.70°E.; ascend gradually along general E. slope of rolling bench land.
23.50	Draw, 30 ft. deep, from S.70°W., drains E. about 9.00 chs. dist. to Cottonwood Wash; ascend gradual NE. slope.
40.00	On gradual NE. slope, 45 ft. above Cottonwood Wash.
	Set an iron post, 3 ft. long, 1 in. diam., 12 ins. in the ground to solid rock, with a sandstone, 10x8x6 ins., marked X, deposited at base, and in a mound of stone to top, for ¼ sec. cor., with brass cap marked
	¼ S 1 | S 6 1934
61.20	Begin ascent over broken NE. slope of sandstone surface rock, on E. point of base of reef, bears NW. and S.20°E.
69.50	Top of ascent on E. point of reef, 115 ft. above ¼ sec. cor., slopes E. 2.00 chs. dist. to the base of E. point, and bears W. 1.00 ch. dist. to the base E. end of a high sandstone ledge, which bears NW. and SW.; descend gradually over broken rocky SE. slope.
70.60	Base of reef, bears N.20°E. and SW., thence over general E. slope of gently rolling land.
80.00	On general E. slope, 40 ft. below top of ascent on E. point of reef.
	Set an iron post, 3 ft. long, 2 ins. diam., 27 ins. in the ground, for cor. of secs. 1, 6, 7, and 12, with brass cap marked
	T43S R6 E | R7E S 1 | S 6 S12 | S 7 1934
	raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.
	Land, rolling and broken bench, with general easterly exposure and drainage.
	Soil, coarse loose sand, mixed with patches of rock; 3rd rate.
	Undergrowth, shadacale, blackbrush, yellow top, mountain rush, oose, weeds, and grass.
	No timber.
	Fair grazing land.
	South, bet. secs. 7 and 12.
	Descend gradually over general SE, slope of rolling bench

Chains	
	land, through scattered short undergrowth.
40.00	On gentle S. slope, 80 ft. below sec. cor.
	Set an iron post, 3 ft. long, 1 in. diam., 18 ins. in the ground to solid rock, with a sandstone, 10x8x6 ins., marked X, deposited at base, and in a mound of stone to top, for ¼ sec. cor., with brass cap marked

¼
S12 | S7
1934

41.10	North rim of a sandstone gulch, bears NW. and S.60°E.; descend abrupt SW. slope, over sandstone surface rock.
46.40	Sandstone gulch, 85 ft. below ¼ sec. cor., heads NW. about 7.50 chs. dist., and drains S.60°E.; ascend abrupt NE. slope.
51.10	South rim of gulch, 90 ft. above bottom, bears NW. and SE.; thence over gently rolling bench land.
63.10	Rim of breaks of Colorado River, bears N.30°E. and SW.; descend abrupt SE. slope.
66.00	Bottom of a short sandstone gulch, 80 ft. below rim, heads W. about 1.20 chs. dist., drains E. to Colorado River; ascend abrupt NE. slope of sandstone surface rock.
70.30	Rim of breaks, 80 ft. above gulch, bears N.70°W. and S.70°E.; thence over rolling bench land.
76.40	Rim of breaks of the Colorado River, bears N.30°E. and S.30°W.; descend abrupt SE. slope of broken sandstone surface rock.
79.60	On steep sloping sandstone surface rock, 95 ft. below rim of breaks, on top of a nearly perpendicular sandstone ledge, facing SE., 200 ft. high, on the right side of the Colorado River, bears N.35°E. and S.35°W.
	Set an iron post, 3 ft. long, 1 in. diam., 12 ins. in a hole drilled in solid sandstone, and in a mound of stone to top, for witness cor. to the meander cor. of frac. secs. 7 and 12, with brass cap marked

T43S
R6E | R7E
S12 | S 7
MC
WC
1934

79.80	The estimated true point for meander cor. of frac. secs. 7 and 12 falls on the inaccessible SE. face of nearly perpendicular face of a sandstone ledge, 200 ft. high, where it is impracticable to set a permanent cor.
	Land, rolling sandy bench, and sandstone breaks of the Colorado River, with general southeasterly exposure and drainage.
	Soil, shallow loose sand and sandstone surface rock; 3rd rate.

Chains.

Undergrowth, shadscale, blackbrush, yellow top, mountain rush, weeds, and grass.

No timber.

Fair grazing land.

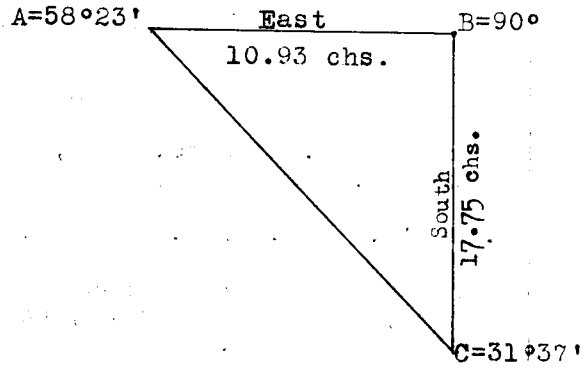
SOUTH BOUNDARY OF T.43 S., R.6 E.

From the cor. of Tps.43 and 44 S., Rs.5 and 6 E., which is an iron post, 3 ins. diam., set, marked, and witnessed as described in the official record of the survey of T.43 S., R.5 E. of this group.

East, bet. secs. 6 and 31.

Descend abruptly over sandstone surface rock and patches of coarse gravel and sand, through scattered short undergrowth.

3.00 Top of a high nearly vertical sandstone ledge, facing E., bears N.30°W. and S.30°E. The line to the E. of this point descends abruptly over inaccessible sandstone ledges and breaks, over which it is impracticable to chain, I therefore return to the Tp. cor. and determine the distance by triangulation as follows. Erect flag A at the cor. of Tps. 43 and 44 S., Rs. 5 and 6 E., and flag B on line to the East. From B, survey base line BC, South, 17.75 chs. dist., and erect flag C. From C, flags A-B subtend an angle of 31°37'. From A, flags B-C subtend an angle of 58°23'. Vertical angle from A to B is - 32°31'. All angles checked by three repetitions and base line double chained.



Distance by triangulation	10.93 chs.
Distance by return measurement	3.03 chs.
	7.90 chs.

7.90 Base of high sandstone ledges and breaks, bears N.30°W. and S.30°E.; thence over sandy river bar, covered with salt grass, locally known as Gunsight Bar.

10.93 Point B of triangulation at the W. edge of dense willows on the right bank of the Colorado River, 460 ft. below Tp. cor., bears N.10°W. and S.10°E

Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground, for witness cor. to the meander cor. of frac. secs. 6 and 31, with brass cap marked

Chains

T43S
S31
R6E — WC
S 6 MC
T44S

1934

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

From this cor. an old well, 12 ft. deep, 8 ft. diam., bears S.59°W., 2.00 chs. dist. Also an old water wheel, about 8 ft. in diam., in the W. edge of the river, bears North, 5.80 chs. dist.

11.43 True point for meander cor. of frac. secs. 6 and 31, on south boundary of township on the right bank of the Colorado River, falls on a sloping sandy bank, 10 ft. high, bears N.10°W. and S.10°E., which is subject to overflow, and where it is impracticable to set a permanent cor.

Land, sandstone ledges and surface rock, and sandy river bar, with general easterly exposure and drainage.

Soil, shallow sand and coarse gravel on sandstone surface rock, 4th rate; deep silt sand, 2nd rate, on river bar.

Undergrowth, blackbrush, yellow top, mountain rush, willows, weeds, and grass.

No timber.

Grazing, poor on sandstone breaks; good on river bar.

SUBDIVISION OF T.43 S., R.6 E.

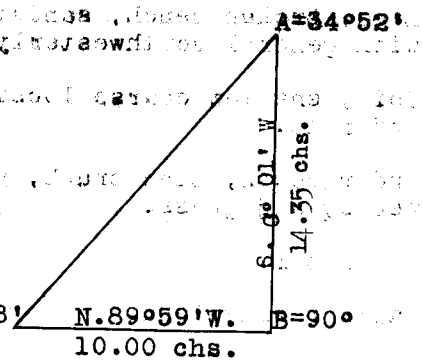
From the cor. of secs. 5, 6, 31, and 32, on the N. bdy. of the Tp., heretofore described.

S.0°01'W., bet. secs. 5 and 6.

Over sandstone surface rock and scattered patches of sand on top of broken mesa, near W. rim, through scattered short undergrowth.

4.70 Rim of mesa and top of a nearly vertical sandstone ledge, about 300 ft. high, bears N.10°W. and SE. about 10.00 chs. dist., thence S. Line to the S. of this point descends abruptly over inaccessible sandstone ledges and breaks of SW. face of mesa, over which it is impracticable to chain, I therefore determine the distance by triangulation as follows. Erect flag A at this point and flag B on line to the South. From B, survey base line BC, N.89°59'W, 10.00 chs. dist., and erect flag C. From C, flags A-B subtend an angle of 55°08'. From A, flags B-C subtend an angle of 34°52'. Vertical angle from A to B is - 37°. All angles checked by three repetitions and base line double chained.

Chains



Distance on line	4.70 chs.
Distance by triangulation	14.35 chs.
	19.05 chs.

19.05 Point B of triangulation at the base of SW. breaks of mesa, bears NW. and S.25°E.; thence along rolling sandy bench land on general W. slope, through scattered short undergrowth.

39.85 Bottom of draw 30 ft. deep, heads N.25°E. about 4.00 chs. dist., and drains SW.

40.00 On general W. slope of sandstone surface rock, at base of breaks of mesa, 675 ft. below rim of mesa, bears N.25°E. and S.25°E.

Set an iron post, 3 ft. long, 1 in. diam., 12 ins. in a hole drilled in solid sandstone, and in a mound of stone to top, for ¼ sec. cor., with brass cap marked

¼
S 6 | S 5
1934

53.50 Draw, 15 ft. deep, drains W. 2.50 chs. dist., thence S.

55.70 Ascend abrupt N. slope of W. point of breaks of mesa, bears E. and N.60°W., over sandstone surface rock.

57.90 Top of a steep sandstone spur, 70 ft. high, projects N.60°W. 3.00 chs. to end; descend abrupt SW. slope over sandstone surface rock.

63.90 Base of breaks of mesa and sandstone surface rock, bears N.20°W. and S.20°E., at the bottom of a bend in the same draw as noted at 53.50 chs. point, 20 ft. deep, drains SW.; thence over broken general W. slope near base of mesa, through patches of shallow sand and sandstone outcropings.

80.00 On general W. slope, 100 ft. below ¼ sec. cor., on sandstone outcrop.

Set an iron post, 3 ft. long, 1 in. diam., 12 ins. in a hole drilled in solid sandstone, and in a mound of stone to top, for cor. of secs. 5, 6, 7, and 8, with brass cap marked

T43S R6E
S 6 | S 5
S 7 | S 8
1934

Chains	
	Land, broken bench, sandstone surface rock and ledges, with general southwesterly exposure and drainage.
	Soil, shallow coarse loose sand and sandstone surface roc 3rd rate.
	Undergrowth, blackbrush, yellow top, mountain rush, oose, weeds, and grass.
	No timber.
	Fair grazing land.
	West, on a random line bet. secs. 6 and 7.
40.00	Set temp. ¼ sec. cor.
79.96	Intersect the W. bdy. of the Tp., 2 lks. N. of the cor. of secs. 1, 6, 7, and 12, which is an iron post, 1 in. diam., set, marked, and witnessed as described in the official record of the survey of T.43 S., R.5 E. of this group.
	Thence:
	N.89°59'E., on true line bet. secs. 6 and 7.
	Descend gradually over broken NE. slope of sandstone surface rock.
10.10	Sandstone draw, 110 ft. below sec. cor., drains North, about 8.50 chs. dist., thence easterly; ascend gradually over steep broken NW. slope of sandstone surface rock.
21.90	Top of ascent on N. slope of sandstone surface rock, 85 ft. above draw, bears N. and S.; descend gradually over broken NE. slope of bare sandstone surface rock.
25.80	Sandstone draw, 45 ft. deep, drains NE.
39.98	On NE. slope of bare sandstone surface rock, 125 ft. below top of ascent.
	Set an iron post, 24 ins. long, 1 in. diam., 14 ins. in a hole drilled in solid sandstone, for ¼ sec. cor., with brass cap marked
	$\frac{1}{4}\frac{S\ 6}{S\ 7}$
	1934
	No rock available for a supporting mound.
	From this cor. I take bearings as follows: The SE. point of a high mesa, bears N.1°09'E. about 42.00 chs. dist.; the SE. point of a butte about 250 ft high, on bare sandstone reef, bears S.59°W. about 19.00 chs. dist.
49.50	Base of sandstone surface rock, bears N., and S. about 10.00 chs. dist., thence S.60°E.; descend gradual E. slope of rolling sandy bench land, through scattered short undergrowth.
69.30	Bottom of Right Fork of Cane Wash, 120 ft. below ¼ sec. cor., drains S.15°E.; ascend gradual broken W. slope.

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SUBDIVISION OF T.43 S., R.6 E.

Chains	
72.40	Wash, 30 lks. wide, 2 ft. deep, drains S.25°W., 2.50 chs.dist. to Right Fork of Cane Wash.
79.96	The cor. of secs. 5, 6, 7, and 8, 50 ft. above the Right Fork of Cane Wash.
	Land, sandstone surface rock and sandy bench, with general northeasterly and southwesterly exposure and drainage.
	Soil, sandstone surface rock and shallow loose sand; 3rd rate.
	Undergrowth, yellow top, mountain rush, blackbrush, old man, oose,weeds, and grass.
	No timber.
	Fair grazing on sandy bench.
	S.0°01'W., bet. secs. 7 and 8.
	Over general W. slope of broken sandy bench land, through scattered short undergrowth.
13.50	Sandy draw, 40 ft. deep, drains W.
36.20	Sandy draw, 35 ft. deep, drains SW. about 6.50 chs. dist. to the Right Fork of Cane Wash.
40.00	On sandy W. slope, 160 ft. below sec. cor.
	Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground, for ¼ sec. cor., with brass cap marked ¼ S 7 | S 8 1934 raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.
46.30	Sandy draw, 20 ft. deep, drains W. about 4.00 chs. dist. to the Right Fork of Cane Wash.
64.50	East edge of a bend in the bottom of Right Fork of Cane Wash, 40 ft. below ¼ sec. cor., drains SW. from N.15°W.; ascend gradually over sandy N. slope.
77.00	North rim of slightly higher sandy bench, 30 ft. above bottom of Right Fork of Cane Wash, bears N.50°E. and S.70°W.; thence over gently rolling sandy bench.
80.00	On rolling bench land, 30 ft. above Right Fork of Cane Wash.
	Set an iron post, 3 ft. long, 2 ins. diam., 27 ins. in the ground, with a sandstone, 8x6x3 ins., marked X, deposited at base, for cor. of secs. 7, 8, 17, and 18, with brass cap marked T43S R6E S 7 | S8 S18 | S17 1934

SUBDIVISION OF T.43 S., R.6 E.

Chains	
	No other accessories available.
	From this cor. the SW. base of breaks of mesa bears N.61°E. about 24.00 chs. dist.
	Land, broken sandy bench, with general westerly exposure and drainage.
	Soil, shallow loose sand; 3rd rate.
	Undergrowth, mountain rush, yellow top, blackbrush, old man, oose, weeds, and grass.
	No timber.
	Good grazing land.

	S.89°59'W., on a random line bet. secs. 7 and 18.
40.00	Set temp. ¼ sec. cor.
79.84	Intersect W. bdy. of Tp., 2 lks. S. of cor. of secs. 7, 12, 13, and 18, which is an iron post, 2 ins. diam., set, marked, and witnessed as described in the official record of the survey of T.43 S., R.5 E. of this group.
	Thence:
	East, on true line bet. secs. 7 and 18.
	Descend gradually over SE. slope of rolling sandy bench land, through scattered short undergrowth.
17.30	Small draw, 25 ft. deep, drains S.15°E. A small seep of alkali water in the bottom of this draw, bears S.15°E. 5.00 chs. dist.
23.70	Spur, 30 ft. high, projects S.10°E.
34.00	Gulch, 3.00 chs. wide, 30 ft. deep, drains S.
39.92	On gentle SE. slope, 50 ft. below sec. cor.
	Set an iron post, 3 ft. long, 1 in. diam., 18 ins. in the ground to solid rock, with a sandstone, 10x8x6 ins., marked X, deposited at base, and in a mound of stone to top, for ¼ sec. cor., with brass cap marked
	¼ S 7 / S18
	1934
45.10	Right Fork of Cane Wash, 30 lks. wide, 2 ft. deep, in draw 35 ft. below ¼ sec. cor., drains S.20°W.; ascend gradually over broken W. slope.
68.10	West rim of sandy bench, 80 ft. above Right Fork of Cane Wash, bears N. and S.20°W.; thence over rolling sandy bench land.
79.84	The cor. of secs. 7, 8, 17, and 18, on sandy bench land.
	Land, rolling and broken sandy bench, with general southeasterly and southwesterly exposure and drainage.

Chains	
	Soil, shallow loose sand; 2nd rate.
	Undergrowth, mountain rush, blackbrush, yellow top, old man, oose, weeds, and grass.
	No timber.
	Good grazing land.
	S.0°01'W., bet. secs. 17 and 18.
	Over gentle S. slope of rolling sandy bench land, through scattered short undergrowth.
19.00	South rim of rolling bench land, bears N.60°E. and SW.; descend gradual broken S. slope of lower bench land.
38.20	Draw, 100 ft. below sec. cor., drains SW. 2.00 chs. dist. to the head of a sandstone gulch.
40.00	On sandstone rim at the head of gulch, bears W. and SE.
	Set an iron post, 3 ft. long, 1 in. diam., 8 ins. in the ground to solid rock, with a sandstone 8x8x6 ins., marked X, deposited at base, and in a mound of stone to top, for ¼ sec. cor., with brass cap marked
	¼ S18 | S17 1934
42.50	Base of descent in head of sandstone gulch, 60 ft. below ¼ sec. cor., slopes W. 60 lks. dist. to bottom of gulch, which drains southerly; ascend abrupt NW. slope.
45.40	East rim of gulch, bears NE. and S.30°W.; thence over nearly level bench, level with ¼ sec. cor., near E. rim.
49.90	East rim of same gulch, bears NW. and SE.; descend abrupt SW. slope.
53.50	Bottom of sandstone gulch, 95 ft. below rim, drains S.60°E. about 3.00 chs. dist., thence S.; ascend abrupt NE. slope.
56.80	Top of the west rim of gulch, 105 ft. above bottom, bears NW. and S.20°E.; thence over top of nearly level SE. point of bench.
58.40	North rim of breaks of Colorado River, bears N.80°W. and S.80°E.; descend abrupt broken S. slope over sandstone surface rock.
66.00	Bottom of same gulch, 165 ft. below rim, drains S.10°W.; thence along general SW. slope of sandstone surface rock.
68.25	On sloping sandstone surface rock on the E. side of mouth of gulch, and near the base of sandstone surface rock at the N. side of Cane Bar, bears N.60°W. and S.60°E.
	Set an iron post, 24 ins. long, 1 in. diam., 14 ins. in a hole drilled in solid sandstone, for witness cor. to the meander cor. of frac. secs. 17 and 18, with brass cap marked

Chains	
	T43S R6E S18 | S17 MC WC 1934
63.40	Base of sandstone surface rock, bears N.60°W. and S.60° 10 ft. below witness cor. to the meander cor. of frac. secs. 17 and 18; thence over sandy river bar, known as Cane Bar, through undergrowth of greasewood, willows, weeds; and grass:
75.88	True point for meander cor. of frac. secs. 17 and 18, falls on a sandy bank about 10 ft. high, in dense willo bears N.52°W. and S.62°E, which is subject to overflow, and where it is impracticable to set a permanent cor., the right bank of the Colorado River. Land, rolling and broken bench, and N. breaks of the Colorado River, with general southerly exposure and drainage. Soil, shallow loose sand and sandstone surface rock; 3rd rate. Deep silt sand, 2nd rate on river bar. Undergrowth, mountain rush, blackbrush, yellow top, oose weeds, and grass, and dense willows on river bank. No timber. Fair grazing land.
	--- From the cor. of secs. 13, 18, 19, and 24, on W. bdy of t township, which is an iron post, 3 ft. long, 2 ins. diam., set, marked, and witnessed as described in the official record of the survey of T.43 S., R.5 E. of this group. East, bet. secs. 18 and 19. Descend abrupt E. slope of breaks of Colorado River, over sandstone surface rock and ledges, and patches of shallow loose sand, through scattered short undergrowth.
6.80	Bottom of sandstone gulch, 80 ft. below sec. cor., heads NE. about 2.50 chs., drains S.20°E.; ascend gradual W. slope.
11.30	Top of a bare sandstone spur, 65 ft. above gulch, proje S.; descend gradual E. slope.
12.62	On top of a nearly vertical sandstone ledge, about 420 f high, facing SE., bears N.37°E. and S.15°W., on the right side of the Colorado River. Set an iron post, 3 ft. long, 1 in. diam., 14 ins. in a hole drilled in soild sandstone, and in a mound of ston to top, for witness cor. to the meander cor. of frac. secs. 18 and 19, with brass cap marked T43S R6E S18 | MC S19 | WC 1934

Chains	
	The line from this cor. passes over nearly vertical inaccessible wall of river, over which it is impracticable to determine the distance.
13.37	The estimated position for the meander cor. of frac. secs. 18 and 19, on the right bank of the Colorado River, falls on a nearly vertical sandstone wall where it is impracticable to reach the cor. point and set a permanent cor.
	Land, sandstone surface rock and ledges, with general easterly exposure and drainage.
	Soil, scattered patches of shallow loose sand and sandstone surface rock; 4th rate.
	Undergrowth, blackbrush, mountain rush, yellow top, oose, weeds, and grass.
	No timber.
	Poor grazing land.

	From the cor. of secs. 19, 24, 25, and 30, on the W. bdy. of the Tp., which is an iron post, 2 ins. diam., set, marked, and witnessed as described in the official record of the survey of T.43 S., R.5 E. of this group.
	East, bet. secs. 19 and 30.
	Descend gradual E. slope of sandstone surface rock and patches of loose sand, through scattered short undergrowth.
2.30	Shallow sandstone draw, 10 ft. deep, drains NE.; thence along a general N. slope.
7.26	On top of a nearly vertical sandstone ledge, about 530 ft. high, facing NE., bears N.10°W. and S.30°E., on the right side of the Colorado River.
	Set an iron post, 3 ft. long, 1 in. diam., 14 ins. in a hole drilled in solid sandstone, and in a mound of stone to top, for witness cor. to the meander cor. of frac. secs. 19 and 30, with brass cap marked
	T43S R6E S19 MC S30 WC 1934
	The line from this point passes over nearly vertical inaccessible wall of river over which it is impracticable to determine the distance.
8.26	The estimated position for the meander cor. of frac. secs. 19 and 30, on the right bank of the Colorado River, falls on a nearly vertical sandstone wall, where it is impracticable to reach the cor. point and set a permanent cor.
	Land, broken sandstone surface rock ledges, with general easterly exposure and drainage.
	Soil, scattered patches of loose sand and sandstone

SUBDIVISION OF T.43 S., R.6 E.

Chains	
	surface rock; 4th rate.
	Undergrowth, scattered patches of blackbrush, yellow top, mountain rush, weeds, and grass.
	No timber.
	Poor grazing land.

	From the cor. of secs. 25, 30, 31, and 36, on the W. bdy. of the Tp., which is an iron post, 2 ins. diam., set, marked, and witnessed as described in the official record of the survey of T.43 S., R.5 E. of this group.
	Descend gradually over general N. slope of rolling sandy bench land, through scattered short undergrowth.
5.00	Sandy ridge, 10 ft. below sec. cor., bears N.55°E. and S.55°W.; descend gradually over sandy SE. slope.
28.20	Rim of sandy bench, bears N.30°E. and SW.; descend abrupt SE. slope of breaks of Colorado River.
29.90	Top of a sloping sandstone ledge, facing SE., 70 ft. high, bears NE. and SW.; descend over broken SE. slope on sandstone surface rock.
40.00	On broken SE. slope of sandstone surface rock, 220 ft. below ridge,
	Set an iron post, 3 ft. long, 1 in. diam., 12 ins. in a hole drilled in sloid sandstone, and in a mound of stone to top, for ¼ sec. cor., with brass cap marked
	¼ S30/S31
	1934
59.10	On sandstone surface rock on top of a sloping sandstone ledge, 75 ft. high, facing SE., 175 ft. below ¼ sec. cor. bears N.60°E. and S.60°W., on the right side of the Colorado River.
	Set an iron post, 3 ft. long, 1 in. diam., 12 ins. in a hole drilled in solid sandstone, and in a mound of stone to top, for witness cor. to the meander cor. of frac. secs. 30 and 31, with brass cap marked
	T43S R6E S30 / WC S31 / MC 1934
	From this cor. the SE. end of a small rock island in the Colorado River, bears S.29°55'W. For intersecting bearing see that given on line bet. secs. 31 and 36, on the W. bdy. of the Tp., in the official record of the survey of T.43 S., R.5 E. of this group.
62.10	True point for the meander cor. of frac. secs. 30 and 31, falls on the W. end of a sand and gravel river bar, at base of sandstone ledge, bears S.62°W. and N.60°E., which is subject to overflow and where it is impracticable to set a permanent cor.

Chains

Land, rolling sandy bench, and sandstone surface rock, with general southeasterly exposure and drainage.

Soil, shallow loose sand and sandstone surface rock; 3rd rate.

Undergrowth, blackbrush, mountain rush, yellow top, oose, weeds, and grass.

No timber.

Grazing, good on W. portion; poor on E. portion.

The theoretical position of the cor. of secs. 29, 30, 31, and 32, falls in the Colorado River. To determine a point on line bet. secs. 29 and 30, I commence at the true point for the meander cor. of frac. secs. 30 and 31, which is East 62.10 chs. dist., from the cor. of secs. 25, 30, 31, and 36, on the W. bdy. of the Tp., and run on traverse line as follows:

S. 84°15'E., 8.09 chs.

N. 48°36' E., 13.13 chs. to:

Point on true line bet. secs. 29 and 30, which is an Easting of 80.00 chs. from the cor. of secs. 25, 30, 31, and 36, on the W. bdy. of the Tp., and N. 0°01' E., 7.87 chs. dist., from the theoretical point for the cor. of secs. 29, 30, 31, and 32. This is the true point for the meander cor of frac. secs. 29 and 30, on a sloping sandy bank, on the right bank of the Colorado River, which is subject to overflow and where it is impracticable to set a permanent cor., bears N. 60° E. and S. 48° W.

Thence:

N. 0°01' E., on true line bet. secs. 29 and 30, with distances counted from the true point for the meander cor. of frac. secs. 29 and 30,

Over sandy river bar, through undergrowth of dense willows,

0.43 Leave willows and enter scattered undergrowth of rabbit brush, greasewood, weeds, and grass, bears N. 65°E. and S.65° W.

1.00 On sand and gravel bar:

Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground, for witness cor. to the meander cor. of frac. secs. 29 and 30, with brass cap marked.

T43S R6E
S30 | S29
MC
WC

1934

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

Chains	
3.13	Leave river bar and ascend abrupt broken S. slope of sandstone surface rock, bears N. 65° E. and S. 65° W.
20.10	Ascent becomes more gradual, bears N. 20° E. and SW.
25.20	Rim of bench, 270 ft. above witness cor. to the meander cor. of frac. secs. 29 and 30, bears N. 20°E. and S. 30° thence over rolling bench land.
32.13	On rolling sandy bench land nearly level with rim, north of 40.00 chs. from position for cor. of secs. 29,30, 31 and 32.
	Set an iron post, 3 ft. long, 1 in. diam., 8 ins. in the ground, with a sandstone, 8x8x6 ins., marked X, deposited at base, and in a mound of stone to top, for ¼ sec. cor., with brass cap marked.

¼

S30 | S29

1934

36.13	Rim of bench, bears NW. and SE., descend abrupt broken NE slope of breaks of Colorado River.
42.52	On top of a nearly vertical sandstone ledge, 90 ft. below ¼ sec. cor., facing N., bears N. 87° E. and S. 72° W., at a point about 180 ft. directly above the true point for the meander cor. of frac. secs. 29 and 30, on the right side of the Colorado River.
	Set an iron post, 3 ft. long, 1 in. diam., 12 ins. in a hole drilled in solid sandstone, and in a mound of stone to top, for witness cor. to the meander cor. of frac. sec 29 and 30, with brass cap marked

WC
MC

T43S | R6E
S30 | S29

1934

The true point for the meander cor. of frac. secs. 29 and 30, on the right bank of the Colorado River, falls on the face of a nearly vertical sandstone ledge, where it is impracticable to set a permanent cor.

Land, sandstone breaks of the Colorado River, with general southerly and northerly exposure and drainage.

Soil, scattered patches of loose sand and sandstone surface rock; 4th rate.

Undergrowth, willows, greasewood, rabbit brush, weeds, and grass.

No timber.

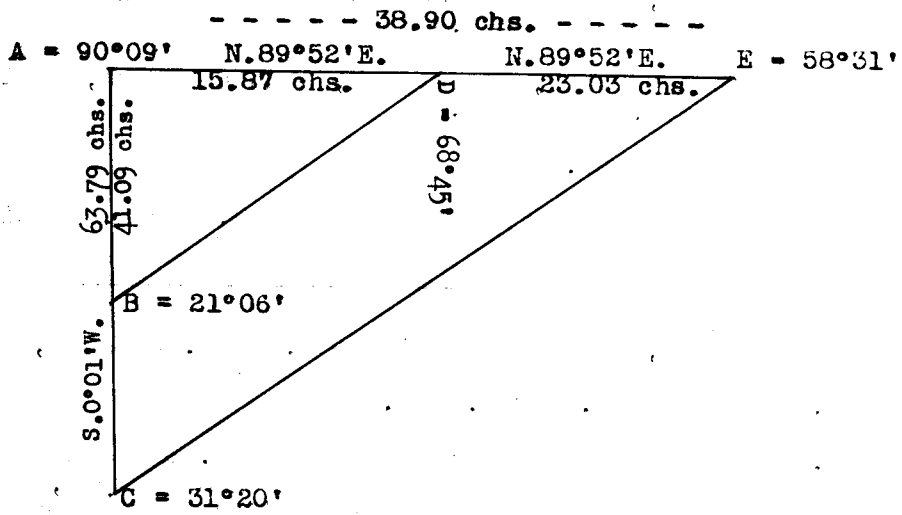
Poor grazing land.

From the cor. of secs. 4, 5, 32, and 33, on the N. bdy. of the Tp., heretofore described.

S.0°01'W., bet. secs. 4 and 5.

Ascend gradually along general E. slope of sandy bench land, through scattered short undergrowth.

Chains	
39.00	Base of E. breaks of mesa, bears N.25°W. and S.25°E. The line to the S. of this point ascends over inaccessible sandstone ledges and surface rock on NE. slope of breaks of mesa, over which it is impracticable to chain, I therefore return to the sec. cor. and determine the distance by triangulation as follows. Erect flag A at the cor. of secs. 4, 5, 32 and 33, and flags B and C on line to the S. From A, survey base line AD, N.89°52'E., 15.87 chs. dist., and erect flag D, and AE, N.89°52'E., 38.90 chs. dist., and erect flag E. From D, flags A-B subtend an angle of 68°45'. From B, flags A-D subtend an angle of 21°06'. From E., flags A-C subtend an angle 58°31'. From C, flags A-E subtend an angle of 31°20'. Vertical angle from A to B is +6°45'. Vertical angle from B to C is +14°25'. All angles checked by three repetitions and base lines double chained.



Distance by triangulation, A to B 41.09 chs.
Distance by triangulation, A to C 63.79 chs.

40.00 True point for ¼ sec. cor. falls on steep E. slope of sandstone surface rock, where it is impracticable to set a permanent cor.

41.09 Point B of triangulation on sloping sandstone surface rock of E. breaks of mesa, 325 ft. above sec. cor.

Set an iron post, 3 ft. long, 1 in. diam., 12 ins. in a hole drilled in solid sandstone, and in a mound of stone to top, for witness cor. to the ¼ sec. cor., with brass cap marked

WC
¼
S 5 | S 4
1934

Line to the S. of this cor. ascends over inaccessible sandstone ledges.

63.79 Point C of triangulation on top of rim of mesa, 395 ft. above the witness cor. to the ¼ sec. cor., bears SE., and NW. about 12.50 chs. dist., thence N.20°W.; ascend abrupt N. slope on top of mesa.

67.00 Top of abrupt ascent, bears W. and SE., thence over sandy rolling mesa land along a general E. slope, through scattered short undergrowth.

Chains

80.00 On gentle E. slope of rolling mesa land, 40 ft. above ri

Set an iron post, 3 ft. long, 2 ins. diam., 18 ins. in the ground to solid rock, with a sandstone 16x12x8 ins., deposited at base, and in a mound of stone to top for cor. of secs. 4, 5, 8 and 9, with brass cap marked

/mkd. X

T43S	R6E
S 5	S 4
S 8	S 9

1934

Land, broken bench, rolling, mesa, and sandstone breaks of mesa, with general easterly exposure and drainage.

Soil, shallow loose sand and sandstone surface rock and ledges; 3rd rate.

Undergrowth, blackbrush, mountain rush, yellow top, oose weeds, and grass.

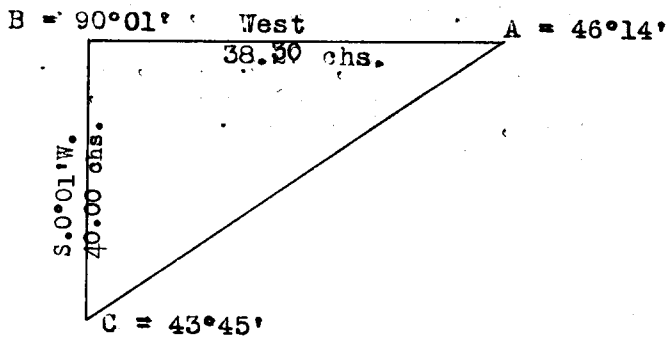
No timber.

Good grazing land on extreme N. and S. portions.

West, on a random line bet. secs. 5 and 8,

40.00 Set temp. ¼ sec. cor.

41.70 West rim of mesa; line to the W. descends over inaccessible sandstone ledges and breaks of mesa, over which it is impracticable to chain, I therefore determine the distance by triangulation as follows: Erect flag A at this point and flag B on line to the W. at the cor. of secs. 5, 6, 7 and 8. From B, survey base line BC, S.0°01'W., 40.00 chs. dist., and erect flag C. From C, flags A-B subtend an angle of 43°45'. From A, flags B-C subtend an angle of 46°14'. Vertical angle from A to B is -20° 30'. All angles checked by three repetitions and base line double chained.



Distance on line	41.70 chs.
Distance by triangulation	38.30 chs.
	80.00 chs.

80.00 Intersect the cor. of secs. 5, 6, 7 and 8.

Thence

East, on true line bet. secs. 5 and 8,

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Ascend abrupt broken W. slope, through scattered short undergrowth.

8.50 Base of inaccessible sandstone surface rock and ledges, bears N.60°W. and S.60°E.; ascend abruptly over steep SE. face of breaks of mesa by triangulation.

38.30 Point A of triangulation on rim of mesa, 955 ft. above sec. cor., bears N.60°W., and SE. 7.00 chs. dist., thence southerly; ascend gradually over gentle W. slope of rolling sandy mesa land, through scattered short undergrowth.

40.00 On gentle W. slope of rolling mesa land, 5 ft. above rim,

Set an iron post, 3 ft. long, 1 in. diam., 6 ins. in the ground to solid rock, with a sandstone, 10x8x6 ins., marked X, deposited at base, and in a mound of stone to top, for ¼ sec. cor., with brass cap marked.

$$\frac{1}{4}\ \frac{S\ 5}{S\ 8}$$

1934

66.00 Sandy rise, 50 ft. above ¼ sec. cor., bears N.20°E. and S.20°W.; descend gradual E. slope.

80.00 The cor. of secs. 4, 5, 8, and 9, 40 ft. below top of ascent.

Land, sandstone breaks and rolling mesa, with general easterly and westerly exposure and drainage.

Soil; shallow loose sand and sandstone surface rock; 3rd rate.

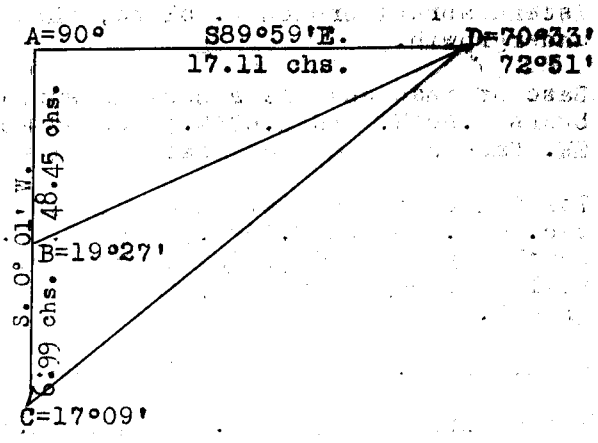
No timber.

Good grazing land on top of mesa.

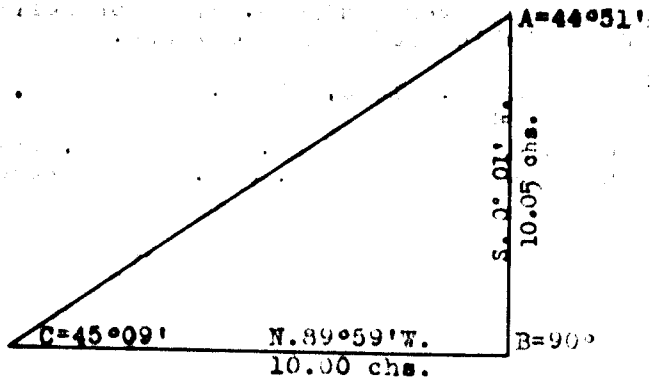
S.0°01'W., bet. secs. 8 and 9.

Along a general E. slope of gently rolling sandy mesa land, through scattered short undergrowth.

10.69 Rim of mesa, nearly level with secs. cor, bears NE. and SW. Line to the S. of this point descends over inaccessible SE. face of breaks of mesa, over which it is impracticable to chain, T therefore determine the distance by triangulation as follows. Erect flag A at the cor. of secs. 4, 5, 8, and 9, and flags B and C on line to the S. From A, survey base line AD, S.89°59'E., 17.11 chs. dist., and erect flag D. From D, flags A-B subtend an angle of 70°33'. From D, flags A-C subtend an angle of 72°51'. From B, flags A-D subtend an angle of 19°27'. From C, flags A-D subtend an angle of 17°09'. Vertical angle from A to B is - 4°15'. Vertical angle from B to C is + 27°15'. All angles checked by repetition and base line double chained.

Chains	
	
	Distance by triangulation, A to B 48.45 chs.
	Distance by triangulation, A to C 55.44 chs.
37.80	Approximate distance to the bottom of an inaccessible sandstone gulch, 720 ft. below rim, drains E.; ascend abrupt NE. face of breaks of mesa.
40.00	True point for the ¼ sec. cor, falls on inaccessible sandstone ledges, where it is impracticable to set a permanent cor.
48.45	Point B of triangulation on a narrow shelf on steep NE. face of breaks of mesa, 480 ft. above gulch.
	Set an iron post, 3 ft. long, 1 in. diam., 14 ins. in a hole drilled in solid sandstone, and in a mound of ston to top, for witness cor. to the ¼ sec. cor., with brass cap marked
	WC ¼ S 8 | S 9 1934
55.44	Point C of triangulation on rim of mesa, 240 ft. above witness ¼ sec. cor., bears N.70°W. and S.70°E.; thence over rolling mesa land.
65.60	Rim of mesa, bears W. and SE.; descend abrupt broken SE. slope of breaks of mesa over small sandstone ledges and surface rock.
69.95	Top of a nearly vertical sandstone ledge, 80 ft. below rim, facing southwesterly, bears N.70°W. and SE. Line t the S. of this point descends abruptly over high inacce ible sandstone ledge, over which it is impracticable to chain, I therefore determine the distance by triangulation as follows. Erect flag A at this point an flag B on line to the S. From B, survey base line BC, N.89°59'W., 10.00 chs. dist., and erect flag C. From C, A-B subtend an angle of 45°09'. From A, flags B-C subte an angle of 44°51'. Vertical angle from A to B is - 34°. All angles checked by three repetitions and base line double chained.

Chains



Distance on line	69.95 chs.
Distance by triangulation	10.05 chs.
	80.00 chs.

80.00 Point of triangulation on steep sandstone surface rock, sloping SW., at the base of nearly vertical sandstone ledge, bears NW. and SE.

Set an iron post, 24 ins. long, 1 in. diam., 14 ins. in a hole drilled in solid sandstone, for cor. of secs. 8, 9, 16, and 17, with brass cap marked

T43S R6E
S 8 | S 9
S17 | S16

1934

Land, broken sandstone surface rock and ledges, and rolling mesa land, with general easterly and southwesterly exposure and drainage.

Soil, shallow loose sand, 3rd rate, on mesa; none on remainder of mile.

Undergrowth, blackbrush, mountain rush, yellow top, ooze, weeds, and grass.

No timber.

Grazing, good on mesa top; none on remainder of mile.

West, on a random line bet. secs. 8 and 17.

40.00 Set temp ¼ sec. cor.

79.90 Intersect the cor. of secs. 7, 8, 17, and 18.

Thence:

East, on true line bet. secs. 8 and 17.

Over gently rolling sandy bench land, through scattered short undergrowth.

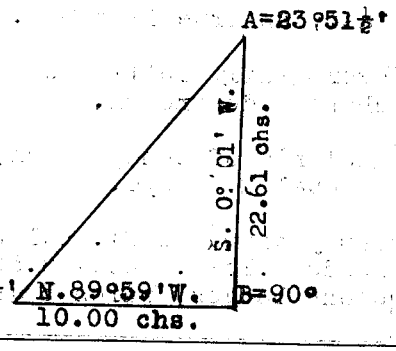
16.00 East rim of sandy bench, bears N.10°E. and S.10°W.; descend gradual E. slope.

18.60 Sandy draw, 20 ft. below sec. cor., drains S.10°E. and heads N.15°E. about 8.50 chs. dist., at the base of sandstone ledges, which bears N.30°W. and S.80°E.; ascend

Chains	
	gradually over gentle W. slope of rolling lower bench, over shallow red sand and shale.
39.95	On gentle W. slope, 40 ft. above draw,
	Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground, for ¼ sec. cor., with brass cap marked
	¼ S 8 / S17
	1934
	raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor.
47.70	The top of a bare sandstone dome, 30 ft. high, 1.50 chs. diam., bears S. 50 lks. dist.
58.70	Base of sandstone surface rock and ledges, bears S.30°E. and NW. about 8.50 chs. dist., thence westerly; ascend abrupt broken SW. slope of breaks of mesa, over nearly inaccessible sandstone ledges and surface rock.
79.90	The cor. of secs. 8, 9, 16, and 17, 490 ft. above ¼ sec. cor.
	Land, W. portion, rolling bench; and E. portion, sandsto surface rock and ledges, with general westerly exposure and drainage.
	Soil, shallow sand and shale, and sandstone surface rock; 3rd rate.
	Undergrowth, blackbrush, mountain rush, yellow top, ooss weeds, and grass.
	No timber.
	Good grazing land on bench.

S.0°01'W., bet. secs. 16 and 17.

Line to the S. of this cor. descends abruptly over inaccessible sandstone surface rock and ledges over which it is impracticable to chain. I therefore determin the distance by triangulation as follows. Erect flag A at the cor. of secs. 8, 9, 16, and 17, and flag B on line to the S. From B, survey base line BC, N89°59'W., 10.00 chs. dist., and erect flag C. From C, flags A-B subtend an angle of 66°08½'. From A, flags B-C subtend an angle of 23°51½'. Vertical angle from A to B is + 21° 14'. All angles checked by repetition and base line doubl chained.



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Chains	
	Distance by triangulation 22.61 chs. Distance by return measurement 8.81 chs. 13.80 chs.
13.80	Base of sandstone breaks and ledges, 585 ft. below sec. cor., bears E. and W. about 7.00 chs. dist., thence NW.; descend gradually over general S. slope of broken bench land, through scattered short undergrowth.
22.61	Point B of triangulation.
28.80	Small draw, 30 ft. deep, drains S.30°W.
33.20	Main draw, 80 ft. below base of ledges, drains SW.; ascend gradually over broken NW. slope of shallow loose sand and sandstone outcroppings.
40.00	On broken NW. slope, 30 ft. above draw.
	Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground, with a sandstone 14x10x6 ins., marked X, deposited at base, for ¼ sec. cor., with brass cap marked
	¼ S17 | S16 1934
	No other suitable accessories available.
49.00	Small draw, 1.50 chs. wide, 35 ft. deep, drains S.60°W.
65.00	Broken spur, 45 ft. above ¼ sec. cor., projects SW.; descend gradually over sandy SW. slope.
72.50	Draw, 30 ft. deep, drains SW., from N.80°E.
80.00	On sandy SW. slope, 45 below spur.
	Set an iron post, 3 ft. long, 2 ins. diam., 27 ins. in the ground, with a sandstone 8x5x5 ins., marked X, deposited at base, for cor. of secs., 16, 17, 20, and 21, with brass cap marked
	T43S R6E S17 | S16 S20 | S21 1934
	No other accessories available.
	Land, sandstone breaks and broken bench, with general southwesterly exposure and drainage.
	Soil, shallow loose sand and sandstone surface rock and ledges; 3rd rate.
	Undergrowth, mountain rush, yellow top, blackbrush, oose, weeds, and grass.
	No timber.
	Good grazing on bench land.

Chains	Remarks
	West, on true line bet. secs. 17 and 20, [illegible]
	Descend gradually over SW. slope of rolling sandy bench land, through scattered short undergrowth.
6.20	Draw, 30 ft. deep, drains S.15°E.
22.00	Rim of bench and top of N. breaks of Colorado River, bears N.75°W. and SE.; thence along general S. slope of sandstone surface rock, near rim.
32.60	Rim of bench, bears S.15°W. and N.15°E. about 1.20 chs. dist., thence easterly; thence over broken top of bench.
38.90	Same rim, bears N.70°W. and S.70°E.; descend gradually over broken SW. slope of sandstone breaks of Colorado River.
40.00	On steep SW. slope of sandstone surface rock, 65 ft. below sec. cor. Set an iron post, 3 ft. long, 1 in. diam., 12 ins. in a hole drilled in solid sandstone and in a mound of stone to top, for ¼ sec. cor., with brass cap marked ¼ S17/S20 1934
47.90	Sandstone draw, ft. deep, drains S.40°W.
62.40	Base of sandstone surface rock, 170 ft. below ¼ sec. cor., bears N.60°W. and S.60°E.; thence over nearly level sand and gravel river bar, [illegible] known as Cane Bar, through dense undergrowth of greasewood, rabbit brush, willows, weeds, and grass.
64.03	On sandy river bar, on the right side of the Colorado River. Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground, for witness cor. to the meander cor. of frac. secs. 17 and 20, with brass cap marked T43S R6E WC S17/MC S20 1934 raise a mound of stone, 2 ft. base, 1½ ft. high, E of cor.
71.83	True point for the meander cor. of frac. secs. 17 and 20 falls on a sloping sandy bank about 8 ft. high, bears N.63°W. and S.64°E., on the right bank of the Colorado River, which is subject to overflow and where it is impracticable to set a permanent cor. Land, sandy bench, sandstone breaks, and river bar, with general southwesterly exposure and drainage. Soil, E. portion, shallow loose sand and sandstone surface rock; 3rd rate. River bar, deep silt sand on gravel subsoil, 2nd rate. Undergrowth, yellow top, blackbrush, mountain rush,

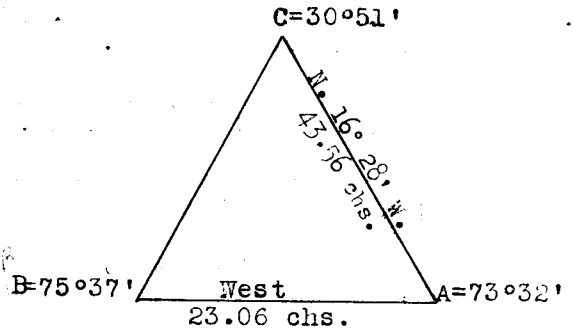
Chains	
	greasewood, willows, rabbit brush, weeds, and grass.
	No timber.
	Fair grazing land.

	From the cor. of secs. 16, 17, 20, and 21.
	S.0°01'W., bet. secs. 20 and 21.
	Descend gradual SW. slope of gently rolling sandy bench land, through scattered short undergrowth.
22.40	Rim of bench and top of N. breaks of the Colorado River, 80 ft. below sec. cor., bears N.60°W. and S.70°E.; descend over broken sandstone surface rock on S. slope of breaks of Colorado River.
37.01	On sloping sandstone surface rock at the W. side of the mouth of a small sandstone gulch, drains from N.10°E., 210 ft. below rim, on the right bank of the Colorado River, bears N.57°W. and S.57°E.
	Set an iron post, 24 ins. long, 1 in. diam., 15 ins. in a hole drilled in solid sandstone, for meander cor. of frac. secs. 20 and 21, with brass cap marked
	T43S | R6E S20 | S21 MC 1934
	Land, rolling sandy bench and sandstone breaks, with general southwesterly exposure and drainage.
	Soil, shallow loose sand and sandstone surface rock; 3rd rate.
	Undergrowth, blackbrush, mountain rush, yellow top, oose, weeds, and grass.
	No timber.
	Good grazing land on bench.

	From the cor. of secs. 3, 4, 33, and 34, on the N. bdy. of the Tp. heretofore described.
	S.0°02'W., bet. secs. 3 and 4.
	Descend abrupt SE. slope of broken sandstone surface rock and ledges.
25.00	Base of sandstone surface rock and ledges, bears NE. and SW.; descend gradually over general S. slope of sandy bench land with scattered sandstone outcroppings.
40.00	On S. slope of sandstone outcrop, 645 ft. below sec. cor.
	Set an iron post, 3 ft. long, 1 in. diam., 12 ins. in a

Chains	
	hole drilled in solid sandstone, and in a mound of stone to top, for ¼ sec. cor., with brass cap marked
	¼ S 4 | S 3 1934
46.80	Draw, 50 ft. deep, drains W. from NE.; thence over very broken land.
53.50	Bend in same draw, 50 ft. deep, drains S.70°W. from N.20°W.
56.00	The W. base of the W. one of two sandstone buttes, 75 ft. high, bears E. 1.50 chs. dist.
69.00	Bend in same draw as last, 50 ft. deep, drains SW. from N.30°W.; ascend gradually over broken NW. slope.
75.00	Base of inaccessible sandstone ledges at a point of breaks of mesa, bears SW. and S.60°E. about 6.00 chs. dist thence northeasterly, Line to the S. of this point ascends abruptly over inaccessible N. slope of sandstone ledges and surface rock on point of breaks of mesa, over which it is impracticable to chain, I therefore offset around the W. base of breaks as follows: S.89°56'W., 3.41 chs. S.0°02'W., 5.00 chs. N.89°56'E., 1.59 chs. dist. to;
80.00	Point on true line bet. secs. 4 and 9, which is S.89°56'W. 1.82 chs. dist., from the true point for cor. of secs. 3, 4, 9, and 10, at the base of a nearly vertical sandstone ledge, 50 ft. above bend in draw at 69.00 chs., bears S. and N. 2.00 chs. dist., thence NE. Set an iron post, 3 ft. long, 2 in. diam., 15 ins. in the ground, with a sandstone 10x8x6 ins., marked X, deposited at base, and in a mound of stone to top, for witness cor. to the cor. of secs. 3, 4, 9, and 10, with brass cap marked
	T43S R6E S 4 | S 3 ——WC S 9 | S10 1934
	True point for the cor. of secs. 3, 4, 9, and 10, falls on steep N. slope of inaccessible point of mesa, where it is impracticable to set a permanent cor.
	Land, broken bench, and sandstone surface rock and ledges, with general southerly exposure and drainage.
	Soil, shallow loose sand and sandstone surface rock; 3rd rate.
	Undergrowth, blackbrush, yellow top, mountain rush, oose, weeds, and grass.
	No timber.
	Fair grazing land on bench.

Chains	
	From the witness cor. to the cor. of secs. 3, 4, 9, and 10, which is S.89°56'W., 1.82 chs. dist. from the true point for said cor. West, on random line bet. secs. 4 and 9, with distances counted from the true point for cor. of secs. 3, 4, 9, and 10.
39.93	Leave flag point.
40.00	Set temp ¼ sec. cor.
47.60	Base of inaccessible sandstone breaks of mesa over which it is impracticable to chain, I therefore return to the 39.93 chs. point and determine the distance by triangulation as follows. Erect flag A at the 39.93 chs. point and flag B on line to the W. From A, survey base line AC, N.16°28'W., 43.56 chs. dist., and erect flag C. From C, flags A-B subtend an angle of 30°51'. From B, flags A-C subtend an angle of 75°37'. Vertical angle from A to B is + 37°30'. All angles checked by three repetitions and base line double chained.



Distance on line	39.93 chs.
Distance by triangulation	23.06 chs.
	62.99 chs.

62.99	Point B of triangulation; thence by chaining.
80.10	Intersect N. and S. line, 9 lks. N. of cor. of secs. 4, 5, 8, and 9.
	Thence:
	N.89°56'E., on true line bet. secs. 4 and 9.
	Descend gradual E. slope of rolling sandy mesa land, through scattered short undergrowth
17.11	East point of rim of mesa, 40 ft. below sec. cor., bears NW. and SW.; descend abruptly over inaccessible sandstone ledges and steep surface rock on E. face of breaks by triangulation.
32.50	Base of sandstone breaks, bears N.15°W. and S.15°E.; descend gradually over general E. slope of sandy bench land, through scattered short undergrowth.
40.05	On broken E. slope, 1180 ft. below rim of mesa.
	Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground, for ¼ sec. cor., with brass cap marked

$$\frac{1}{4}\ \frac{S\ 4}{S\ 9}$$

1934

SUBDIVISION OF T.43 S., R.6 E.

Chains	
	raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor.
41.00	Right bank of channel of Last Chance Creek, 8 ft. high, bears N.20°W. and S.20°E.
41.30	Last Chance Creek, a stream of alkali water, 4 lks. wide, ½ in. deep, 20 ft. below ¼ sec. cor., drains S.20°E.
42.70	Left bank of channel of Last Chance Creek, 8 ft. high, bears N.15°W. and S.20°E.; thence over sandy bottom land.
73.00	Sandy draw, 10 ft. deep, drains S.70°W. about 12.50 chs. dist. to Last Chance Creek.
73.40	Leave bottom lands, bears N.70°W. and S.60°W.; ascend gradual broken NW. slope, over sandstone outcroppings.
78.28	The witness cor. to the cor. of secs. 3, 4, 9, and 10, at the base of nearly vertical sandstone ledge, 50 ft. high, facing W., 75 ft. above bottom of Last Chance Creek, bears N. and S.
80.10	The true point for the cor. of secs. 3, 4, 9, and 10, on steep inaccessible N. face of point of mesa.
	Land, rolling mesa, sandstone breaks, broken bench, and nearly level bottom land.
	Soil, shallow loose sand and sandstone surface rock; 3rd rate; and deep silt sand on bottom land, 2nd rate.
	Undergrowth, blackbrush, yellow top, mountain rush, oose, weeds, and grass.
	No timber.
	Fair grazing on mesa, bench, and bottom lands.
	S.0°02'W., bet. secs. 9 and 10.
	The line to the S. of true point for cor. of secs. 3, 4, 9, and 10, follows along the W. face of inaccessible sandstone ledges and breaks of mesa over which it is impossible to project line. I therefore commence at the witness cor. to the cor. of said secs., which is S.89°56'W. 1.82 chs. dist. from the true cor. point, and run on an offset line near base of ledges as follows:
	S.89°56'W., 1.59 chs.
	S.0°02'W., 12.40 chs.
	N.89°56'E., 3.41 chs. to:
12.40	Point on true line at base of sandstone ledges, bears N.10°W. and S.20°E.
	Thence, S.0°02'W., on true line, over broken SW. slope of bench land, through scattered short undergrowth.
25.20	Last Chance Creek, which is a stream of alkali water, 6 lks. wide, 1 in. deep, in sandstone gulch, 1.20 chs. wide, 20 ft. deep, 120 ft. below base of ledges, drains S.60°E.
28.12	The NW. cor. of an old rock house, bears S.89°10'E., 1.44 chs. dist.

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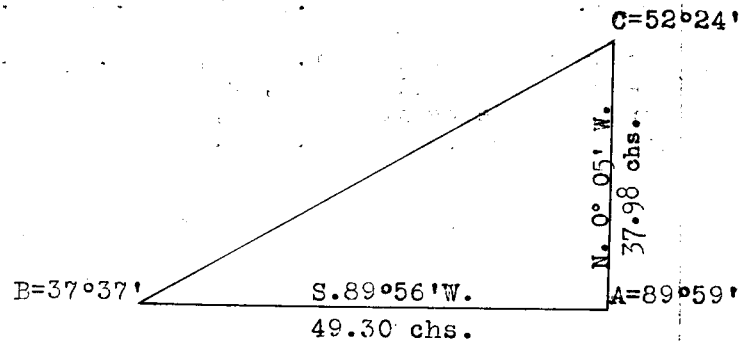
Chains	
33.00	Rim of gulch, facing S., bears N.70°E. and S.70°W.; descend abrupt SE. slope.
35.20	Last Chance Creek, which is a stream of alkali water, 6 lks. wide, 1 in. deep, in bottom of gulch, 35 ft. below rim, drains W. 2.00 chs. dist., thence SE.; continue down general bottom of gulch on the E. side of stream.
37.00	Sandstone spur, 20 ft. high, projects W. 1.00 ch. dist. to end.
39.20	Recross Last Chance Creek, drains SE. about 3.50 chs. dist., thence southerly; ascend abruptly.
40.00	True point for ¼ sec. cor. falls on NE. face of breaks, where it is impracticable to set a permanent cor.
40.37	On rim of gulch at the top of a broken sandstone ledge, 50 ft. high, facing NE., bears NW. and S.30°E. Set an iron post, 3 ft. long, 1 in. diam., 8 ins. in the ground to solid rock, with a sandstone 10x10x8 ins., marked X, deposited at base, and in a mound of stone to top, for witness ¼ sec. cor., with brass cap marked WC ¼ S 9 | S10 1934 Thence over rolling bench land, near rim of gulch.
44.60	West rim of Last Chance Creek, bears NE. and S.30°W.; thence along steep E. slope of sandstone surface rock.
48.30	Same rim, bears N.30°W. and S.70°E.; thence over general E. slope of broken bench land.
68.30	Draw, 35 ft. deep, from N.60°W., drains N.75°E. about 8.50 chs. dist. to Last Chance Creek.
80.00	On gentle E. slope, 30 ft. above witness ¼ sec. cor. Set an iron post, 3 ft. long, 2 ins. diam., 6 ins. in the ground to solid rock, with a sandstone, 8x6x6 ins., marked X, deposited at base, and in a mound of stone to top, for cor. of secs. 9, 10, 15, and 16, with brass cap marked T43S R6E S 9 | S10 S16 | S15 1934 Land, broken bench and sandstone surface rock, with general southwesterly and easterly exposure and southeasterly drainage. Soil, shallow loose sand and sandstone surface rock; 4th rate. Undergrowth, blackbrush, yellow top, mountain rush, oose, weeds, and grass. No timber.

Chains	
	Fair grazing land.
	S.89°56'W., on a random line bet. secs. 9 and 16.
35.95	Set temp. witness ¼ sec. cor.
36.50	Base of inaccessible sandstone ledges and E. face of breaks of mesa, over which it is impracticable to chain, I therefore return to the sec. cor. and determine the distance by triangulation as follows. Erect flag A at the cor. of secs. 9, 10, 15, and 16, and flag B on line to the W. From A, survey base line AC, N.0°05'W., 37.98 chs. dist. and erect flag C. From C, flags A-B subtend an angle of 52° 24'. From B, flags A-C subtend an angle of 37°37'. Vertical angle from A to B is + 18°45'. All angles checked by three repetitions and base line double chained



	Distance determined by triangulation 49.30 chs.
49.30	Point B of triangulation, thence by chaining.
75.90	Leave flag point.
77.50	From this point line descends abruptly over nearly vertical inaccessible sandstone ledge, over which it is impracticable to chain, I therefore return to the 75.90 chs: point and run traverse line as follows:
	N.18°W., 13.91 chs. dist., to a point on line bet. secs. 8 and 9, thence:
	S.0°01'W., 13.07 chs. (distance determined as shown on line bet. secs. 8 and 9) to:
80.20	The cor. of secs. 8, 9, 16, and 17.
	The course of this mile therefore is S.89°57'E. and the distance is 80.20 chs.
	Thence:
	S.89°57'E., on true line bet. secs. 9 and 16.
	Ascend abruptly over nearly vertical sandstone ledge, facing SW.
2.70	Top of a nearly vertical sandstone ledge, 450 ft. above sec. cor., and rim of mesa top, bears N.15°W., and S.15°E. 1.50 chs. dist., thence easterly; thence over broken top of mesa near the S. rim, through scattered short undergrowth.
30.90	Rim of mesa at the top of a high nearly vertical sandstone ledge, facing easterly, bears N.30°W., and S. about 6.00 chs. dist. to the SE. point of top of mesa, thence

Chains.	
	N.80°W.; descend abrupt E. face of breaks of mesa, over inaccessible sandstone ledges and surface rock by triangulation.
40.10	True point for the ¼ sec. cor. falls on the E. face of a high sandstone ledge, where it is impracticable to set a permanent cor.
43.70	Base of sandstone ledges and surface rock, bears NE. and S.30°E.; descend gradually over broken E. slope of sandy bench land.
44.25	On broken E. slope, 970 ft. below rim of mesa, near base of ledges.
	Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground, for witness cor. to the ¼ sec. cor., with brass cap marked
	$$WC\ \tfrac{1}{4}\ \frac{S\ 9}{S16}$$
	1934
	raise a mound of stone, 2½ ft. base, 2 ft. high, N. of cor.
46.80	Draw, 30 ft. deep, drains N.60°E.
63,30	Draw, 25 ft. deep, drains NE.
80.20	The cor. of secs. 9, 10, 15, and 16, 145 ft. below the witness cor. to the ¼ sec. cor.
	Land, broken mesa, sandstone breaks, and broken bench, with general southerly and easterly exposure and drainage.
	Soil, shallow sand and sandstone surface rock; 3rd rate.
	Undergrowth, blackbrush, yellow top, mountain rush, oose, weeds, and grass,
	No timber.
	Grazing, none on W. portion; and fair on E. portion.
	S.0°02'W., bet. secs. 15 and 16.
	Ascend gradually along a general E. slope of sandy broken bench land, through scattered short undergrowth.
6.00	Draw, 10 ft. deep, drains E.
27.50	Draw, 3.00 chs. wide, 30 ft. deep, drains E.
39.01	Leave flag point.
40.00	On broken E. slope, 40 ft. above sec. cor., on the N. side of a small draw.
	Set an iron post, 3 ft. long, 1 in. diam., 8 in. in the ground to solid rock, with a sandstone, 10x8x8 ins., marked X, deposited at base, and in a mound of stone to top, for ¼ sec. cor., with brass cap marked

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Chains	
	¼ S16 | S15 1934
40.80	Small draw, 20 ft. deep, drains N.60°E.
53.50	Base of high sandstone ledges and N. face of breaks of mesa, bears N.75°E., and W. about 10.00 chs. dist., thence northerly. The line to the S. of this point ascends abruptly over inaccessible sandstone ledges and surface rock, over which it is impracticable to chain, I therefore return to the 39.01 chs. point and traverse around E. point of breaks of mesa as follows: S.71°30'E., 35.49 chs. South, 29.73 chs., to point on true line bet. secs. 15 and 22, which is East, 33.68 chs. dist., from true point for cor. of secs. 15, 16, 21, and 22, thence: West, 28.21 chs. dist., to a point which is East, 5.47 chs. dist., from the true point for cor. of secs. 15, 16, 21, and 22.
	Approximate dist. to topography along true line is as follows:
65.00	Approximate distance to top of N. rim of mesa, about 860 ft. above ¼ sec. cor., bears N.70°W. and S.70°E.; thence over nearly level mesa land.
74.00	Approximate distance to the S. rim of mesa, bears N.25°E. and S.25°W.; descend abruptly over inaccessible SE. face of a nearly vertical sandstone ledge.
80.00	True point for cor. of secs. 15, 16, 21, and 22, falls on the SE. face of a nearly vertical sandstone ledge where it is impossible to reach the cor. point and set a permanent cor. Therefore, East, 5,47 chs. dist. from the true point for cor. of secs. 15, 16, 21, and 22, at the base of sandstone ledges, bears N.20°E. and S.20°E. Set an iron post, 3 ft. long, 2 ins. diam., over a cross marked on solid sandstone, in a large mound of stone to top, for witness cor. to the cor. of secs. 15, 16, 21, and 22, with brass cap marked T43S R6E S16 | S15 WC —— S21 | S22 1934 Land, broken bench, rolling mesa, and sandstone ledges and surface rock, with general easterly exposure and drainage. Soil, shallow loose sand and sandstone surface rock and ledges; 4th rate. Undergrowth, blackbrush, mountain rush, yellow top, ooze, weeds, and grass. No timber. Good grazing land on N. portion; poor on S. portion.

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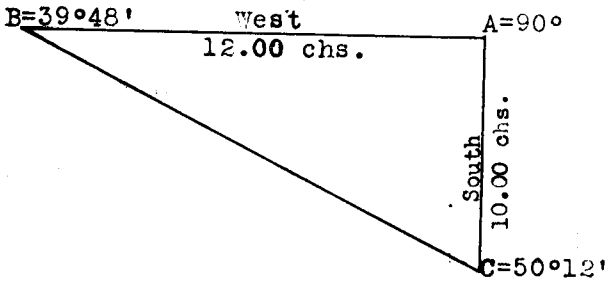
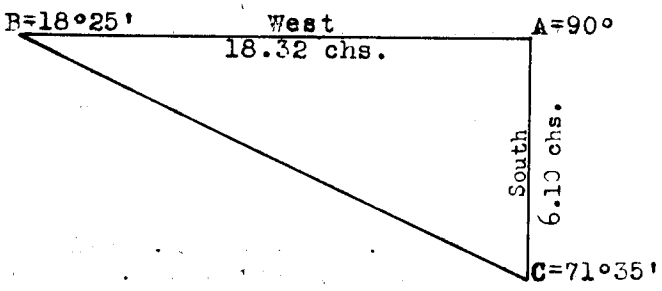
Chains	
	West, on a random line bet. secs. 16, and 21.
	The true point for the cor. of secs. 15, 16, 21, and 22, which is West, 5.47 chs. dist., from the witness cor. to the cor. of said secs., falls on the E. face of a nearly vertical sandstone ledge where it is impossible to reach the cor. point. I therefore commence at a point, East, 10.84 chs. dist. from the true point for sec. cor. and determine the distance by triangulation to the E. rim of top of mesa as follows. Erect flag A at this point and flag B on line to the West. From A, survey base line AC, South, 10.00 chs. dist., and erect flag C. From C, flags A-B subtend an angle of 50°12'. From B, flags A-C subtend an angle of 39°48'. Vertical angle from A to B is + 42°12'. All angles checked by three repetitions and base line double chained.



Distance by triangulation	12.00 chs.
Distance from point A to the true point for cor. of secs. 15, 16, 21, and 22,	10.84 chs.
	1.16 chs.

1.16	Point B of triangulation; thence by chaining.
30.99	The line to the W. of this point passes over inaccessible sandstone ledges and breaks of a cove in mesa, over which it is impracticable to chain. I therefore determine the distance across cove by triangulation as follows. Erect flag A at this point and flag B on line to the W. From A, survey base line AC, South, 6.10 chs. dist., and erect flag C. From C, flags A-B subtend an angle of 71°35'. From B, flags A-C subtend an angle of 18°25'. Vertical angle from A to B is 0°. All angles checked by three repetitions and base line double chained.

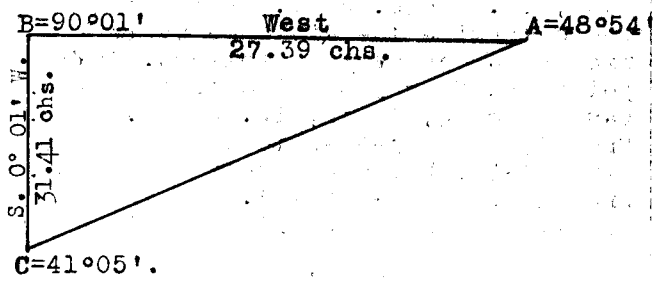


Distance on line	30.99 chs.
Distance by triangulation	18.32 chs.
	49.31 chs.

49.31	Point B of triangulation; set temp. witness ¼ sec. cor., thence by chaining.
52.77	West rim of broken point of mesa; the line to the W. descends over inaccessible sandstone ledges and breaks over which it is impracticable to chain, I therefore determine the distance by triangulation as follows.

Chains

Erect flag A at this point and flag B on line to the W., at the cor. of secs. 16, 17, 20, and 21. From B, surv base line BC, S.0°01'W., 31.41 chs. dist., and erect flag C. From C, flags A-B subtend an angle of 41°05'. From A, flags B-C subtend an angle of 48°54'. Vertical angle from A to B is - 29°32'. All angles checked by repetition and base line double chained.



Distance on line	52.77 chs.
Distance by triangulation	27.39 chs.
	80.16 chs.

80.16 Point B of triangulation at the cor. of secs. 16, 17, 20, and 21.

Thence:

East, on true line bet. secs. 16 and 21.

Ascend gradual SW. slope of sandy bench land, through scattered short undergrowth.

10.50 Base of inaccessible sandstone ledges and breaks of SW. face of point of mesa, bears NW. and SE.; ascend abruptly over breaks by triangulation.

27.39 Point A of triangulation; top of SW. rim of point of mesa 1035 ft. above sec. cor., bears NW. and SE.; thence over broken top of point of mesa.

30.85 On top of NW. rim of point of mesa at point B of triangul tion, bears NW. and SE., mark a cross on solid sandstone over which:

Set an iron post, 3 ft. long, 1 in. diam., in a large mound of stone to top, for witness cor. to the ¼ sec. cor., with brass cap marked

$$\frac{1}{4}\ \frac{S16}{S21}\ WC$$

1934

Line to the E. of this cor. follows along inaccessible sandstone ledges, near the S. rim of a cove in mesa, thence by triangulation

40.08 True point for the ¼ sec. cor. falls on N. face of inaccessible sandstone ledges and breaks of cove, where it is impracticable to set a permanent cor.

49.17 Point A of triangulation; rim of island mesa, nearly level with witness cor. to the ¼ sec. cor., bears SW., and N. about 6.00 chs. dist., thence W.; thence over broken top of island mesa. This island mesa is nearly inaccessible, the top of which could only be reached by the aid of ropes.

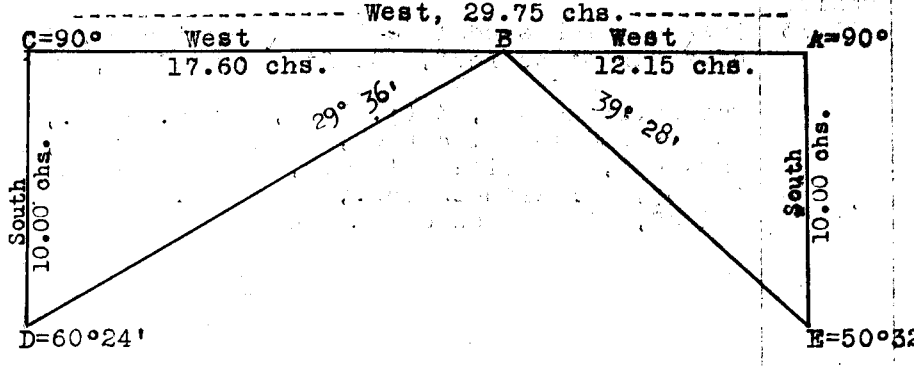
Chains	
79.00	Point B of triangulation; East rim of island mesa, bears N.10°E. and S.; descend abruptly over inaccessible ledges about 620 ft. high.
80.16	True point for cor. of secs. 15, 16, 21, and 22, on face of inaccessible sandstone ledge.
	Land, sandy bench, broken mesa, and sandstone breaks, with general southwesterly and northwesterly exposure and drainage.
	Soil, shallow loose sand sandstone surface rock; 4th rate.
	Undergrowth, blackbrush, yellow top, mountain rush, oose, weeds, and grass.
	No timber.
	Poor grazing land.
	East, on true line bet. secs. 15 and 22.
	The true point for the cor. of secs. 15, 16, 21, and 22, falls on inaccessible face of a sandstone ledge. I therefore commence at the witness cor. to the cor. of said secs., with distances counted from true point for cor.
5.47	The witness cor. to the cor. of secs. 15, 16, 21, and 22, at the base of a sandstone ledge, facing E., 620 ft. high, bears N.20°E. and S.20°E.; descend abrupt broken E. slope, over sandstone outcroppings, through scattered short undergrowth.
14.40	Base of abrupt descent, bears N. and S.; thence descend gradual E. slope.
39.40	Sandstone gulch, 440 ft. below witness cor. to the cor. of secs. 15, 16, 21, and 22, drains S., ascend abrupt SW. slope of sandstone surface rock.
40.00	On SW. slope of bare sandstone surface rock, 35 ft. above gulch.
	Set an iron post, 3 ft. long, 1 in. diam., 12 ins. in a hole drilled in solid sandstone, and in a mound of stone to top, for ¼ sec. cor., with brass cap marked
	¼ S15 / S22
	1934
	Ascend gradual SW. slope.
42.00	Top of a bare sandstone spur, 10 ft. above ¼ sec. cor., projects S.; descend gradual E. slope.
43.26	On sloping sandstone surface rock at the top of a sandstone ledge, 150 ft. high, facing SE., bears N.23°E. and S.25°W., on the right side of the Colorado River.
	Set an iron post, 3 ft. long, 1 in. diam., 14 ins. in a hole drilled in solid sandstone, and in a mound of stone to top, for witness cor. to the meander cor. of frac. secs. 15 and 22, with brass cap marked

Chains	
	T43S R6E S15 / MC S22 / WC 1934
45.26	True point for the meander cor. of frac. secs. 15 and 22, on the right bank of the Colorado River, falls on a sloping sandy bank, about 10 ft. high, at the N. end of a river bar, bears N.17°E. and South, which is subject to overflow and where it is impracticable to set a permanent cor. Land, broken bench, with general easterly exposure and drainage. Soil, shallow loose sand and sandstone surface rock; 4th rate. Undergrowth, blackbrush, yellow top, mountain rush, oose, weeds, and grass. No timber. Poor grazing land.
	--- From the cor. of secs. 15, 16, 21, and 22. S.0°02'W. bet. secs. 21 and 22. The true cor. point of secs. 15, 16, 21, and 22, which is West, 5.47 chs. dist. from the witness cor. to the cor. of said secs., falls on inaccessible face of high sandstone ledges, and the true line follows along the E. face of ledges where it is impossible to project a line, I therefore commence at a point East, 16.42 chs. dist. from the true point for cor. and run on an offset line along broken E. slope near base of ledges as follows: S.0°02'W., 40.00 chs. West, 16.42 chs. to:
40.00	Point on true line on steep broken E. slope near base of ledges, nearly level with witness cor. to the cor. of secs. 15, 16, 21, and 22, mark a cross on solid sandstone over which: Set an iron post, 3 ft. long, 1 in. diam., in a large mound of stone, for ¼ sec. cor., with brass cap marked ¼ S21 | S22 1934 From this cor. the base of inaccessible sandstone ledges, which bears N.30°E. and S.30°W., bears N., 1.50 chs. dist. Thence, S.0°02'W., on true line, over E. slope, through scattered short undergrowth.
59.90	Draw, 160 ft. below ¼ sec. cor., drains East, 1.20 chs. dist., thence N.20°E., about 8.00 chs. dist., thence easterly; ascend abrupt broken NE. slope.

Chains	
71.33	Base of high sandstone ledges and inaccessible breaks of a sandstone reef, 130 ft. above draw, bears NW. and SE.,
	Set an iron post, 3 ft. long, 2 ins. diam., 14 ins. in the ground to solid rock, with a sandstone, 10x8x8 ins., marked X, deposited at base, and in a mound of stone to top, for witness cor. to the cor. of secs. 21, 22, 27, and 28, with brass cap marked
	T43S R6E S21 | S22 S28 | S27 WC 1934
	Thence over inaccessible NE. face of breaks of reef.
80.00	True point for cor. of secs. 21, 22, 27, and 28, falls on the top of a high inaccessible sandstone reef, 420 ft. above witness cor., bears N.30°W. and S.30°E., where it is impossible to reach the cor. point and set a permanent cor.
	Land, sandstone breaks and broken bench, with general easterly exposure and drainage.
	Soil, shallow loose sand and sandstone surface rock; 4th rate.
	Undergrowth, blackbrush, yellow top, mountain rush, shadscale, weeds, and grass.
	No timber.
	Poor grazing land.
	West, on true line bet. secs. 21 and 28.
	True point for cor. of secs. 21, 22, 27, and 28, falls on the top of a high inaccessible sandstone reef, I therefore commence at the witness cor. to the cor. of said secs., which is N.0°02'E., 8.67 chs. dist. from the true point for cor., and run on offset lines as follows over broken land, near base of reef, through scattered short undergrowth.
	East, 12.00 chs.
	S.0°02'W., 8.67 chs. to a point which is East, 12.00 chs. dist. from the true point for cor. of secs. 21, 22, 27, and 28; thence, West, by triangulation over inaccessible breaks of sandstone reef as follows. Erect flag A at this point and designate a sharp point of rock on top of reef on line to the W. as B. Erect flag C on line to the W. from B. From A, survey base line AE, South, 10.00 chs. dist., and erect flag E. From C, survey base line CD, South, 10.00 chs. dist., and erect flag D. From B, flags AE subtend an angle of 39°28'. From E, flags A-B subtend an angle of 50°32'. From B, flags C-D subtend an angle of 29°36'. From D, flags B-C subtend an angle of 60°24'. Vertical angle from A to B is + 40°. Vertical angle from B to C is - 26°19'. All angles checked by three repetitions and base lines double chained.

SUBDIVISION OF T.43 S., R.6 E.

Chains



Distance by triangulation, A to B -------	12.15 chs.
Distance by triangulation, B to C -------	17.60 chs.
	29.75 chs.
Distance from true point for cor. of secs. 21, 22, 27, and 28 to point A of triangulation ----------	12.00 chs.
	17.75 chs.

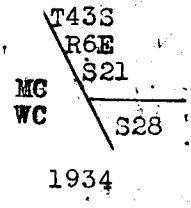
17.75 Point C of triangulation; (distance counted from the true point for cor. of secs. 21, 22, 27, and 28) base of inaccessible SW. face of sandstone breaks to the E., 580 ft. below top of reef, bears N.30°W. and S.30°E.; descend broken SW. slope over sandstone outcroppings, through scattered short undergrowth, with distances counted from the true point for sec. cor.

21.25 Top of a broken sandstone ledge, facing SW., bears N.30°W and S.25°E.; descend abruptly.

22.80 Base of ledge, 280 ft. high, bears N.30°W. and S.25°E.; thence over a sandy river bar, through dense undergrowth of willows, greasewood, yellow top, weeds, and grass.

31.90 On sandy river bar, on the right side of the Colorado River.

Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground, with a sandstone 20x12x4 ins., marked X, deposited alongside, for witness cor. to the meander cor. of frac. secs. 21 and 28, with brass cap marked



No other suitable accessories available.

32.75 True point for the meander cor. of frac. secs. 21 and 28, on the right bank of the Colorado River, falls on a sloping sandy bank, about 10 ft. high, bears N.24°W. and S.21°E., which is subject to overflow and where it is impracticable to set a permanent cor.

Land, breaks of reef and Colorado River, and sandy river bar, with general westerly exposure and drainage.

Soil, shallow loose sand, and sandstone surface rock, 4th rate, on E. portion; and deep silt sand, 2nd rate, on river bar.

Undergrowth, shadscale, blackbrush, mountain rush, yellow top, greasewood, willows, weeds, and grass.

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Chains	
	No timber.
	Poor grazing land on E. portion; fair on river bar.
	East, on true line bet. secs. 22 and 27.
	The true point for the cor. of secs. 21, 22, 27, and 28, which is S. 0°02' W., 8.67 chs. dist. from the witness cor. to the cor. of said secs., falls on the top of an inaccessible sandstone reef, I therefore commence at the witness cor. and run on offset line around base of reef as follows:
	East, 4.00 chs.
	S. 0°02' W., 8.67 chs. to:
4.00	Point on true line, at the base of inaccessible ledges, 420 ft. below top of reef, facing E., bears N. and S.; thence East on true line over broken E. slope of bench land, through scattered short undergrowth.
14.20	Rim of breaks of Colorado River, bears N. and S.; descend over broken E. slope of sandstone surface rock and ledges.
23.19	On the top of a nearly vertical sandstone ledge, 320 ft. high, facing E., bears N. 20°W. and S.20° E., 280 ft. below base of sandstone breaks of reef, on the right side of the Colorado River.
	Set an iron post, 3 ft. long, 1 in. diam., 14 ins. in a hole drilled in solid sandstone, and in a mound of stone to top, for witness cor. to the meander cor. of frac. secs. 22 and 27, with brass cap marked.
	T43S | R6E S22 | WC S27 | MC 1934
	The line to the E. of this cor. passes over nearly vertical inaccessible sandstone wall of river over which it is impracticable to determine the distance.
23.69	The estimated position for the meander cor. of frac. secs. 22 and 27, on the right bank of the Colorado River, falls on a nearly vertical sandstone wall, where it is impracticable to reach the cor. point and set a permanent cor.
	Land, sandstone breaks and broken bench land, with general easterly exposure and drainage.
	Soil, shallow loose sand and sandstone surface rock; 4th rate.
	Undergrowth, blackbrush, yellow top, shadscale, mountain rush, weeds, and grass.
	No timber.
	Fair grazing land on bench.

Chains	
	S. 0°02' W., bet. secs. 27 and 28.
	The true point for the cor. of secs. 21, 22, 27, and 28, which is S. 0°02' W., 8.67 chs. dist., from the witness cor. to the cor. of said secs., falls on the top of a high sandstone reef, and line to the S. follows along the inaccessible W. face of breaks near top of reef, over which it is impracticable to chain or project a line. I therefore commence at the witness cor. and run on offset lines over broken land near E. base of reef as follows:
	East, 5.00 chs.
	S.0°02'W., 8.67 chs.
	East, 10.00 chs.
	S. 0°02'W., 40.00 chs.
	West, 15.00 chs. to true line:
	N. 0°02' E. 9.80 chs. to
50.20	The S. base of inaccessible sandstone reef, which bears N.30°W., and S. 70° E. about 12.00 chs. dist. to SE. poi
	Thence S. 0°02' W., on true line.
	Descend gradually over broken sandstone surface rock, on general SW. slope of broken bench land, through scattered patches of short undergrowth.
40.00	On bare sandstone surface rock, about 750 ft. below top of reef, on general S. slope.
	Set an iron post, 3 ft. long, 1 in. diam., 14 ins. in a hole drilled in solid sandstone, and in a mound of stone to top, for ¼ sec. cor., with brass cap marked
	¼ S28 | S27 1934
42.60	Sandstone gulch, 30 ft. deep, drains S. 60° W.
51.70	Sandstone gulch, 50 ft. deep, drains SW.
69.14	On sandstone surface rock at the top of an inaccessible sandstone ledge, 260 ft. high, on the right side of the Colorado River, facing SW., bears N. 25° W. and S. 25° E. 50 ft. below ¼ sec. cor.
	Set an iron post, 3 ft. long, 1 in. diam., 8 ins. in a hole drilled in solid sandstone, and in a mound of stone to top, for witness cor. to the meander cor. of frac. secs. 27 and 28, with brass cap marked
	T43S | R6E S28 | S27 MC WC 1934
	The line to the S. of this cor. descends over inaccessible sandstone wall of river, over which it is impracticable to determine the distance.

Chains
72.14

The estimated position for the meander cor. of frac. secs. 27 and 28, on the right bank of the Colorado River, falls on the face of an inaccessible sandstone wall, where it is impracticable to reach the cor. point and set a permanent cor.

Land, sandstone breaks of reef and broken bench land, with general southwesterly exposure and drainage.

Soil, scattered patches of shallow loose sand and sandstone surface rock; 4th rate.

Undergrowth, scattered patches of blackbrush, yellow top, mountain rush, shadscale, oose, weeds, and grass.

No timber.

Poor grazing land.

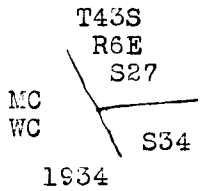
The position of the point for the cor. of secs. 27, 28, 33, and 34, falls in the Colorado River. To determine a point on true line bet. secs. 27 and 34, I commence at the witness cor. to the meander cor. of frac. secs. 27 and 28, which is S.0°02' E. 69.14 chs. dist., from the true point for cor. of secs. 21, 22, 27 and 28, and run on offset lines as follows:

East, 6.67 chs.

S.0°02' W., 10.86 chs. to:

Point on true line bet. secs. 27 and 34, which is a southing of 80.00 chs. from the true point for the cor. of secs. 21, 22, 27, and 28, and an easting of 6.67 chs. from the point for cor. of secs. 27, 28, 33, and 34. At this point which is on the top of a nearly vertical sandstone ledge, 260 ft. high, facing SW., bears N. 53° W. and S. 46° E.

Set an iron post, 3 ft. long, 1 in. diam., 8 ins. in a hole drilled in solid sandstone, and in a mound of stone to top, for witness cor. to the meander cor. of frac. secs. 27 and 34, with brass cap marked.



The line to the W. from this cor. passes over inaccessible nearly vertical wall of river, over which it is impracticable to determine the distance. The estimated position of the true point for the meander cor. of frac. secs. 27 and 34, on the right bank of the Colorado River, which falls on the SW. face of a nearly vertical sandstone wall where it is impracticable to reach the point and set a permanent cor., bears West, 50 lks. dist.

Thence:

East, on true line, with distances counted from the true point for the meander cor. of secs. 27 and 34.

SUBDIVISION OF T. 43 S., R. 6 E.

Chains	
0.50	Witness corner to the meander corner secs. 27 and 34.
	Ascend gradually over broken SW. slope of bare sandston surface rock.
21.20	Leave sandstone surface rock, bears N. 20°W. and SE.; th over broken sandy SW. slope, through scattered short un growth.
30.30	Top of ascent, 145 ft. above witness cor to the meander cor. of frac. secs. 27 and 34, bears N. and S.; descend gradual SE. slope over sandstone outcroppings and patch of loose sand.
35.33	On sandstone surface rock, at the top of W. rim of brea of Colorado River, 15 ft. below top of ascent, bears N. E. and S. 20° W.; easting of 40.00 chs. from point for of secs. 27, 28, 33 and 34.
	Set an iron post, 3 ft. long, 1 in. diam., 10 ins. in a hole drilled in solid sandstone, and in a mound of stone to top, for ¼ sec. cor, with brass cap marked.
	¼ S27 / S34
	1934
	Descend gradual SE. slope of sandstone surface rock and scattered patches of loose sand.
48.10	Sandstone draw, 20 ft. deep, drains NE.; thence over bro en general NE. slope of sandstone surface rock.
55.50	Sandstone gulch, 50 ft. deep, drains NE.; ascend gradual
71.20	Sandstone spur, 40 ft. high, projects N., and top of a sloping sandstone ledge, facing E., 160 ft. high, bears N. and S.; descend abruptly.
72.00	Base of ledge, bears N. and S., descend gradually over sandy NE. slope of river bar.
73.83	On sandy NE. slope, 260 ft. below ¼ sec. cor.; easting o 80.00 chs. from point for cor. of secs. 27, 28, 33 and 3
	Set an iron post, 3 ft. long, 2 ins. diam., 27 ins. in t ground, with a sandstone 15x12x4 ins., marked X, deposit at base, for cor. of secs. 26, 27, 34 and 35, with brass cap marked

T43S	R6E
S27	S26
S34	S35

1934

No other suitable accessories available.

Land, broken bench and breaks of the Colorado River, wit general southwesterly and northeasterly exposure and dra age.

Soil, scattered patches of shallow loose sand and sandst surface rock; 4th rate.

Undergrowth, scattered patches of blackbrush, yellow top mountain rush, shadscale, oose, weeds, and grass.
No timber.

Poor grazing land.

Chains	
	S.0°03'W., bet. secs. 34 and 35.
	Ascend gradual sandy NE. slope, through scattered short undergrowth, along W. side of river bar.
1.60	Top of ascent, 20 ft. above sec. cor., bears E. and W.; descend gradually over broken SE. slope of deep sand and gravel.
26.00	Leave sand and gravel, thence over sandstone surface rock, bears NE. and SW.
29.07	On sandstone surface rock, 150 ft. below top of ascent, at the mean high water mark, on the right bank of the Colorado river, bears SW. and N.21°E.
	Set an iron post, 3 ft. long, 1 in. diam., 14 ins. in a hole drilled in solid sandstone, for meander cor. of frac. secs. 34 and 35, with brass cap marked
	T43S R6E S35 S34 MC 1934
	Land, broken sand and gravel river bar, with general southeasterly exposure and drainage.
	Soil, deep loose sand and coarse gravel; 3rd rate.
	Undergrowth, blackbrush, yellow top, mountain rush, oose, weeds, and grass.
	No timber.
	Fair grazing land.

	From the cor. of secs. 26, 27, 34, and 35.
	East, on true line bet. secs. 26 and 35.
	Descend gradually over broken NE. slope of sand and gravel river bar, through scattered short undergrowth.
8.20	Change of slope, bears N. and S.; descend over E. slope.
11.40	On sandstone surface rock; 150 ft. below sec. cor., on the right bank of the Colorado River, at mean high water mark, bears N.20°E. and S.21°W.
	Set an iron post, 2 ft. long, 1 in. diam., 14 ins. in a hole drilled in solid sandstone, for meander cor. of frac. secs. 26 and 35, with brass cap marked
	T43S R6E S26 MC S35 1934
	Land, broken sand and gravel river bar, with general easterly exposure and drainage.
	Soil, deep sand and gravel; 3rd rate.

Chains	
	Undergrowth, blackbrush, yellow top, mountain rock, co weeds, and grass.
	No timber.
	Fair grazing land.
	From the cor. of secs. 26, 27, 34, and 35.
	N.0°03'E., bet. secs. 26 and 27.
	Descend gradually over sandy NE. slope of broken sand and gravel river bar, near the E. base of sandstone breaks, through scattered short undergrowth.
9.90	Sandstone draw, 100 ft. below sec. cor., drains N.75°E. ascend gradually over SE. slope.
18.50	Base of inaccessible sandstone ledges, bears N.20°E. and S.20°W. Line to the N. ascends over inaccessible sandstone ledges and SE. face of breaks of Colorado River, over which it is impracticable to chain or proje a line, I therefore offset around the E. base of breaks as follows:
	East, 6.50 chs.
	N.0°03'E., 21.50 chs. to point designated A, thence;
	West, 6.50 chs. to:
40.00	Point on true line on steep broken SE. face of sandston breaks, 160 ft. above draw.
	Set an iron post, 3 ft. long, 1 in. diam., 14 ins. in a hole drilled in solid sandstone, and in a mound of ston to top, for ¼ sec. cor., with brass cap marked
	¼ S27 | S26 1934
	Thence N.0°03'E., on true line, ascend abrupt SE. slope of sandstone surface rock.
43.50	Top of a broken inaccessible sandstone ledge, facing N. 220 ft. high, bears N.70°E. and S.70°W. The line to the N. descends over inaccessible N. face of ledge, over which it is impracticable to chain or project line, I therefore return to the point designated as A on offset line, and continue on offset line as follows:
	N.0°03'E., 4.29 chs.
	West, 6.50 chs. to:
44.29	Point on true line at the base of sandstone ledge, 220 ft. high, bears N.80°W. and S.80°E.
	Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground, with a sandstone 10x6x6 ins., marked X, deposited at base, for witness cor. to the meander cor. of frac. secs. 26 and 27, with brass cap marked

Chains

WC
MC

T43S | R6E
S27 | S26

1934

No other suitable accessories available.

Thence N.0°03'E. on true line, over sandy river bar, through dense undergrowth of greasewood, rabbit brush, willows, weeds, and grass.

47.29 The true point for the meander cor. of frac. secs. 26 and 27, on the right bank of the Colorado River, falls on a sloping sandy bank about 10 ft. high, bears N.73°W. and S.70°E., which is subject to overflow and where it is impracticable to set a permanent cor.

Land, sand and gravel river bar and sandstone breaks, with general easterly exposure and drainage.

Soil, deep sand and coarse gravel, and sandstone surface rock; 3rd rate.

Undergrowth, blackbrush, mountain rush, yellow top, oose, greasewood, rabbit brush, willows, weeds, and grass.

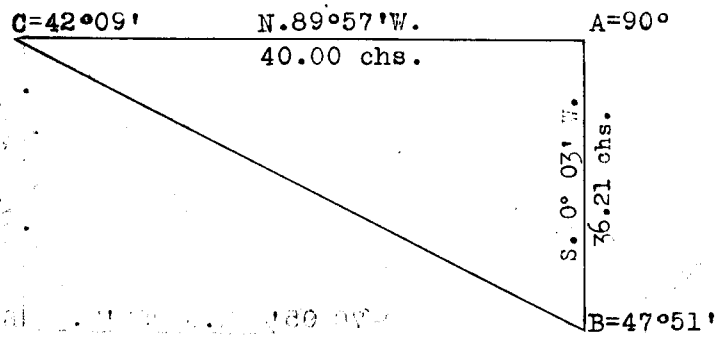
No timber.

Fair grazing land on river bar.

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

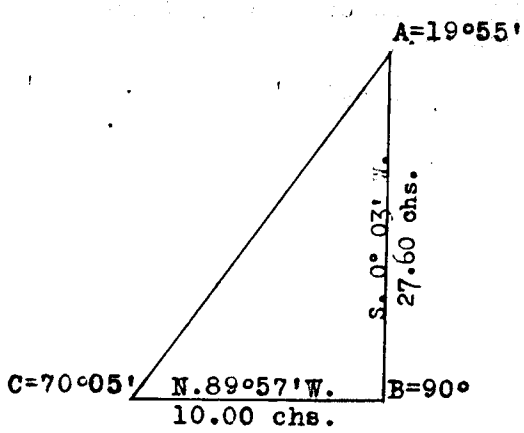
S.0°03'W., bet. secs. 2 and 3.

Line to the S. of this cor. ascends gradually along a steep W. slope of sandstone surface rock and ledges on W. face of breaks of mesa, over which it is impracticable to chain. I therefore determine the distance by triangulation as follows. Erect flag A at this cor. and flag B on line to the S. From A, survey base line AC, N.89°57'W. 40.00 chs. dist., and erect flag C. From C, flags A-B subtend an angle of 42°09'. From B, flags A-C subtend an angle of 47°51'. Vertical angle from A to B is+9°15'. All angles checked by repetition and base line double chained.



Distance by triangulation 36.21 chs.

Chains.	
16.20	Approximate distance; sandstone spur, 290 ft. above sec. cor., projects W.; base of the SW. point of a high ledge which bears northerly and easterly, bears E., 1.20 chs. dist., faces W. and S.; descend abrupt S. slope.
22.50	Approximate distance; sandstone gulch, 150 ft. below spur, drains N.70°W. and heads N.60°E. about 4.00 chs. distance at base of ledges; ascend abrupt broken sandstone ledges on N. slope.
36.21	Point B of triangulation; on steep broken N. slope, 395 ft. above sec. cor., on a narrow rocky shelf.
	Set an iron post, 3 ft. long, 1 in. diam., 12 ins. in the ground to solid rock, with a sandstone 10x6x6 ins., marked X, deposited at base, and in a mound of stone to top, for witness cor. to the ¼ sec. cor., with brass cap marked
	¼ S 3 | S 2 W | C 1934
	Thence by chaining; ascend abrupt N. face of sandstone ledges and breaks of mesa.
40.00	True point for the ¼ sec. cor. falls on N. face of inaccessible sandstone ledge where it is impracticable to set a permanent cor.
45.00	Top of the N. rim of point of mesa, 290 ft. above the witness cor. to the ¼ sec. cor., bears NE. and SW.; thence over broken top of mesa, through scattered short undergrowth.
57.60	Top of S. rim of point of mesa, bears N.60°E. and S.60°W. Line to the S of this point descend abruptly over inaccessible sandstone ledges and steep surface rock, on SE. face of breaks of mesa, over which it is impracticable to chain. I therefore determine the distance by triangulation as follows. Erect flag A at this point and flag B on line to the S. From B, survey base line BC, N.89°57'W., 10.00 chs. dist. and erect flag C. From C, flags A-B subtends an angle of 70°05'. From A, flags B-C subtend an angle of 19°55'. Vertical angle from A to B is - 24°42'. All angles checked by three repetitions and base line double chained.



Distance on line	57.60 chs.
Distance by triangulation	27.60 chs.
Distance to point B of triangulation	85.20 chs.
Distance by return measurement	8.20 chs.
	77.00 chs.

Chains	
79.00	Sandstone gulch, 220 ft. below rim, drains SW.; ascend abrupt NW. slope of bare sandstone surface rock.
80.60	Point for the cor. of secs. 2, 3, 10, and 11, falls on a steep W. slope of sandstone surface rock, on general top of sandstone spur, 75 ft. above gulch, slopes W., where it is impracticable to set a permanent cor. Therefore at a point, West, 2.46 chs. dist. from true point for sec. cor., on the W. point of bare sandstone spur, mark a cross on solid sandstone, over which:

Set an iron post, 3 ft. long, 2 ins. diam., in a large mound of stone to top, for witness cor. to the cor. of secs. 2, 3, 10, and 11, with brass cap marked

T43S R6E
S 3 | S 2
WC
S10 | S11

1934

Land, broken sandstone breaks of mesa, with general westerly exposure and drainage.

Soil, shallow patches of loose sand and rock, and sandstone surface rock; 4th rate.

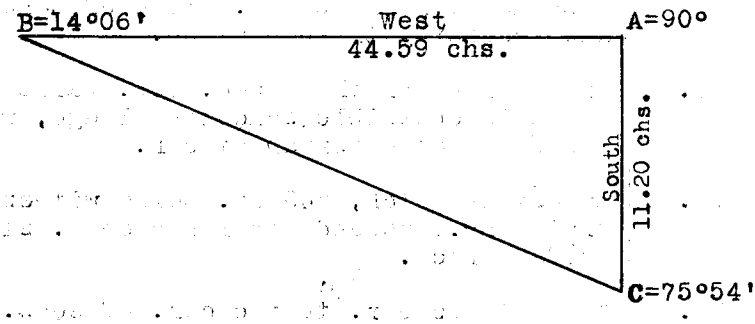
Undergrowth, scattered patches of blackbrush, mountain rush, yellow top, oose, weeds, and grass.

No timber.

Poor grazing land.

West, on a random line bet. secs. 3 and 10, from the true point for cor. of secs. 2, 3, 10, and 11.

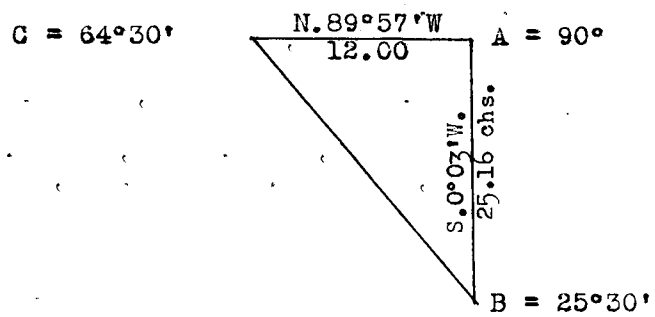
3.05	Leave flag point.
5.50	The line to the W. of this point ascends over inaccessible S. face of sandstone breaks of mesa, over which it is impracticable to chain, I therefore return to the 3.05 chs. point and determine the distance by triangulation as follows. Erect flag A at the 3.05 chs. point and flag B on line to the West. From A, survey base line AC, South, 11.20 chs. dist., and erect flag C. From C, flags A-B subtend an angle of 75°54'. From B, flags A-C subtend an angle of 14°06'. Vertical angle from A to B is + 12°. All angles checked by repetition and base line double chained.



Distance on line	3.05 chs.
Distance by triangulation	44.59 chs.
	47.64 chs.

Chains	
47.64	Point B of triangulation; set temp. witness cor. to the ¼ sec. cor. Line to the W. of this witness cor. passes over an inaccessible point of mesa, over which it is impractical to chain or project a line, I therefore run on offset lines around the SW. point of base of breaks as follows South, 25.00 chs. West, 32.34 chs. North, 10.00 chs. West, 1.84 chs. North, 15.00 chs. to:
81.82	The witness cor. to the cor. of secs. 3, 4, 9, and 10, which is S.89°56'W., 1.82 chs. dist. from the true point for said secs. The course of the line bet. secs. 3 and 10 therefore is West, and the distance is 80.00 chs. Thence: East, on true line bet. secs. 3 and 10, with distances counted from the true point for cor. of secs. 3, 4, 9, and 10. Ascend over inaccessible sandstone ledges and breaks of NW. face of point of high mesa, over scattered patches of sand and rock, and scattered patches of short undergrowth. Approximate distance:
30.00	Top of sharp point of mesa, 1050 ft. above true point for sec. cor., projects S.70°W.; descend abruptly over inaccessible sandstone ledge, facing SE.
32.36	Point B of triangulation at the base of a nearly vertical sandstone ledge, about 200 ft. high, facing SE., bears N.70°E. and S.70°W. Set an iron post, 3 ft. long, 1 in. diam., 10 ins. in the ground, with a sandstone, 8x6x4 ins., marked X, deposited at base, and in a mound of stone to top, for witness cor. to the ¼ sec. cor., with brass cap marked ¼ S 3 / S10 WC 1934 Descend over broken SE. slope of sandstone surface rock and ledges by triangulation.
40.00	True point for the ¼ sec. cor. falls on the SE. face of an inaccessible sandstone ledge, where it is impracticable to set a permanent cor.
74.50	Sandstone gulch, 745 ft. below witness ¼ sec. cor., drains SW.; ascend over broken W. slope of sandstone surface rock.
77.54	The witness cor. to the cor. of secs. 2, 3, 10, and 11, 75 ft. above gulch, near W. point of spur, bears E.; ascend abrupt W. slope on general top of spur.

Chains	
80.00	The true point for cor. of secs. 2, 3, 10 and 11, 115 ft. above gulch.
	Land, sandstone breaks of point of mesa, with general northwesterly and southeasterly exposure.
	Soil, scattered patches of shallow loose sand and rock, and sandstone surface rock; 4th rate.
	Undergrowth, scattered patches of blackbrush, yellow top, mountain rush, oose, weeds, and grass.
	No timber.
	Poor grazing land.
	S.0°03'W., bet. secs. 10 and 11, from the true point for cor. of secs. 2, 3, 10 and 11, which is East, 2.46 chs. dist., from the witness cor. to the cor. of said secs.
	Descend gradually over steep SW. slope of sandstone surface rock, through scattered patches of short undergrowth.
6.50	Sandstone gulch, 75 ft. below true point for sec. cor., drains N.80°W.; ascend gradually over sandy broken W. slope, through scattered short undergrowth.
12.60	Base of inaccessible NW. face of sandstone ledges and steep surface rock, on breaks of point of mesa, bears N.68°E. and S.68°W. Line to the S. of this point ascends over inaccessible breaks over which it is impracticable to chain, I therefore determine the distance by triangulation as follows. Erect flag A at this point and flag B on line to the South. From A, survey base line AC, N.89° 57'W., 12.00 chs. dist., and erect flag C. From C, flags A-B subtend an angle of 64°30'. From B, flags A-C subtends an angle of 25°30'. Vertical angle from A to B is +27°57'. All angles checked by three repetitions and base line double chained.

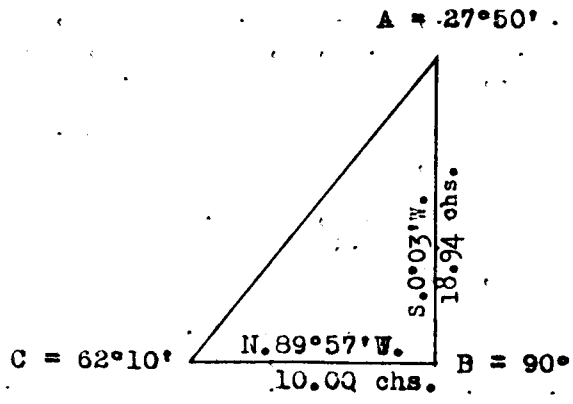


Distance on line	12.60 chs.
Distance by triangulation	25.16 chs.
	37.76 chs.

37.76	Point B of triangulation on the top of a narrow broken spur, about 35 lks. wide on top, with nearly vertical sandstone ledges about 150 ft. high, facing N. and S. 890 ft. above true point for sec. cor., projects S.68° 45'W. and bears N.68°45'E. to mesa. On solid sandstone, mark a cross, over which:
	Set an iron post, 3 ft. long, 1 in. diam., in a large mound of stone to top, for witness cor. to the ¼ sec. cor., with brass cap marked

SUBDIVISION OF T.43 S., R.6 E.

Chains	
	¼ S10 | S11 WC 1934
37.96	Line to the S. of this point descends abruptly over inaccessible sandstone ledges and surface rock, on S. face of breaks of spur, over which it is impracticable to chain, I therefore determine the distance by triangulation as follows. Erect flag A at this point and flag B on line to the South. From B, survey base line BC, N.89°57'W., 10.00 chs. dist. and erect flag C. From A, flags B-C subtend an angle of 27°50'. From C, flags A-B subtend an angle of 62°10'. Vertical angle from A to B is -34°34'. All angles checked by three repetitions and base line double chained.



Distance on line	37.96 chs.
Distance by triangulation	18.94 chs.
	56.90 chs.

40.00	True point for ¼ sec. cor. falls on face of inaccessible ledge, where it is impracticable to set cor. monument.
56.90	Point B of triangulation at the base of sandstone surface rock and ledges, 870 ft. below top of spur, bears N.70°E. and S.70°W.; descend gradually over sandy SE. slope of rolling bench land, through scattered short undergrowth.
80.00	On sandy SE. slope of bench, 45 ft. below base of ledges

Set an iron post, 3 ft. long, 2 ins. diam., 27 ins. in the ground, for cor. of secs. 10, 11, 14 and 15, with brass cap marked

T43S	R6E
S10	S11
S15	S14

1934

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

Land, N. portion, sandstone breaks and ledges; S. portion rolling sandy bench. General northwesterly and southerly exposure and drainage.

Soil, shallow scattered patches of loose sand, and sandstone surface rock, 4th rate, on N. portion; deep loose sand, 2nd rate, on S. portion.

Undergrowth, blackbrush, yellow top, mountain rush, oose,

Chains	
	weeds, and grass.
	No timber.
	Grazing, poor on N. portion; fair on S. portion.
	West, on a random line bet. secs. 10 and 15.
40.00	Set temp. ¼ sec. cor.
79.98	Intersect N. and S. line, 5 lks. S. of cor. of secs. 9, 10, 15, and 16.
	Thence:
	S.89°58'E., on true line bet. secs. 10 and 15.
	Over broken bench land, through scattered short undergrowth
15.00	Last Chance Creek, which is a stream of alkali water, 4 lks. wide, 1 in. deep, in the bottom of a sandstone gorge, 2.30 chs. wide, with nearly vertical walls 100 ft. high, drains S.20°E.; thence over broken sandy bench land.
26.50	Draw, 45 ft. deep, drains S.60°W.
39.99	On broken sandy bench, nearly level with sec. cor.
	Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground, for ¼ sec. cor., with brass cap marked ¼ S10/S15 1934 of stone, 2 ft. base, 1½ ft. high, N. of cor. raise a mound
45.40	Same draw as that noted at 26.50 chs., 25 ft. deep, drains N.15°W.
54.00	The base of the SW. point of sandstone breaks, which bears NE. and NW., bears North, 3.50 chs. dist.
79.98	The cor. of secs. 10, 11, 14, and 15, 25 ft. below ¼ sec. cor.
	Land, broken bench, with general easterly and westerly exposure and drainage.
	Soil, deep and shallow loose sand and sandstone surface rock; 3rd rate.
	Undergrowth, blackbrush, yellow top, mountain rush, oose, weeds, and grass.
	No timber.
	Fair grazing land.
	S.0°03'W., bet. secs. 14 and 15.

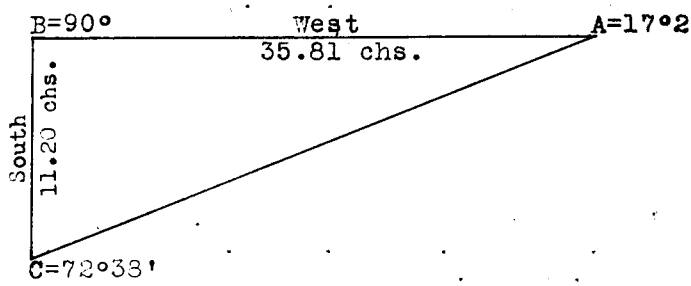
Chains	
	Descend gradually over sandy SE. slope of rolling bench land, through scattered short undergrowth.
9.10	Gulch, 45 ft. deep, drains S.20°W., 2.00 chs. dist., thence SW.; thence over general W. slope.
26.50	Rim of sandstone gulch and breaks of the Colorado River, bears N.35°W. and S.35°E.; descend over SW. slope of broken sandstone surface rock.
38.05	On top of a nearly vertical sandstone ledge, about 200 ft. high, facing S., 100 ft. below rim of breaks, bears S.70°W. and S.78°E., on the right side of the Colorado River.
	Set an iron post, 3 ft. long, 1 in. diam., 12 ins. in a hole drilled in solid sandstone, and in a mound of stone to top, for witness cor. to the meander cor. of frac. secs. 14 and 15, with brass cap marked
	T43S R6E S15 | S14 MC WC 1934
	The line to the S. of this cor. descends abruptly over nearly vertical inaccessible sandstone wall of river, over which it is impracticable to determine the distance
39.05	The estimated position of the true point for the meander cor. of frac. secs. 14 and 15, on the right bank of the Colorado River, falls on the face of nearly vertical sandstone wall, bears S.70°W. and S.78°E., where it is impracticable to reach the cor. point and set a permanen cor.
	Land, rolling sandy bench and breaks of the Colorado River, with general southeasterly and southwesterly exposure and drainage.
	Soil, shallow sand and sandstone surface rock; 3rd rate.
	Undergrowth, blackbrush, yellow top, mountain rush, oose, weeds, and grass.
	No timber.
	Fair grazing land on bench.

	From the cor. of secs. 1, 2, 35, and 36, on the N. bdy. of the Tp., heretofore described.
	S.0°03'W., bet. secs. 1 and 2.
	Descend gradually over rolling sandy mesa land, through scattered short undergrowth.
6.00	Sandy swale, 30 ft. below sec. cor., drains S.60°W.; ascend gradual NW. slope.
18.60	Sandy spur, 30 ft. above bottom of swale, projects S.70°W.; thence along general W. slope.
31.20	Head of draw, 20 ft. deep, drains W. about 10.00 chs.

Chains	
	dist., thence S.60°W.
40.00	On rolling mesa land at a bend in sandstone rim, 10 ft. high, facing W., bears NW. and S.30°W., among large sandstone boulders.
	Set an iron post, 3 ft. long, 1 in. diam., 6 ins. in the ground to solid rock, with a sandstone 8x8x8 ins., marked X, deposited at base, and in a mound of stone to top, for ¼ sec. cor., with brass cap marked
	¼ S 2 | S 1 1934
43.50	Same sandstone rim, 10 ft. high, facing S., bears W. and E. about 5.50 chs. dist., thence S.; descend gradual SW. slope.
61.80	Bottom of a sandy swale, 50 ft. below ¼ sec. cor., drains W.; ascend gradual NW. slope.
72.00	Sandstone rim, 10 ft. high, facing NW., bears NE. and SW.
74.50	Sandy rise, 35 ft. above swale, bears N.55°E. and S.55°W.; descend gradual SE. slope.
75.60	Sandstone rim, 10 ft. high, facing SE., bears N.60°E. and S.60°W.; thence descend gradual S. slope.
80.00	Set an iron post, 3 ft. long, 2 ins. diam., 10 ins. in the ground to solid rock, with a sandstone, 10x10x6 ins., marked X, deposited at base, and in a mound of stone to top, for cor. of secs. 1, 2, 11, and 12, with brass cap marked
	T43S R6E S 2 | S 1 S11 | S12 1934
	No other suitable accessories available.
	Land, rolling mesa land, with general southwesterly exposure and drainage.
	Soil, deep loose sand and sandstone surface rock; 3rd rate.
	Undergrowth, blackbrush, mountain rush, oose, yellow top, weeds, and grass.
	No timber.
	Good grazing land.
	West, on a random line bet. secs. 2 and 11.
40.00	Set temp. ¼ sec. cor.
47.24	The line to the W. of this point descends abruptly over

Chains

inaccessible W. face of breaks of mesa, over which it is impracticable to chain, I therefore determine the distance by triangulation as follows. Erect flag A at this point and flag B on line to the W. From B, survey base line BC, South, 11.20 chs. dist. and erect flag C. From C, flags A-B subtend an angle of 72°38'. From A, flags B-C subtend an angle of 17°22'. Vertical angle from A to B is - 23°45'. All angles checked by three repetitions and base line double chained.



Distance on line	47.24 chs.
Distance by triangulation	35.81 chs.
	83.05 chs.
Distance by return measurement	3.05 chs.
	80.00 chs.

80.00 Intersect the true point for cor of secs. 2, 3, 10, and 11, which is East, 2.46 chs. dist., from the witness cor. to the cor. of secs. 2, 3, 10, and 11.

Thence:

East, on true line bet. secs. 2 and 11, from true point for cor.

Ascend abruptly over inaccessible W. face of sandstone ledges and breaks of mesa by triangulation.

32.76 Point A of triangulation on the top of a high nearly vertical sandstone ledge on W. rim of mesa, 1010 ft. above true point for cor. of secs. 2, 3, 10, and 11, bears N.15°W., and S.20°E. about 6.00 chs. dist., thence S.10°W.; thence over sandy rolling mesa land.

38.40 Small draw, 10 ft. deep, drains S.60°W.; ascend gradual NW. slope.

40.00 On gradual NW. slope, 10 ft. above draw.

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

$$\frac{1}{4}\ \frac{S\ 2}{S11}$$

1934

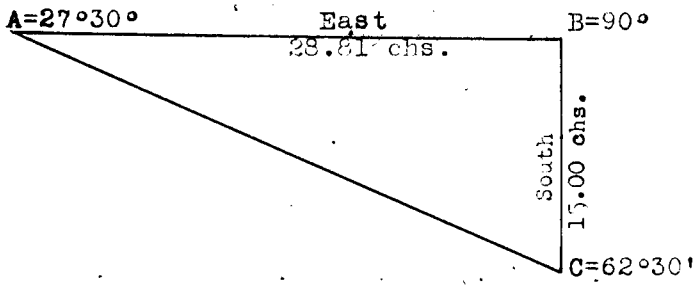
raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor.

75.50 Sandy rise, 115 ft. above ¼ sec. cor., bears N.60°E. and S.60°W.; descend gradual SE. slope.

80.00 The cor. of secs. 1, 2, 11, and 12, 25 ft. below rise.

Land, sandstone ledges and breaks on W. portion; rolling mesa land on E. portion.

Chains	
	Soil, none on W. portion; deep loose sand, 2nd rate, on E. portion.
	Undergrowth, blackbrush, mountain rush, oose, yellow top, weeds, and grass.
	No timber.
	Good grazing land on top of mesa.
	East, on a random line bet. secs. 1 and 12.
40.00	Set temp. ¼ sec. cor.
51.22	The line to the E. of this point descends abruptly over inaccessible sandstone breaks of mesa, over which it is impracticable to chain, I therefore determine the distance by triangulation as follows. Erect flag A at this point and flag B at the cor. of secs. 1, 6, 7, and 12, on line to the East. From B, survey base line BC, South, 15.00 chs. dist., and erect flag C. From C, flags A-B subtend an angle of 62°30'. From A, flags B-C subtend an angle of 27°30'. Vertical angle from A to B is - 27°15'. All angles checked by three repetitions and base line double chained.



Distance on line	51.22 chs.
Distance by triangulation	28.81 chs.
	80.03 chs.

80.03	The cor. of secs. 1, 6, 7, and 12, on the E. bdy. of the Tp., heretofore described.
	Thence:
	West, on true line bet. secs. 1 and 12.
	Ascend gradually over SE. slope of bench land, through scattered short undergrowth.
17.50	Base of sandstone breaks of mesa, bears NE. and SW., 130 ft. above sec. cor.; ascend abruptly over inaccessible SE. face of sandstone ledges and breaks of mesa by triangulation
28.81	Point A of triangulation at the top of a nearly vertical sandstone ledge, about 250 ft. high, facing SE., 980 ft. above sec. cor., bears NE., and S.20°W. about 5.00 chs. dist., thence westerly; ascend abrupt broken SE. slope.
32.30	Top of E. rim of mesa, 45 ft. above top of ledge, bears N.20°E., and S.20°W. about 4.00 chs. dist., thence westerly; over general S. slope of sandy rolling mesa land, through scattered short undergrowth.

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Chains	
40.03	On a sandstone outcrop on rolling mesa land, mark a cross, over which: Set an iron post, 3 ft. long, 1 in. diam., in a large mound of stone to top, for ¼ sec. cor., with brass cap marked ¼ S 1 / S12 1934
41.30	Gulch, 20 ft. deep, heads NE. 1.50 chs. dist., and drain SE. about 4.00 chs. dist., to the rim of mesa, which bears N.80°E. and SW.
58.00	Sandy rise, 45 ft. above ¼ sec. cor., bears N. and S.10°W.; descend gradually over general S. slope.
80.03	The cor. of secs. 1, 2, 11, and 12, 40 ft. below rise. Land, rolling mesa, sandstone breaks, and rolling bench, with general southerly exposure and drainage. Soil, shallow loose, sand and sandstone surface rock; 3rd rate. Undergrowth, blackbrush, mountain rush, oose, yellow top weeds, and grass. No timber. Fair grazing land.
	--- S.0°03'W., bet. secs. 11 and 12. Descend gradually over rolling sandy mesa land, through scattered short undergrowth.
14.30	Draw, 30 ft. deep, drains S.60°W.; thence along general W. slope.
40.00	On sandy W. slope of rolling mesa land. Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground, with a sandstone 12x10x6 ins., marked X, deposited at base, for ¼ sec. cor., with brass cap marked ¼ S11 | S12 1934 No other accessories available.
51.40	Sandy draw, 20 ft. below ¼ sec. cor., drains W.; ascend gradually over NW. slope.
67.80	Sandy rise, 45 ft. above draw, bears NE. and SW.; descend gradually over broken S. slope.
74.80	Top of a sandstone ledge, 10 ft. high, facing S., bears E. and SW.
78.70	Top of a bend in a sandstone ledge, 30 ft. high, facing

U. S. GOVERNMENT PRINTING OFFICE: 1931 6—6155

Chains	
	S., bears S.70°E. and S.60°W.
80.00	On sandstone surface rock on broken S. slope of S. point of mesa, 100 ft. below rise.
	Set an iron post, 3 ft. long, 1 in. diam., 8 ins. in a hole drilled in solid sandstone, and in a mound of stone to top, for cor. of secs. 11, 12, 13, and 14, with brass cap marked

T43S R6E
S11 | S12
S14 | S13
1934

Land, rolling mesa, with general westerly exposure and drainage.

Soil, deep and shallow loose sand and sandstone outcroppings; 3rd rate.

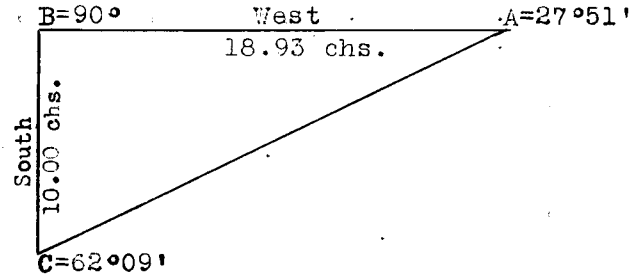
Undergrowth, blackbrush, mountain rush, oose, yellow top, weeds, and grass.

No timber.

Good grazing land.

West, on a random line bet. secs. 11 and 14.

32.06 Line to the W. of this point descends abruptly over inaccessible sandstone ledges and breaks of mesa, over which it is impracticable to chain, I therefore determine the distance by triangulation as follows. Erect flag A at this point and flag B on line to the West. From B, survey base line BC, South, 10.00 chs. dist. and erect flag C. From C, flags A-B subtend an angle of 62°09'. From A, flags B-C subtend an angle of 27°51'. Vertical angle from A to B is - 41°21'. All angles checked by three repetitions and base line double chained.



Distance on line	32.06 chs.
Distance by triangulation	18.93 chs.
	50.99 chs.
Distance by return measurement	5.58 chs.
	45.41 chs.

45.41 Set temp. witness cor. to the ¼ sec. cor.

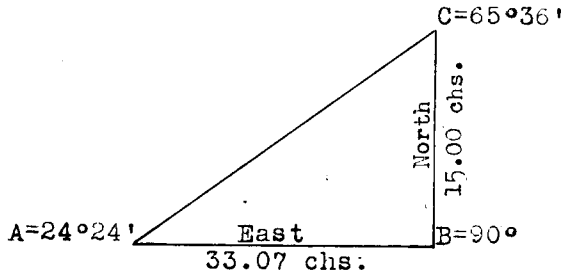
50.99 Point B of triangulation.

80.06 Intersect the cor. of secs. 10, 11, 14, and 15.

Thence:

Chains	
	East, on true line bet. secs. 11 and 14.
	Descend gradual SE. slope of sandy rolling bench land, through scattered short undergrowth.
1.50	Draw, 20 ft. deep, drains S.; ascend gradually over general W. slope.
29.07	Point B of triangulation.
34.65	At the base of inaccessible sandstone ledges and NW. face of breaks of mesa, 35 ft. above draw, bears NE. and SW. Set an iron post, 3 ft. long, 1 in. diam., 10 ins. in the ground to solid rock, with a sandstone, 8x8x6 ins., marked X, deposited at base, and in a mound of stone to top, for witness ¼ sec. cor., with brass cap marked WC¼ S11/S14 1934 Ascend abruptly over inaccessible NW. face of breaks of mesa by triangulation.
40.03	True point for the ¼ sec. cor. falls on the face of inaccessible breaks of mesa, where it is impracticable to reach the cor. point and set a permanent cor.
48.00	Point A of triangulation; rim of mesa, 1110 ft. above base of breaks, bears SW. and NE. about 2500 chs. dist., thence N.; ascend gradual W. slope of rolling mesa land, through scattered short undergrowth.
56.40	Top of rise, 40 ft. above rim, bears NE. and SW.; descend gradual SE. slope.
68.70	Sandstone ledge, 10 ft. high, facing SE., bears N.70°E. and S.30°W.; descend gradually over broken SE. slope.
76.40	Top of sandstone ledge, 30 ft. high, facing SE., bears N.60°E. and S.60°W.
80.06	The cor. of secs. 11, 12, 13, and 14, 100 ft. below top of rise. Land, rolling bench, sandstone ledges and breaks, and rolling mesa land, with general westerly and southeasterl exposure and drainage. Soil, deep and shallow loose sand and sandstone surface rock; 3rd rate. Undergrowth, blackbrush, mountain rush, yellow top, oose, weeds, and grass. No timber. Good grazing land on bench and mesa.
	East, on true line bet. secs. 12 and 13.
	Ascend gradually over broken S. slope of S. point of mesa, through scattered short undergrowth.

Chains	
4.00	Top of a sandstone ledge, 30 ft. high, facing SW., 50 ft above sec. cor., bears N.70°W. and S.70°E.; thence over nearly level land.
6.93	East rim of mesa bears N., and S.15°E., about 8.50 chs. dist. to SE. point, thence westerly. Line to the E. of this point descends abruptly over inaccessible sandstone ledges on E. face of breaks of mesa, over which it is impracticable to chain. I therefore determine the distance by triangulation as follows. Erect flag A at this point and flag B on line to the East. From B, survey base line BC, North, 15.00 chs. dist., and erect flag C. From C, flags A-B subtend an angle of 65°36'. From A, flags B-C subtend an angle of 24°24'. Vertical angle from A to B is - 25°38'. All angles checked by three repetitions and base line double chained.



Distance on line	6.93 chs.
Distance by triangulation	33.07 chs.
	40.00 chs.
Distance by return measurement	17.90 chs.
	22.10 chs.

22.10	Base of sandstone ledges and breaks of mesa, 1060 ft. below rim, bears N. and S.; descend gradually over general E. slope of rolling bench land, through scattered short undergrowth.
40.00	On general E. slope, 50 ft. below base of ledges, at point B of triangulation. Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground, for ¼ sec. cor., with brass cap marked ¼ S12/S13 1934 raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor.
74.80	Rim of breaks of Colorado River, bears NE. and S.20°W.; descend abruptly over steep E. slope of broken sandstone surface rock.
79.62	On the top of a nearly vertical sandstone ledge, 200 ft. high, facing SE., 110 ft. below ¼ sec. cor., bears N.42°E. and S.28°W., on the right side of the Colorado River. Set an iron post, 3 ft. long, 1 in. diam., 12 ins. in a hole drilled in solid sandstone, and in a mound of stone to top, for witness cor. to the meander cor. of frac. secs. 12 and 13, with brass cap marked

Chains

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R6E
S12.
MC
WC
S13
1934

The line to the E. of this cor. descends abruptly over nearly vertical inaccessible sandstone wall of river, over which it is impracticable to determine the distance.

79.82 The estimated position of the true point for the meander cor. of frac. secs. 12 and 13, on the right bank of the Colorado River, falls on the face of nearly vertical sandstone wall, bears, N.42°E. and S.28°W., where it is impracticable to reach the point and set a permanent cor.

Land, breaks of mesa and rolling sandy bench, with general easterly exposure and drainage.

Soil, shallow sand and sandstone surface rock; 3rd rate.

Undergrowth, blackbrush, yellow top, mountain rush, oose, weeds, and grass.

No timber.

Fair grazing land.

From the cor. of secs. 11, 12, 13, and 14.

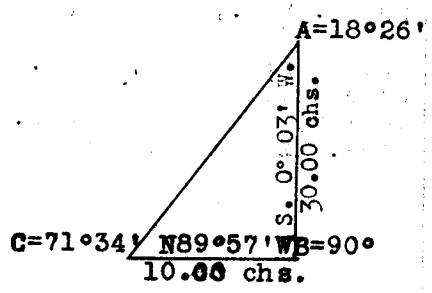
S.0°03'W., bet. secs, 13 and 14.

Descend gradually over broken S. slope of sandstone surface rock on S. point of top of mesa.

5.90 South rim of mesa top, bears E. and W.; line to the S. of this point follows along the broken top of a sandstone reef that projects S. from mesa, about 150 ft. below top of mesa, over which it is impracticable to chain or project a line. I therefore run on offset line as follows

West, 9.23 chs.; thence

S.0°03'W., 34.10 chs. This course descends abruptly over inaccessible sandstone ledges and S face of breaks of mesa, over which it is impracticable to chain, I therefore determine a portion of this distance by triangulation as follows. Erect flag A at the beginning of this course and flag B on line to the S. From B, survey base line BC, N.89°57'W., 10.00 chs. dist., and erect flag C. From C, flags A-B subtend an angle of 71°34'. From A, flags B-C subtend an angle of 18°26'. Vertical angle from A to B is - 27°42'. All angles checked by repetition and base line double chained.



Chains	
	Distance by triangulation 30.00 chs. Distance by chaining 4.10 chs. 34.10 chs.
40.00	Point which is West, 9.23 chs. dist., from true point for ¼ sec. cor., thence: East, 5.23 chs., to the W. base of inaccessible sandstone ledges on the W. face of breaks of high reef, bears N. and S., 900 ft. below sec. cor., mark a cross on solid sandstone, over which: Set an iron post, 3 ft. long, 1 in. diam., in a large mound of stone to top, for witness cor. to the ¼ sec. cor., with brass cap marked ¼ S14 | S13 W C 1934 The true point for ¼ sec. cor., bears East, 4.00 chs. dist., and falls on the broken top of high inaccessible sandstone reef, where it is impossible to reach the cor. point and set a permanent cor. It being impossible to project a line to the S., I return to the 40.00 chs. point on offset line and continue on offset along the base of W. breaks of reef as follows: S.0°03'W., 16.90 chs. East, 9.23 chs. to:
56.90	Point on true line at the base of SW. breaks of S. point of inaccessible sandstone reef, bears N.20°W., and SE. about 10.00 chs. dist., to the SE. point of breaks of reef; thence S.0°03'W., on true line, over S. slope of broken bench land, through scattered short undergrowth.
80.00	On broken bench land, 100 ft. below base of reef. Set an iron post, 3 ft. long, 2 ins. diam., 6 ins. in the ground to solid rock, with a sandstone 8x6x6 ins., marked X, deposited at base, and in a mound of stone to top, for cor. of secs. 13, 14, 23, and 24, with brass cap marked T43S R6E S14 | S13 S23 | S24 1934 Land, broken sandstone reef and sandy broken bench land, with general southeasterly and southwesterly exposure and drainage. Soil, shallow loose sand and sandstone surface rock; 3rd rate. Undergrowth, blackbrush, shadscale, yellow top, mountain rush, oose, weeds, and grass. No timber. Poor grazing land.

U. S. GOVERNMENT PRINTING OFFICE: 1931 6—8155

Chains

West, on true line bet. secs. 14 and 23.

Descend gradually over broken bench land, through scatt short undergrowth.

2.30 Rim of breaks of Colorado River, bears S.25°E., and N. 2.00 chs. dist., thence N.80°W.; descend abruptly over broken SW. slope of sandstone surface rock.

35.14 On the top of a sandstone ledge, 100 ft. high, facing SW., 185 ft. below sec. cor., bears N.26°W. and S.22°E. on the right side of the Colorado River.

Set an iron post, 24 ins. long, 1 in. diam., 14 ins. in a hole drilled in solid sandstone, for witness cor. to the meander cor. of frac. secs. 14 and 23, with brass cap marked

MC T43S S14
WC S23 R6E
1934

36.14 True point for meander cor. of frac. secs. 14 and 23, on the right bank of the Colorado River, falls on the NW. end of a sandy river bar, near base of ledge, 100 ft below witness cor. to the meander cor. of frac. secs 14 and 23., bears N.26°W. and S.22°E., where it is subject to overflow and where it is impracticable to set a permanent cor.

Land, broken bench and sandstone breaks, with general southwesterly exposure and drainage.

Soil, shallow patches of loose sand and sandstone surfa rock; 4th rate.

Undergrowth, blackbrush, yellow top, mountain rush, oos weeds, and grass.

No timber.

Poor grazing land.

From the cor. of secs. 13, 14, 23, and 24.

East, on true line bet. secs. 13 and 24.

Over rolling sandy bench land, through scattered short undergrowth.

13.60 Rim of Colorado River breaks, bears N. and S.; descend abruptly over abrupt broken E. slope of sandstone surface rock.

19.81 At the top of a nearly vertical sandstone ledge, about 200 ft. high, facing E., 85 ft. below rim, on the right side of the Colorado River, bears N.36°E. and S.36°W.

Set an iron post, 3 ft. long, 1 in. diam., 10 ins. in a hole drilled in solid sandstone, and in a mound of stone to top, for witness cor. to the meander cor. of frac. secs. 13 and 24, with brass cap marked

Chains	
	T43S R6E S13 / MC WC S24 / 1934
21.56	The estimated true point for the meander cor. of frac. secs. 13 and 24, on the right bank of the Colorado River, falls on a low narrow sandy bar at the base of nearly vertical sandstone ledge, bears N.36°E. and S.36°W., which is subject to overflow and where it is impracticable to set a permanent cor.
	Land, sandy bench and sandstone breaks of Colorado River, with general easterly exposure and drainage.
	Soil, shallow loose sand and sandstone surface rock; 3rd rate.
	Undergrowth, blackbrush, yellow top, shadscale, mountain rush, oose, weeds, and grass.
	No timber.
	Fair grazing land.
	From the cor. of secs. 13, 14, 23, and 24.
	S.0°03'W., bet. secs. 23 and 24.
	Descend gradually over rolling sandy bench land, through scattered short undergrowth.
4.20	Rim of breaks of the Colorado River, bears NW. and SE.; descend abruptly over general S. slope of broken sandstone surface rock.
9.00	Sandstone gulch, 75 ft. below sec. cor., heads NW. about 5.00 chs. dist. and drains S.70°E.; ascend gradual NE. slope.
19.60	Top of ascent on the SE. point of an elongated knoll, 80 ft. above gulch, covered with shallow coarse gravel, bears NW. about 12.50 chs. dist. to NW. end; descend abrupt broken S. slope of sandstone surface rock.
27.23	On sloping sandstone surface rock at the top of a sloping sandstone ledge 130 ft. high, facing SE., 180 ft. below top of ascent, on the right side of the Colorado River, bears N.38°E. and S.75°W.
	Set an iron post, 24 ins. long, 1 in. diam., 14 ins. in a hole drilled in solid sandstone, for witness cor. to the meander cor. of frac. secs. 23 and 24, with brass cap marked
	T43S R6E S23 | S24 MC WC 1934

Chains	
27.98	The true point for the meander cor. of frac. secs. 23 an 24, on E. end of a sandy river bar, subject to overflow where it is impracticable to establish permanent cor. on the right bank of the Colorado River.

Land, sandy bench and broken sandstone surface rock, wit general southeasterly exposure and drainage.

Soil, shallow loose patches of sand and gravel; 4th rate.

Undergrowth, blackbrush, shadscale, yellow top, mountain rush, oose, weeds and grass.

No timber.

Poor grazing land.

MEANDERS OF RIGHT BANK OF COLORADO RIVER IN T.43 S., R.6 E

Note: A portion of the true meander lines in fractional T.43 S., R.6 E., follows along a nearly perpendicular fac of sandstone wall of the Colorado River, where it is impossible to run the true meander lines. In these cases they were run on offset lines from which the true courses and distances were computed. In cases where angle points on the true meander lines fell on inaccessible faces of the wall, where it was impossible to measure the distance from the points on the offset meander lines to the angle points on the true meander lines, the distances were estimated and are so shown in the notes as estimated distances.

From the witness cor. to the meander cor. of frac. secs. 6 and 31, on S. bdy. of the township, which is West, 50 lks. dist. from the true point for said cor., and East, 10.93 chs. dist. from the cor. of Tps. 43 and 44 S., Rs. 5 and 6 E., on the right side of the Colorado River, heretofore described.

Thence upstream on offset meander lines of the right bank of the Colorado River in sec. 31 as follows:

N.9°12'W., 40.52 chs. This course ascends the E. face of a high nearly vertical sandstone wall of the river, over which it is impracticable to chain, and along the base of which it is impracticable to run on true meander line, I therefore determine the course and distance as follows. No suitable base line could be established for a triangulation because of high inaccessible sandstone ledges. Erect flag A at a point, East, 4.45 chs. dist. from the ¼ sec. cor. secs. 31 and 36. From the witness cor. to the meander cor. of frac. secs. 6 and 31, on S. bdy. of the township, flag A bears N.9°12'W. The course of this line therefore is N.9°12'W. and the distance is 40.52 chs.

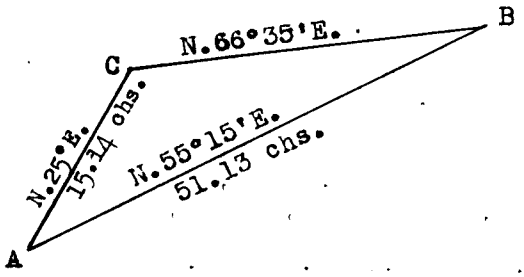
At 24.40 chs. (approximate distance), the estimated position of an angle point on the true meander line, bears West, 4.60 chs. dist., at end of this course the estimated position of an angle point on true meander line, bears East, 50 lks. dist.

Thence on offset meander line along high rim of river.

U. S. GOVERNMENT PRINTING OFFICE: 1961 6—8155

N.25°E., 5.00 chs.

N.55°15'E., 51.13 chs. This course crosses over inaccessible points and breaks along rim of river, over which it is impracticable to chain, I therefore determine the distance by triangulation as follows. Erect flag A at the beginning of this course and flag B, N.55°15'E. from A. From A, survey base line AC, N.25°E. 15.14 chs. dist., and erect flag C. From C, flag B bears N.66°35'E. All angles checked by deflection and base line double chained.



Distance by triangulation 51.13 chs.

At end of this course the estimated position of an angle point on true meander line bears, South, 75 lks. dist.

N.58°56'E., 12.42 chs. At end of this course intersect the witness cor. to the meander cor. of frac. secs. 30 and 31, which is West, 3.00 chs. dist., from the true point for said cor., on the right bank of the Colorado River.

Thence

From the true point for meander cor. of frac. secs. 6 and 31, on S. bdy. of the township, upstream on true meander line with the meanders of the right bank of the Colorado River, by chaining.

Over a sandy river bar (locally known as Gunsight Bar), along a sloping sandy bank about 8 ft. high, through dense undergrowth of willows, greasewood, salt grass, and weeds.

N.20°29'W.,	25.71 chs.	At 12.00 chs. on this course is the N. end of Gunsight Bar, at the base of high nearly vertical sandstone wall of river, bears N.20°29'W. and S., thence from 12.00 chs. point along the face of inaccessible wall on computed courses and distances. Sandstone wall is from 300 to 500 ft. high.
N.9°01'E.,	16.11 chs.	
N.30°54'E.,	5.28 chs.	
N.55°14'E.,	49.80 chs.	
N.62°18'E.,	15.40 chs.	At end of this course the true point for meander cor. of frac. secs. 30 and 31.

U. S. GOVERNMENT PRINTING OFFICE: 1921 6—8155

Land, river bar and broken sandstone ledges, with general easterly exposure and drainage.

Soil, deep fine silt sand, 2nd rate, on river bar; none on remainder of lines.

Undergrowth, willows, greasewood, salt grass, and weeds.

No timber.

Good grazing land on river bar; none on breaks.

Thence in sec. 30.

From the true point for the meander cor. of frac. secs. 30 and 31.

Over a narrow sandy river bar, along a sloping sandy bank about 8 ft. high, through dense willows, rabbit brush, greasewood, weeds, and grass.

N.88°39'E., 8.05 chs.

N.52°03'E., 12.49 chs. The true point for the meander cor. of frac. secs. 29 and 30, which is S.0°01'W., 1.00 ch. dist. from the witness cor. to said meander cor., heretofore described.

Land, sandy river bar, with general southerly exposure and drainage.

Soil, deep silt sand and gravel; 2nd rate.

Undergrowth, willows, rabbit brush, greasewood, weeds, and grass.

No timber.

Good grazing land.

Thence in sec. 29.

From the true point for the meander cor. of frac. secs. 29 and 30.

Over sandy river bar, along a sloping sandy bank, from 4 to 10 ft. high, through dense willows, rabbit brush, blackbrush, mountain rush, weeds, and grass.

N.60°E., 13.38 chs.

N.45°55'E., 23.08 chs.

N.18°E., 13.23 chs.

N.52°45'W., 8.44 chs.

N.81°21'W., 4.33 chs. At the end of this course is the NW. end of river bar, thence along a nearly vertical sandstone rim, from 10 to 180 ft. high.

N.77°56'W., 10.21 chs.

S.86°20'W., 11.28 chs. The witness cor. to the meander cor. of frac. secs. 29 and 30, which is 180 ft. directly above the true point for meander cor. of said secs., on the right bank of the Colorado River.

Land, sandy river bar and sandstone breaks, with general southeasterly and northerly exposure and drainage.

Soil, deep silt sand and gravel, and sandstone surface rock; 2nd rate.

Undergrowth, willows, rabbit brush, greasewood, blackbrush, mountain rush, weeds, and grass.

No timber.

Good grazing land on river bar.

Thence in sec. 30.

From the witness cor. to the meander cor. of frac. secs. 29 and 30, which is about 180 ft. directly above the true point for said meander cor., on the right bank of the Colorado River.

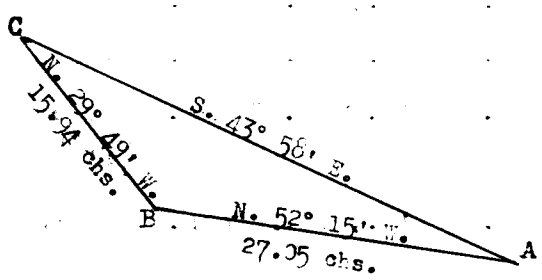
Thence upstream on offset meander lines along the top of a high rim on the right side of the Colorado River, as follows:

S.70°45'W., 9.88 chs. The estimated position of an angle point on the true meander line, bears North, 25 lks. dist.

S.83°30'W., 18.48 chs. The estimated position of an angle point on the true meander line bears, North, 2.00 chs. dist.

N.73°30'W., 16.46 chs. The estimated position of an angle point on the true meander line bears, North, 75 lks. dist.

N.52°15'W., 27.05 chs. This course passes over inaccessible sandstone breaks along rim of river, over which it is impracticable to chain, I therefore determine the distance by triangulation as follows. Erect flag A at the beginning of this course, and flag B, N.52°15'W. from A. From B, survey base line BC, N.29°49'W., 15.94 chs. dist., and erect flag C. From C, flag A bears S.43°58'E. All angles checked by deflection and base line double chained.



Distance by triangulation . . . . . 27.05 chs.

At the end of this course the estimated position of an angle point on true meander line bears, East, 1.00 chs. dist.

N.29°49'W., 15.94 chs. At the end of this course, intersect the witness cor. to the meander cor. of frac. secs. 19 and 30, which is West, 1.00 ch. dist. from estimated true point f said meander cor., heretofore described.

Thence

From the witness cor. to meander cor. of frac.secs.29 an 30, which is about 180 ft. directly above true point for sai meander cor. upstream on true meander line with the meande of the right bank of the Colorado River.

Along an inaccessible sandstone nearly vertical wall of river, from 180 to 530 ft. high, on computed courses and distances.

S.72°08'W., 9.80 chs.

S.88°56'W., 18.36 chs.

N.77°45'W., 16.17 chs.

N.52°12'W., 25.80 chs. At 8.90 chs.(approximate distan mouth of sandstone gulch, 170 f deep, drains from S.30°W. At 15.90 chs.(approximate distance mouth of sandstone gulch, 230 ft deep, drains from SW.

N.29°49'W., 15.94 chs. The estimated position of the true point for meander cor. of frac. secs. 19 and 30.

Land, sandstone breaks, with general northerly and northeasterly exposure and drainage.

No soil, undergrowth, timber, or grazing.

Thence in sec. 19.

From the witness cor. to the meander cor. of frac. secs. 19 and 30, which is West, 1.00 ch. dist. from the estimated position of the true point for the meander cor. of said secs., on the right bank of the Colorado River.

Thence upstream on offset meander lines along the top of a high rim, on the right side of the Colorado River, as follows:

N.6°53'W., 14.25 chs. The estimated position of an angle point on the true meander line bears, East, 40 lks. dist.

N.3°08'E., 35.65 chs. The estimated position of an angle point on the true meander line bears, East, 50 lks. dist.

N.1°52'W., 13.23 chs. The estimated position of an angle point on the true meander

line bears, East, 1.50 chs. dist.

N.18°04'E., 17.91 chs. The witness cor. to the meander cor. of frac. secs. 18 and 19, which is West, 75 lks. dist., from the estimated position of the true point for meander cor. of said secs., heretofore described.

Thence:

From the estimated position of the true point for meander cor. of frac. secs. 19 and 30, upstream with the meanders of the right bank of the Colorado River, in sec, 19, on computed courses and distances.

Along an inaccessible nearly vertical sandstone wall, from 300 to 530 ft. high.

N.9°16'W., 14.33 chs. At 5.00 chs.(Approximate dist.) sandstone gulch 20 ft. deep, drains from SW.

N.3°18'E., 35.66 chs. At 16.30 chs.(approximate distance), mouth of sandstone gulch, 75 lks. wide in the bottom, 320 ft. deep, with a stream of good water in bottom, 5 lks. wide, 3 ins. deep, drains from W.

N.2°28'E., 13.24 chs. At 6.20 chs.(approximate distance), mouth of sandstone gulch, 50 ft. deep, drains from W.

N.15°45'E., 17.69 chs. At 3.20 chs.(approximate distance), stream of good water, 5 lks. wide, 3 ins. deep, in mouth of Navajo Canyon, which is a sandstone gorge, 50 lks. wide in bottom, 320 ft. deep, drains from S.60°W.
At end of course, the estimated position of the true point for meander cor. of frac. secs. 18 and 19.

Land, sandstone breaks of river, with general easterly exposure and drainage.

No soil, undergrowth, timber, or grazing.

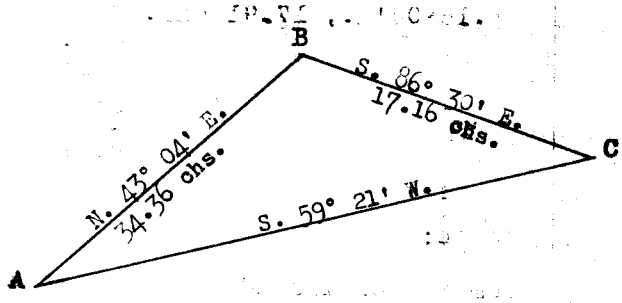
Thence in sec. 18.

From the witness cor. to the meander cor. of frac. secs. 18 and 19, which is West, 75 lks. dist., from the estimated position of the true point for meander cor. of said secs, on the right bank of the Colorado River.

Thence upstream on offset meander lines along the top of a high rim, on the right side of the Colorado River, as follows:

N.43°04'E., 34.36 chs. This course passes over sandstone points and inaccessible breaks of river, over which it is impracticable to chain, I therefore determine the distance by triangulation as follows. Erect flag A at the begining of this course, and flag B, N.43°04'E. from A. From B, survey base line BC, S.86°30'E., 17.16 chs. dist., and erect flag C. From C, flag A bears,

S.59°21'W. All angles checked by deflection and base lin
double chained.



Distance by triangulation 34.36 chs.

At 21.86 chs.(approximate distance), the estimated position of an angle point on the true meander line, bears West, 2.00 chs. dist. At the end of this course is a point on true meander line. The remainder of the meanders of the river in this sec. were run on true line.

Thence:

From the estimated position of the true point for the meander cor. of frac. secs. 18 and 19, upstream with the meanders of the right bank of the Colorado River, in sec. 18, on computed courses and distances.

Along a nearly vertical face of inaccessible sandstone wall of river, from 200 to 530 ft. high.

N.37°20'E., 20.08 chs.

N.49°05'E., 13.94 chs. At the end of this course is the W. end of what is locally known as Cane Bar, at the base of nearly vertical sandstone ledge, about 200 ft. high, bears S.49°W. and N45°E. Thence on true meander line, along a sloping sandstone surface rock bank, from 4 to 10 ft. high.

S.60°05'E., 6.06 chs.

N.59°45'E., 4.85 chs. At end of this course, mouth of Cane Wash, with a stream of good water, 4 lks. wide, 2 ins., deep in bottom, drains from N.10°W.

S.80°15'E., 7.80 chs. Along a sandstone ledge, from 10 to 15 ft. high. At 3.70 chs. on this course, point that is known as the "Crossing of the Fathers" at the W. end of sandy river bar, thence along a steep sandy bank, from 8 to 10 ft. high, through dense undergrowth of willows, greasewood, weeds, and grass.

S.56°32'E., 14.08 chs.

S.51°59'E., 18.73 chs. The true point for meander cor. of frac. secs. 17 and 18, which is S.0°01'W., 7.63 chs. dist., from the witness cor. to the

meander cor. of said secs., heretofore described.

Land, sandstone breaks and sandy river bar, with general southeasterly and southerly exposure and drainage.

Soil, none on sandstone breaks; deep loose silt sand and gravel, 2nd rate, on river bar.

Undergrowth, none on sandstone breaks; dense willows, greasewood, weeds, and grass on river bar.

No timber.

Good grazing land on river bar.

Thence in sec. 17.

From the true point for the meander cor. of frac. secs. 17 and 18, upstream with the meanders of the right bank of the Colorado River, on Cane Bar.

Over sandy river bar, along a sloping sandy bank about 8 ft. high, through dense undergrowth of willows, grease wood, blackbrush, weeds, and grass

S.63°12'E., 9.15 chs. The true point for the meander cor. of frac. secs. 17 and 20, which is West, 7.8[illegible] chs. dist. from the witness cor to the meander cor. of said secs., heretofore described.

Land, sandy river bar, from 5.00 chs. to 8.[illegible] chs. wide, with general southerly exposure and drainage.

Soil, deep sand and gravel; 2nd rate.

Undergrowth, willows, greasewood, blackbrush, weeds, and grass.

No timber.

Good grazing land.

Thence in sec. 20.

From the true point for the meander cor. of frac. secs. 17 and 20, upstream with the meanders of the right bank of the Colorado River, on Cane Bar.

Over sandy river bar, along a sloping sandy bank, from 5 to 10 ft. high, through dense undergrowth of willows, greasewood, shadscale, blackbrush, mountain rush, weeds, and grass.

S.63°55'E., 26.15 chs.

S.62°36'E., 4.74 chs.

S.67°11'E., 7.33 chs.

S.60°53'E., 10.79 chs. Point on the E. end of Cane Bar, on the true meander line, which

I designate as A. From this point the true meander line follows along a nearly vertic and sloping sandstone ledge, along which it is impracticabl to project line or chain. I therefore offset North, 2.50 dist., and run on offset meand lines along rim of river as follows:

S.63°15'E., 15.00 chs. The measured position of an angle point on true meander line bears, South, 1.75 chs. dist.

S.52°E., 18.48 chs. At the end of this course is a point, South, 37 lks. dist., from the meander cor. of frac. secs. 20 and 21, heretofore described.

Thence:

From the point designated as A on the E. end of Cane Bar, upstream on true line with the meanders of the right bank of the river, on computed courses and distances.

Along a broken nearly vertical and sloping inaccessible face of sandstone ledge, from 100 to 200 ft. high.

S.65°52'E., 14.68 chs.

S.57°33'E., 17.26 chs. The meander cor. of frac. secs. 20 and 21.

Land, sandy river bar and sandstone breaks, with general southwesterly exposure and drainage.

Soil, on river bar, deep loose silt sand and gravel, 2nd and 3rd rates; none on sandstone breaks.

Undergrowth, willows, greasewood, shadscale, blackbrush, mountain rush, weeds, and grass, on river bar.

No timber.

Good grazing land on river bar.

Thence in sec. 21.

The meander line from the meander cor. of frac. secs. 20 and 21, follows along the face of an inaccessible sandstone wall of river, over which it is impracticable to chain or project a line, I therefore run on offset lines as follows, from the meander cor.

N.0°01'E., 5.60 chs. Thence along rim of ledges, upstream on offset meander lines.

S.50°30'E., 32.83 chs. The estimated position of an angle point on the true meander line bears, South, 1.50 chs. dist.

S.63°45'E., 14.46 chs. The measured position of an

angle point on the true meander line, at the W. end of a sandy river bar, bears South, 1.50 chs. dist. The remainder of the meanders on the right bank of the river in this sec. was run on true line.

Thence

From the meander cor. of secs. 20 and 21, upstream with the meanders of the right bank of the Colorado River, on computed courses and distances, in sec. 21.

Along the face of a nearly vertical and sloping sandstone wall of river, from 100 to 300 ft. high.

S.56°28'E., 30.39 chs. At 20 lks., (approximate distance) mouth of draw, from N.

S.63°45'E., 14.46 chs. At end of this course, W. end of a sandy river bar, at the base of sandstone ledges, which bears N.63°45'W. and S.60°E.

S.24°22'E., 21.75 chs. Along sandy river bar, on sandy bank, 5 to 8 ft. high, through dense undergrowth of willows, greasewood, weeds, and grass, on true meander line by chaining. At end of this course, true point for meander cor. of frac. secs. 21 and 28, which is West, 85 lks. dist. from the witness cor. to the meander cor. of said secs., heretofore described.

Land, sandstone breaks and sandy river bar, with general southwesterly exposure and drainage.

Soil, none on sandstone breaks; deep loose silt sand and gravel, 2nd rate, on river bar.

Undergrowth, willows, greasewood, weeds, and grass, on river bar; none on breaks.

No timber.

Good grazing land on sandy bar.

Thence in sec. 28.

From the true point for the meander cor. of frac. secs. 21 and 28, upstream with the meanders of the right bank of the Colorado River.

Over sandy river bar, along a sloping sandy bank from 2 to 10 ft. high, through dense undergrowth of willows, greasewood, weeds, and grass.

S.21°04'E., 23.36 chs.

S.29°17'E., 23.01 chs. At end of this course, leave a flag point which I designate as A, at the SE. end of sandy bar. From this point the meander line follows along the face of an inaccessible nearly vertical sandstone wall, from 100 to 260

ft. high, along which it is impracticable to chain, I therefore offset North, 50 lks. dist to the top of ledge, and run on offset meander lines near the rim of ledges as follows:

S.24°45'E., 30.03 chs. At 18.40 chs. on this course, the estimated position of an angle point on the true meander line bears, West, 3.80 chs. dis At end of this course, the witness cor. to the meander cor. o frac. secs. 27 and 28, which is N.0°02'E., 3.00 chs. dist., fro the estimated position of the true point for meander cor. of said secs., heretofore describe

Thence

From the point designated as A at the SE. end of river bar, upstream with the meanders of the right bank of the river, on computed courses and distances.

Along the inaccessible face of a nearly vertical sandstor wall, from 100 to 260 ft. high, bears N.15°W. and S.14° 46'E.

S.14°46'E., 17.28 chs.

S.32°55'E., 16.09 chs. At end of this course is the estimated position of the true point for the meander cor. of frac. secs. 27 and 28.

Land, sandy river bar, from 1.50 to 10.00 chs. wide, and sandstone breaks.

Soil, deep loose silt sand and gravel, 2nd and 3rd rates, on river bar; none on sandstone breaks.

Undergrowth, willows, greasewood, weeds, and grass, on river bar; none on sandstone breaks.

No timber.

Good grazing land on river bar.

Thence in sec. 27.

From the witness cor. to the meander cor. of frac. secs. 27 and 28, which is N.0°02'E., 3.00 chs. dist., from the estimated position of the true point for the meander cor. of said secs., on the right side of the Colorado River.

Thence upstream on offset meander lines along the top of rim of inaccessible sandstone ledge, on the right side of the Colorado River as follows:

S.24°45'E., 9.86 chs. The estimated position of an angle point on the true meander line bears, West, 50 lks. dist.

S.53°E., 3.17 chs. At end of this course, the witness cor. to the meander cor. of frac. secs. 27 and 34, which is East, 50 lks. dist., from the estimated position of the true point for meander cor. of said secs., heretofore described.

Thence:

From the estimated position of the true point for meander cor. of frac. secs. 27 and 28, upstream with the meanders of the right bank of the Colorado River, in sec. 27, on computed courses and distances.

Along the face of a nearly vertical sandstone wall, about 260 ft. high, that is inaccessible.

S.31°23'E., 6.97 chs.

S.53°E., 3.17 chs. The estimated position of the true point for meander cor. of frac. secs. 27 and 34.

Land, breaks and sandstone ledges, with no soil, timber, undergrowth, or grazing.

Thence in sec. 34.

From the witness cor. to the meander cor. of frac. secs. 27 and 34, which is East, 50 lks. dist., from the estimated position of the true point for meander cor. of said secs., on the right side of the Colorado River.

Thence upstream on offset meander lines along the top of a high rim, on the right side of the Colorado River, as follows:

S.46°E., 8.73 chs. At end of this course a point on the true meander line, bears West, 50 lks. dist.

Thence:

From the estimated position of the true point for the meander cor. of frac secs. 27 and 34, upstream with the meanders of the right bank of the Colorado River, in sec. 34, on computed course and distance.

Along the face of an inaccessible wall, about 280 ft. high.

S.46°E., 8.73 chs. At the end of this course is the NW. end of Miskin Bar, at the base of nearly vertical sandstone ledge, 280 ft. high, bears N.46°W. and S.46°E., thence on true meander line by chaining.

S.12°22'E., 33.37 chs. Along a sloping sandy bank, from 4 to 8 ft. high, on sand and gravel river bar, known as Miskin Bar, through dense undergrowth of willows, greasewood, rabbit brush, mountain rush, blackbrush, weeds, and grass.

S.28°03'E., 19.54 chs.

S.42°50'E., 14.62 chs.

N.87°41'E., 8.96 chs.

N.72°42'E., 7.30 chs.

N.47°25'E., 19.69 chs. At 9.00 chs. leave sandy bank, thence along a sloping sandston surface rock bank, from 5 to 10 ft. high. At end of this course leave flag point designated as A at the NE. end of Miskin Bar, at base of a sloping sandstone ledge, bears NW. and N.47°E. The true meander line from this point follows along an inaccess ible sloping sandstone ledge, along which it is impracticable to chain or project a line. I therefore offset North, 1.50 ch dist., and run on offset meande lines along rim of river as follows:

N.46°15'E., 6.26 chs. The estimated position of an ang point on true meander line bears, East, 1.75 chs. dist

N.21°E., 11.84 chs. The estimated position of an ang point on true meander line bears, East, 1.00 ch. dist.

N.22°26'E., 5.38 chs. At end of this course is the meander cor. of frac. secs. 34 and 35, heretofore described.

Thence:

From the point designated as A, on the NE. end of Miskin Bar, upstream with the meanders of the river, on compute courses and distances.

Along a sloping inaccessible face of sandstone ledge, from 20 to 75 ft. high.

N.47°06'E., 8.56 chs.

N.17°32'E., 11.59 chs.

N.11°57'E., 5.08 chs. The meander cor. of frac. secs. 34 and 35, near the base of a sloping sandstone ledge, which bears S.12°W. and NW., and at S. en of sand and gravel bar.

Land, sandstone breaks, and sand and gravel river bar, with general southerly exposure and drainage.

Soil, deep silt sand and gravel, 2nd and 3rd rates, on river bar; none on sandstone breaks.

Undergrowth, willows, greasewood, rabbit brush, mountain rush, blackbrush, weeds, and grass.

No timber.

Good grazing land on river bar.

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Thence in sec. 35.

From the meander cor. of frac. secs. 34 and 35, on the right bank of the Colorado River, heretofore described.

Upstream with the meanders of the right bank of the river, on a sand and gravel bar.

Along a sloping sandstone bank, about 10 ft. high, through scattered willows, blackbrush, weeds, and grass.

N.21°25'E., 31.20 chs. The meander cor. of frac. secs. 26 and 35, heretofore described.

Land, river bar, with general easterly exposure and drainage.

Soil, shallow and deep loose sand and gravel, lying on sandstone bedrock; 3rd rate.

Undergrowth, blackbrush, willows, mountain rush, weeds, and grass.

No timber.

Fair grazing land.

Thence in sec. 26.

From the meander cor. of frac. secs. 26 and 35, on the right bank of the Colorado River.

Upstream with the meanders of the right bank of the river, on a sand and gravel bar.

Along a sloping sandstone bank, about 8 ft. high, through undergrowth of willows, greasewood, rabbit brush, blackbrush, mountain rush, weeds, and grass.

N.26°59'E., 21.05 chs. At 4.00 chs. on this course leave sandstone bank, thence along a sandy sloping bank, from 4 to 6 ft. high, through dense undergrowth.

N.6°12'E., 6.32 chs. At 2.20 chs., mouth of draw, drains from the W.

N.14°14'W., 14.40 chs.

N.53°38'W., 8.85 chs.

N.74°47'W., 11.31 chs. The true point for the meander cor. of frac. secs. 26 and 27, which is N.0°03'E., 3.00 chs. dist., from the witness cor. to the meander cor. of said secs. heretofore described.

Land, sand and gravel bar, with general easterly exposure and drainage.

Soil, shallow and deep loose sand and fine gravel; 2nd and 3rd rates.

Undergrowth, willows, rabbit brush, mountain rush, greasewood, blackbrush, weeds, and grass.

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No timber.

Good grazing land.

Thence in sec. 27.

The greater portion of the meanders of the river in this sec. follows along a high nearly vertical sandstone ledge, along which it is impracticable to project a true line. I therefore begin at the ¼ sec. cor. secs. 26 and 27, which is S.0°03'W., 7.29 chs. dist., from the true point for meander cor. of frac. secs. 26 and 27, thence upstream on offset meander lines, near the rim of nearly vertical ledge, from 200 to 400 ft. high., as follows:

N.63°W., 23.20 chs.	The estimated position of an angle point on the true meander line bears, North, 3.00 chs. dis
N.68°15'W., 19.67 chs.	At 6.75 chs. on this course the estimated position of an angle point on the true meander line bears, North, 75 lks. dist. At end of this course the estimated position of an angle point on the true meander line bears East, 50 lks. dist.
N.54°30'W., 7.19 chs.	At end of this course the estimated position of an angle point on the true meander line bears, East, 75 lks. dist.
N.43°W., 12.16 chs.	The estimated position of an angle point on the true meander line bears, East, 75 lks. dist.
N.20°30'W., 9.98 chs.	The witness cor. to the meander cor. of frac. secs. 22 and 27, which is West, 50 lks. dist., from the estimated position of the true point for the meander cor. of said secs., heretofore described

Thence:

From the true point for the meander cor. of frac. secs. 26 and 27, upstream with the meanders of the right bank of the Colorado River in sec. 27, on computed courses and distances.

Along a sandy sloping bank of river bar, from 2 to 6 ft. high, through dense undergrowth of willows, blackbrush, greasewood, weeds, and grass.

N.73°12'W., 21.60 chs.	At 5.50 chs. on this course is the NW. end of river bar, at the base of nearly vertical sandstone ledge, which bears, N.73°12'W. and SE., thence along the face of inaccessible sandstone wall of river, from 200 to 400 ft. high. At 16.00 ch (approximate distance), the mouth of a sandstone gulch, 100 ft. deep, drains from S.30°W.

N.87°42'W., 6.27 chs.	At end of this course is the mouth of a sandstone gulch, 50 ft. deep, drains from S.75°W.
N.70°40'W., 12.19 chs.	At 7.20 chs., mouth of sandstone gulch, 75 ft. deep, drains from S.75°W.
N.53°19'W., 6.99 chs.	
N.43°W., 12.16 chs.	
N.21°50'W., 10.07 chs.	The estimated position of the true point for meander cor. of frac. secs. 22 and 27, which is East, 50 lks. dist., from the witness cor. to the meander cor. of frac. secs. 22 and 27.

Land, sandstone ledges and breaks, and sandstone river bar, with general northeasterly exposure and drainage.

Soil, deep loose silt sand and gravel, 3rd rate, on river bar; none on sandstone breaks.

Undergrowth, willows, greasewood, blackbrush, weeds, and grass, on river bar; none on sandstone breaks.

NO timber.

Poor grazing land.

Thence in sec. 22.

From the witness cor. to the meander cor. of frac. secs. 22 and 27, which is West, 50 lks. dist. from the estimated position of the true point for the meander cor. of said secs., on the right rim of the Colorado River.

Upstream on offset meander lines along the top of high rim of inaccessible nearly vertical sandstone ledge, on the right side of the Colorado River, as follows:

N.20°30'W., 9.24 chs.	The estimated position of an angle point on the true meander line bears, East, 1.75 chs. dist.
N.5°E., 9.45 chs.	The measured position of an angle point on the true meander line bears, East, 50 lks. dist., at the S end of a sandy river bar. The remainder of the meanders of right bank of the river in this sec. were run on true line.

Thence:

From the estimated position of the true point for meander cor. of frac. secs. 22 and 27, upstream with the meanders of the right bank of the Colorado River, in sec. 22, on computed courses and distances.

Along the face of an inaccessible nearly vertical sandstone ledge, from 150 ft. to 400 ft. high.

N.12°55'W., 8.88 chs.

N.2°35'W., 9.42 chs. The S. end of a sandy river ba at the base of nearly vertical sandstone ledge, about 200 ft. high, bears S.2°35'E. and N.20 thence over sandy bar, from 2.0 to 5.00 chs. wide, along a sloping sandy bank, from 3 to 8 ft. high, through dense under growth of willows, greasewood, blackbrush, mountain rush, weed and grass, on true meander line

N.30°56'E., 39.26 chs.

N.7°57'E., 28.47 chs. The true point for the meander cor. of frac. secs. 15 and 22, which is East, 2.00 chs. dist., from the witness cor. to the meander cor. of said secs., at the N. end of sandy river bar, near base of sandstone ledge.

Land, sandstone breaks and sandy river bar, with general easterly exposure and drainage.

Soil, deep loose silt sand, 2nd rate, on river bar; none on sandstone breaks.

Undergrowth, willows, greasewood, blackbrush, mountain rush, weeds, and grass.

No timber.

Good grazing on river bar; none on sandstone breaks.

Thence in sec. 15.

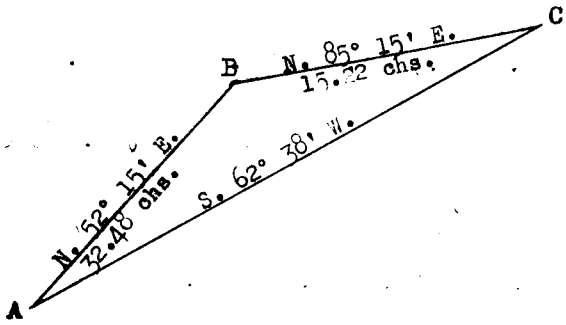
Line to the N. of the true point for meander cor. of frac. secs. 15 and 22, follows along the face of an inaccessible ledge, where it is impracticable to project a line, I therefore commence at the witness cor. to the meander cor. of said secs., which is West, 2.00 chs. dist. from true point and run on offset meander line, upstream along the rim of a nearly vertical ledge, on the right side of the river as follows:

N.23°15'E., 9.26 chs. The estimated position of an angle point on the true meander line bears, East, 1.00 chs dist

N.29°E., 15.67 chs. The measured position of an angle point on the true meander line bears, East, 50 lks. dist.

N.52°15'E., 32.48 chs. This course crosses inaccessibl sandstone points and breaks of of Last Chance Creek, over which it is impracticable to chain, I therefore determine the distance by triangulation as follows. Erect flag A at the begining of this course, and flag B at the witness cor. to the meander cor. of frac. secs. 14 and 15, which bears, N.52°15

from A. From B, survey base line BC, N.85°15'E., 15.22 chs. dist. and erect flag C. From C, flag A bears, S.62°38'W. All angles checked by repetition and deflection and base line double chained.



Distance by triangulation 32.48 chs.

At 20.48 chs. (approximate distance), the estimated position of an angle point on the true meander line bears, North, 3.00 chs. dist. At end of course is the witness cor. to the meander cor. of frac. secs. 14, and 15, which is N.0°03'E., 1.00 ch. dist., from the estimated position of the true point for meander cor. of said secs.

Thence:

From the true point for the meander cor. of frac. secs. 15 and 22, upstream with the meanders of the right bank of the river, in sec. 15, on computed courses and distances.

Along the face of an inaccessible sandstone wall of river, from 150 to 250 ft. high.

N.17°20'E., 8.91 chs.

N.27°23'E., 15.43 chs.

N.45°17'E., 22.07 chs. At 2.00 chs. (approximate distance), the mouth of Last Chance Creek, which is a sandstone gorge, about 2.00 chs. wide, 250 ft. deep, draining from N.30°W.

N.70°34'E., 10.00 chs. At 8.80 chs. the mouth of a sandstone gulch, about 200 ft. deep, drains from the north. At end of this course the estimated position of the true point for meander cor. of frac. secs. 14 and 15, heretofore described.

Land, sandstone breaks and ledges, with general southeasterly exposure and drainage.

No soil, undergrowth, timber, or grazing.

Thence in sec. 14.

From the witness cor. to the meander cor. of frac. secs. 14 and 15, which is N.0°03'E., 1.00 ch. dist. from the estimated position of the true point for meander cor. of

said secs., on the right side of the Colorado River.

Upstream on offset meander lines along the broken top of rim of inaccessible sandstone wall of river, as follows:

N.85°15'E., 5.12 chs.	The estimated position of an angle point on the true meander line bears, South, 2.50 chs.dis
S.56°E., 34.24 chs.	At 10.00 chs. on this course, the estimated position of an angle point on the true meander line. At end of this course, the estimated position of an angle point on the true meander line bears, West, 2,50 chs. dist.
S.26°12'E., 25.80 chs.	At end of this course is the witness cor. to the meander cor of frac secs. 14 and 23, which is East, 1.00 ch. dist. from the true point for the meander cor. of said secs., heretofore described.

Thence:

From the estimated point for the meander cor. of frac. secs. 14 and 15, upstream with the meanders of the right bank of the Colorado River, in sec. 14, on computed courses and distances.

Along the face of an inaccessible sandstone wall of river from 100 to 200 ft. high.

S.78°05'E., 5.21 chs.	
S.69°33'E., 8.85 chs.	
S.52°23'E., 22.21 chs.	
S.29°07'E., 26.49 chs.	The true point for the meander cor. of frac. secs. 14 and 23, on the W. end of a narrow sand and gravel river bar, at the base of a nearly vertical sandstone ledge, 100 ft. high, bears N.29°07'W. and S.30°E.

Land, sandstone breaks and ledges, with general southwesterly exposure and drainage.

No soil, undergrowth, timber, or grazing.

Thence in sec. 23.

From the true point for the meander cor. of frac. secs. 14 and 23, upstream with the meanders of the right bank of the Colorado River.

Over a sand and gravel river bar, along a sloping sandy bank, from 2 to 8 ft. high, through dense willows, greasewood, blackbrush, weeds, and grass.

S.21°44'E., 25.40 chs.

S.41°07'E., 12.40 chs.

N.75°01'E., 19.22 chs. At 12.70 chs. point on this course is the E. end of sand and gravel river bar, thence along a sloping sandstone ledge, about 130 ft. high. At end of this course is the true point for meander cor. of frac. secs. 23 and 24, which is S.0°03'W., 75 lks. dist. from the witness cor. to the meander for of said secs., heretofore described.

Land, river bar and breaks, with general southerly exposure and drainage.

Soil, deep loose sand and gravel and sandstone surface rock; 3rd rate.

Undergrowth, willows, greasewood, blackbrush, weeds, and grass, on river bar; none on sandstone breaks.

No timber.

Fair grazing land on river bar; none on breaks.

Thence in sec. 24.

From the witness cor. to the meander cor. of frac. secs. 23 and 24, which is N.0°03'E., 75 lks. dist. from the true point for meander cor. of said secs., on the right bank of the Colorado River.

Upstream on offset meander lines along the broken top of rim of nearly vertical inaccessible sandstone wall of river, as follows:

N.35°15'E., 18.70 chs. The estimated position of an angle point on the true meander line, bears East, 1.75 chs. dist.

N.37°E., 15.00 chs. The witness cor. to the meander cor. of frac. secs. 13 and 24, which is West, 1.75 chs. dist. from the estimated position of the true point for meander cor. of said secs., heretofore described.

Thence:

From the true point for the meander cor. of frac. secs. 23 and 24, upstream with the meanders of the right bank of the Colorado River, in sec. 24, on computed courses and distances.

Along the face of an inaccessible sandstone wall of river, from 130 to 200 ft. high.

N.38°03'E., 20.35 chs.

N.37°E., 15.00 chs. The estimated position of the true point for meander c r. of frac. secs. 13 and 24.

Land, sandstone breaks and ledges, with general southeasterly exposure and drainage.

No soil, undergrowth, timber, or grazing.

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Thence in sec. 13.

From the witness cor. to the meander cor. of frac. secs. 13 and 24, which is West, 1.75 chs. dist., from the estimated position of the true point for meander cor. of said secs., on the right side of the Colorado River.

Upstream on offset meander lines along the top of rim of nearly vertical sandstone ledge, on the right side of the river as follows:

N.37°E., 84.65 chs.	At 43.00 chs. on this course, the estimated position of an angle point on the true meander line, bears East, 1.20 chs. dist. At 66.00 chs. on this course, the estimated position of an angle point on the true meander line, bears East, 2.00 chs. dist. At end of this course, the estimated position of an angle point on the true meander line, bears East, 2.50 chs. dist.
N.35°15'E., 15.36 chs.	At end of this course the witness cor. to the meander cor. of frac secs. 12 and 13, which is West, 20 lks. dist. from the estimated point for the meander cor. of said secs., heretofore described.

Thence:

From the estimated position of the true point for the meander cor. of frac. secs. 13 and 24, upstream with the meanders of the right bank of the river, in sec. 13, on computed courses and distances.

Along the face of a nearly vertical sandstone wall of river, from 200 to 350 ft. high.

N.36°24'E., 42.67 chs.	
N.38°34'E., 23.49 chs.	
N.38°12'E., 18.96 chs.	At 5.00 chs. on this course, the mouth of a sandstone gulch, 100 ft. deep, from N.60°W.
N.27°38'E., 14.15 chs.	The estimated position of the true point for meander cor. of frac. secs. 12 and 13

Land, sandstone breaks and ledges, with general southeasterly exposure and drainage.

No soil, undergrowth, timber, or grazing.

Thence in sec. 12.

From the witness cor. to the meander cor. of frac. secs. 12 and 13, which is West, 20 lks. dist. from the estimated position of the true point for the meander cor. of said secs., on the right bank of the Colorado River.

Upstream on offset meander lines along the broken top of rim of river, at top of nearly vertical inaccessible sandstone ledge, as follows;

N.43°38'E., 55 lks. At end of this course is the witness cor. to the meander cor. of frac. secs. 7 and 12, on E. bdy. of the township, which is North, 20 lks. dist. from the estimated position of the meander cor. of said secs., heretofore described.

Thence

From the estimated position of the true point for the meander cor. of frac. secs. 12 and 13, upstream with the meanders of the right bank of the river, in sec. 12, on computed courses and distances.

Along the face of an inaccessible nearly vertical sandstone wall of river, about 200 ft. high.

N.42°E., 27 lks. The estimated position of the true point for the meander cor. of frac. secs. 7 and 12.

Sandstone breaks, with no soil, undergrowth, or timber.

General Description

The land within the fractional township 43 south, range 6 east, is very rough and broken, and about one half of the total area is sandstone ledges and surface rock. It is broken by the north breaks of the Colorado River and high mesa points extending from mesa lands to the North. The general elevation of the lower bench lands, from the foot of the mesa points to the breaks of river is about 3400 to 3800 ft. above sea level, while the tops of the mesa points are from 900 to 1150 ft. higher, and are rimmed with inaccessible sandstone breaks and ledges. The soil on the mesa tops is a deep and shallow loose sand lying on sandstone bedrock, and may be classified as 2nd and 3rd rates. The soil in general on the bench lands consists of a shallow loose sand, lying on bedrock, and may be classified as 3rd rate. The soil on the mesa and bench lands supports a scattered short undergrowth, which consists in general of blackbrush, mountain rush, yellow top, oose, shadscale, weeds, and grass, that affords fair grazing for stock. The mesa land can only be reached by stock from the lower bench at points up Last Chance Creek about 5 miles North of the north boundary of the township. The entire fractional township is of sandstone formation, and the general exposure and drainage is southerly.

The Colorado River, which forms the south boundary of the fractional township, flows in a general southwesterly direction in a sandstone canyon from 200 to 500 ft. deep. A stream of good water, 5 lks. wide, 3 ins. deep, in a boxed sandstone gorge about 320 ft. deep, enters the township in the NW¼ SW¼ sec. 19, and flows easterly a short distance to the Colorado River. Navajo Canyon, which is a narrow gorge about 320 ft. deep, with a stream of good water, 5 lks. wide, 3 ins. deep, in the bottom, enters the township in the NW¼ NW¼ sec. 19, and flows in a easterly direction a short distance to the Colorado River. The Left Fork of Cane Wash, enters the township at a point, South, 7.10 chs. dist., from the cor. of secs. 7, 12, 13 and 18, along which is found small seeps and intermittent streams of good water,

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drains in a southeasterly direction through the NW¼ of sec. 18, to its junction with the Right Fork of Cane Was in the SE¼ NW¼ sec. 18, and forming Cane Wash, which drains in a southeasterly direction about 30.00 chs. dis to the Colorado River. A stream of good water, 4 lks. wide, 2 ins. deep, is located in Cane Wash. The Right Fork of Cane Wash which is dry, crosses the north boundary of sec. 6, and drains in a southerly direction throu secs. 6 and 7, to its junction with the Left Fork of Can Wash in sec. 18. The Center Fork of Cane Wash which is dry, enters the township near the ¼ sec. cor., secs. 1 and 6, and drains in a southeasterly direction through sec. 6 to its junction with the Right Fork of Cane Wash. A small seep of good water is located in the bottom of the Left Fork of Cane Wash, near the west boundary of th township, in the NW¼ NW¼ sec. 18. A small seep of alkal water is located in a small draw in the northeastern portion of the NW¼ NW¼ sec. 18. Last Chance Creek, a stream of alkali water, 6 lks. wide, 2 ins. deep, enters the township on the north boundary of sec. 4, and flows in a southeasterly direction to its junction with the Colorado River in the SE¼ of sec. 15. A shallow sandy dry wash, locally known as Cottonwood Wash, drains in a southeasterly direction through the NE¼ NE¼ of sec. 1.

The northern portion of what is locally known as Gunsight Bar is found on the right side of the Colorado River in the SW¼ SW¼ of frac. sec. 31. The soil on this river bar consists of a deep fine silt sand, lying on a course gravelly subsoil, and may be classified as 2nd rate, and supports a dense undergrowth of willows, grease wood, salt grass, and weeds. An old water wheel about 8 ft. in diam., is located in the W. edge of the river, North, 5.80 chs. dist., from the witness cor. to the mean der cor. of frac. secs. 6 and 31, Tps. 43 and 44 S., R.6 E. This bar is from 1.00 to 3.50 chs. wide, and subject to overflow.

A river bar from 2.00 to 9.00 chs. wide is located in the SE. portions of frac. secs. 29 and 30. The soil on this river bar is a deep silt sand and fine gravel, lying on a gravelly subsoil, and may be classified as 2nd rate, which supports a dense undergrowth of willows along the river bank, and from there to the sandstone ledges an undergrowth of rabbit brush, greasewood, blackbrush, mountain rush, weeds, and grass. This bar cannot be reach ed by stock from the bench lands to the W.

Cane Bar, which is located in portions of secs. 17, 18, and 20, is from 2.00 to 8.00 chs. wide, with a soil of deep loose silt sand and fine gravel, lying on a gravelly subsoil, that may be classified as 2nd rate. The undergrowth on this bar consists of dense willows along the river bank that is subject to overflow, and from there to the sandstone ledges is found greasewood, rabbit brush, mountain rush, blackbrush, weeds, and grass, which affords good grazing for stock. Stock can reach Cane Bar a short distance E. of the mouth of Cane Wash, over a rough trail on sandstone surface rock. At a point easterly about 3.70 chs. dist. from the mouth of Cane Wash is what is known as the "Crossing of the Fathers". This place was used as a ford at some early time, it being possible to reach the higher bench lands on both the N. and S. sides of the Colorado River. A few small pits were found on Cane Bar, which indicates that placer mining prospecting has been carried on in some of the gravel beds on this bar.

A river bar from 2.00 to 10.00 chs. wide is located in portions of frac. secs. 21 and 28. The soil on this bar consists of a deep silt sand and fine gravel, lying on coarse gravelly subsoil, and may be classified as 2nd

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rate, which supports a dense undergrowth of willows along the river bank that is subject to overflow, and from there to the sandstone ledges is found an undergrowth of greasewood, rabbit brush, mountain rush, blackbrush, weeds, and grass. This bar cannot be reached by stock from the bench lands to the N.

Miskin Bar, which is located in the SW. portion of sec. 34 is a sand, gravel, and sandstone surface rock bar about 20.00 chs. wide. Soil on the portions near the bank of the river which is subject to overflow consists of a deep silt sand, lying on a gravelly subsoil, and may be classified as 2nd rate, while the soil on the higher portions of the bar consists of loose sand and coarse gravel, lying on sandstone surface rock, and may be classified as 3rd and 4th rates. The undergrowth on this bar consists of dense willows along the river bank that is subject to overflow, and from there to the sandstone ledges and breaks is found blackbrush, greasewood, rabbit brush, mountain rush, weeds, and grass. A few small pits were found in the gravel beds on this bar, which indicates that placer mining prospecting has been carried on there at some time in the past. This bar can be reached by stock over a rough rocky trail from the bench lands to the North.

A sand, gravel, and sandstone river bar, consisting of all of frac. sec. 35 and nearly all of frac. sec. 26, in this township, has a soil of deep loose sand and gravel, lying on sandstone bedrock, that may be classified as 2nd and 3rd rates. Undergrowth on this bar consists of dense willows along the river bank and from there to the sandstone ledges is found blackbrush, greasewood, rabbit brush, mountain rush, oose, weeds, and grass, which affords fair grazing for stock. It is only possible for stock to reach this bar by following notches cut in the steep sandstone surface rock of the breaks to the W. A few small pits were found in the gravel beds on this bar, which indicates that placer mining prospecting has been carried on there at some time in the past.

A river bar, from 2.00 to 6.00 chs. wide, is located in the E. portion of frac. sec. 22. Soil on this bar consists of deep loose silt sand and fine gravel, lying on a gravelly subsoil, that may be classified as 2nd rate, and supports an undergrowth of dense willows on the portion subject to overflow along the river bank, and from there to the sandstone ledges is found greasewood, rabbit brush, mountain rush, weeds, and grass. It is impossible for stock to reach this bar from the bench land to the West.

A river bar, from 1.00 to 4.00 chs. wide, is located in the SW. portion of frac. sec. 23. Soil, on this bar consists of deep loose silt sand and gravel, and may be classified as 3rd rate, that supports an undergrowth of dense willows along the river bank that is subject to overflow. From there to the sandstone ledges and breaks is found a dense undergrowth of greasewood, blackbrush, mountain rush, rabbit brush, weeds, and grass. It is impossible for stock to reach this bar from the bench land to the North

The only timber found in the township is a few scattered ash and cottonwood found along the bottoms of the deep narrow canyons.

No permanent roads or trails were found in the township, but it is possible to travel across the township by following along the sandy benches near the foot of the mesa points. The walls of an old rock house is located in the SW¼ NW¼ of sec. 10.

No settlers or improvements were located in this township and no land is suitable for cultivation. The land in general is suitable for the grazing of stock, and was being used for that purpose at the time of the survey.

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No indications of coal, oil, oil shale, or mineral were noted in this fractional township.

The nearest settlement is Lee's Ferry, Arizona, which is located about 50 miles in a southwesterly direction from the township. Marble Canyon, Arizona, is located in a southwesterly direction, about 7 miles dist., from Lee's Ferry, and at the time of the survey a Post Office was being mantained at that point.

In some places on this township the positions for the cors. fell on sloping sandstone surface rock, where it was impossible to set the regulation 2 in. iron posts for sec. cors., and the 1 in. iron posts for ¼ sec. cors. and meander cors. Where the positions for the cors. fell on these places, the posts were cut off and made to be 24 ins. long, and set in holes drilled in solid sandstone surface rock about 14 ins. deep. The 1 in. iron posts were used in lieu of the 2 in. iron posts for sec. cors.

The mean magnetic declination was found to be 16°30'E.

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BOOK A-503

4—680
(August, 1926)

FIELD ASSISTANTS.

NAMES.	CAPACITY.
Edward Eliason	Chainman
Molen Roper	Chainman
Bert Swain	Chainman
Reed Overson	Chainman
Ross A. Saye	Axman
Arthur W. Warenski	Axman
Ray R. Morgan	Axman

CERTIFICATE OF UNITED STATES SURVEYOR

I, Elliot Bird, U. S. Surveyor, hereby certify upon honor that, in pursuan of special instructions received from the District Cadastral Engineer for Utah bearing date of the 11th day of February, 19 16, I have well, faithfully, and tru in my own proper person, and in strict conformity with said instructions, the Manual of Surveying Instru tions, and the laws of the United States, surveyed all those parts or portions of north, east, and south boundaries and subdivision; and meanders of the right bank of the Colorado River in fractional T.43 S., R.6 E.

of the Salt Lake Meridian, in the State of Utah, which are represented i the foregoing field notes as having been executed by me, and under my direction; and that all the corners o said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instru tions, and the special written instructions of the District Cadastral Engineer for Utah and in the specific manner described in the field notes, and that ~~the foregoing~~ are the original field notes o such survey.

Salt Lake City, Utah
May, 11, 1935.

Elliot Bird
U. S. Surveyo

APPROVAL

OFFICE OF U. S. SUPERVISOR OF SURVEYS,

Denver, Colorado JUN 1935, 19

The foregoing field notes of the survey of north, east, and south boundaries and subdivision; and meanders of the right bank of the Colorado River in fractional T.43 S., R. 6 E.

executed by Elliot Bird, U.S. Surveyor,

under his special instructions dated February 11, 19 16, having bee critically examined, and the necessary corrections and explanations made, the said field notes, and the survey they describe, are hereby approved.

Dwight L. Simon
U. S. Supervisor of Surveys

~~I certify that the foregoing transcript of the field notes of the above described surveys in~~

, ~~has been correctly copied from the original notes on file in this office.~~

Dwight L. Simon
U. S. Supervisor of Surveys

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BOOK A-503 "D"

FIELD NOTES

OF THE SURVEY OF THE

MEANDERS OF THE RIGHT BANK OF THE COLORADO RIVER

IN FRACTIONAL T.44 S., R.6 E.

Of the Salt Lake *Meridian,*

the State of Utah

EXECUTED BY

Elliot Bird, U.S. Surveyor

the capacity of U. S. Surveyor, under Special Instructions dated February 11,

16, *issued by the District Cadastral Engineer to govern surveys included in Group*

52, *which were approved by the Commissioner of the General Land*

nce, April 5, *19* 16, *and* supplemental *Assignment Instructions dated* December 1, *19* 33

Survey commenced April 12, *19* 34

Survey completed April 12, *19* 34

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BOOK A-503

INDEX DIAGRAM.

Township 44 South, *Range* 6 East

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MEANDERS OF RIGHT BANK OF COLORADO RIVER IN T. 44 S., R. 6 E.

The survey of fractional township 44 south, range 6 east Salt Lake Meridian, Utah, was commenced April 12, 1934, and executed with Buff and Buff light mountain transit, No.18003, used by Elliot Bird, U. S. Surveyor. The instrument is equipped with a Smith solar attachment and full vertical circle. The horizontal limb of the transit is provided with two double verniers placed opposite to each other and reading to single minutes of arc, which is also the least count of the verniers of the latitude and declination arcs, and the vertical circle. The instrument was approved for use on this survey by the district cadastral engineer for Utah, conditional upon satisfactory field tests as stated in supplemental assignment instructions, dated December 1, 1933. The instrument was in good condition at the time of this survey and all adjustments were in good order. The survey of this fractional township was made in conjunction with the survey of fractional T.43 S., R.6 E., and fractional T.44 S., R.5 E., of this group, and the bearings of the lines were determined by deflection angles from the W. boundary of fractional sec. 6, which was checked by hour angle observations made upon Polaris and found to bear South.

Measurements were made with a Lallie steel ribbon tape, 5 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 Lufkin standard steel tape, 1 chain long, and found correct. Measurements were made on the slope and the vertical angle of each interval was determined by large clinometers in good adjustment; the horizontal equivalents are entered in the field note record.

The geographic position of the NW. corner of this frac. township is in approximate latitude 37°01'N. and longitude 111°18'W.

MEANDERS OF RIGHT BANK OF COLORADO RIVER IN T.44 S.,R.6 E.

The witness cor. to the meander cor. of frac. sec. 1 and 6, on west boundary of township, is an iron post, 1 in. diam., set, marked, and witnessed as described in the official record of the survey of T.44 S., R.5 E., of this group, on the right side of the Colorado River.

From the true point for the meander cor. of frac. secs. 1 and 6, on west boundary of township, which is south, 4.75 chs. dist., from the witness cor. to the meander cor. of said secs., on the right bank of the Colorado River, I deflect an angle of 49°28' to the right from the cor. of Tps. 43 and 44 S., Rs. 5 and 6 E.

Thence upstream with the meanders of the right bank of the river, in sec. 6.

Over sandy river bar, locally known as Gunsight Bar, along a sloping sandy bank, from 2 to 8 ft. high, through dense undergrowth of willows.

N.49°28'E., 8.30 chs.

N.36°16'E., 12.53 chs.

N. 3°27'W., 6.52 chs.

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N.6°07'W., 17.85 chs. At 8.55 chs. on this course, the fallen down wall of an old rock house, bears West, 1.55 chs. dist. At end of this course, the true point for the meander cor. of frac. secs. 6 and 31, which is on the N. bdy of township, East, 50 lks. dist., from the witness cor. to the meander cor. of said secs., which is an iron post, 1 in. diam., set, marked, and witnessed as described in the official record of the survey of T.43 S., R.6 E., of this group.

Land, sand and gravel river bar, with general easterly exposure and drainage, subject to overflow near river bank.

Soil, deep loose silt sand and fine gravel; 2nd rate.

Undergrowth, willows, greasewood, weeds, and grass.

No timber.

Good grazing land.

GENERAL DESCRIPTION

T.44 S., R.6 E.

The land within the boundaries of this fractional township consists of broken sandstone surface rock and ledges on the northwest portion and a sand and gravel river bar, locally known as Gunsight Bar, on the southeast portion. The general elevation on the river bar is approximately 3,300 ft. above sea level, and the NW. cor. of the township, on the sandstone breaks is about 450 ft. higher. Soil on the river bar which is subject to overflow is a deep silt sand, lying on gravelly subsoil and may be classified as 2nd rate, which supports a dense undergrowth of willows, greasewood, weeds, and grass. The soil on the higher portions of the river bar is deep to shallow loose sand and gravel, lying on sandstone bedrock, and may be classified as 3rd and 4th rates, which supports an undergrowth of rabbit brush, blackbrush, mountain rush, yellow top, oose, weeds, and grass. Soil on the sandstone breaks consists of shallow patches of loose sand and coarse gravel, that may be classified as 4th rate, which supports a scattered short undergrowth of blackbrush, yellow top, mountain rush, oose, weeds, and grass. The fractional township is of sandstone formation, with a general southeasterly exposure and drainage. The undergrowth on the river bar affords good grazing for stock which can reach the bar over a rough rocky trail from the benches to the North.

No settlers or improvements were found on the township and no land is suitable for cultivation. The fractional township in general is suitable for the grazing of stock.

A few small shallow pits were found in the gravelly portion of the river bar, which indicates that placer mining prospecting has been carried on in these places at some time.

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A fallen down wall of an old rock house is located on the river bar in the NW¼ NW¼ sec. 6. A well with rock walls, 12 ft. deep, 8 ft. diam., bears S.59°W., 2.00 chs. dist., from the witness cor. to the meander cor. of frac. secs. 6 and 31, on N. bdy. of township.

The Colorado River, which forms the SE. boundary of the township, flows in a southeasterly direction and is the only water found.

The nearest settlement to the township is Lee's Ferry, Arizona, which is located on the right bank of the Colorado River, about 45 miles in a southwesterly direction. Marble Canyon, Arizona, is located in a southwesterly direction, about 7 miles dist., from Lee's Ferry, and at the time of this survey a Post Office was being maintained at that point.

No indications of oil, oil shale, coal, or mineral was found in the fractional township.

The mean magnetic declination throughout the township was found to be 16°30'E.

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4—680
(August, 1926)

FIELD ASSISTANTS.

NAMES.	CAPACITY.
Edward Eliason	Chainman
Molen Roper	Chainman
Bert Swain	Chainman
Reed Overson	Chainman
Ross A. Slye	Axman
Arthur W. Warenski	Axman
Ray R. Morgan	Axman

6—8764

CERTIFICATE OF UNITED STATES SURVEYOR

I, Elliot Bird, U. S. Surveyor, hereby certify upon honor that, in pursua
of special instructions received from the District Cadastral Engineer for Utah
bearing date of the 11th day of February, 1916, I have well, faithfully, and tru
in my own proper person, and in strict conformity with said instructions, the Manual of Surveying Instru
tions, and the laws of the United States, surveyed all those parts or portions of meanders of the
right bank of the Colorado River in fractional T.44 S., R.6 E.

of the Salt Lake
Meridian, in the State of Utah, which are represented
the foregoing field notes as having been executed by me, and under my direction; and that all the corners
said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instru
tions, and the special written instructions of the District Cadastral Engineer for Utah
and in the specific manner described in the field notes, and that the foregoing are the original ~~field~~ notes
such survey.

Salt Lake City, Utah
May 15, 1935

Elliot Bird
U. S. Surveyo

APPROVAL

OFFICE OF U. S. SUPERVISOR OF SURVEYS,

Denver Colorado JUN 8 1935, 19

The foregoing field notes of the survey of meanders of the right bank of the
Colorado River in Fractional T.44 S., R.6 E.

executed by Elliot Bird, U.S. Surveyor
under his special instructions dated February 11, 1916, having been
critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys
they describe, are hereby approved.

Martin L. Simon
U. S. Supervisor of Surveys

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

Martin L. Simon
U. S. Supervisor of Surveys

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BOOK A-503

FIELD NOTES

OF THE

DEPENDENT RESURVEY OF THE SECOND STANDARD PARALLEL SOUTH,

ALONG THE SOUTH BOUNDARY OF TOWNSHIP 10 SOUTH, RANGE 5 EAST,

AND SURVEY OF THE SUBDIVISIONAL LINES OF

TOWNSHIP 11 SOUTH, RANGE 5 EAST.

Of the SALT LAKE *Meridian,*

In the State of UTAH

EXECUTED BY

Andrew Nelson, U.S. Surveyor

Wilson McConkie, U.S. Transitman

In the [illegible], *under Special Instructions dated* May 31, 1932, *issued by the District Cadastral Engineer to govern surveys included in Group No.* 221, *which were approved by the Commissioner of the General Land Office,* June 16, 1932, *and* supplemental *Assignment Instructions dated* June 30 August 14, 1934

Survey commenced July 4, 1934

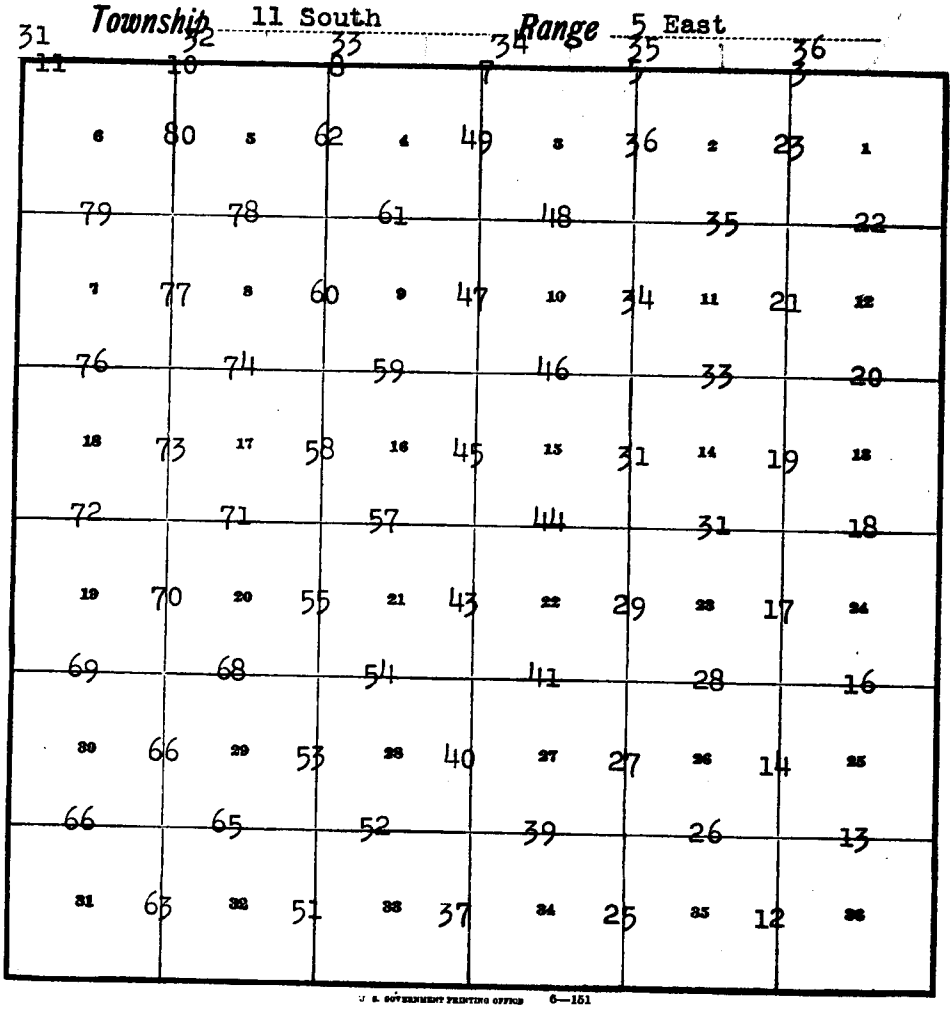
Survey completed August 23, 1934.

6—151

BOOK A-503

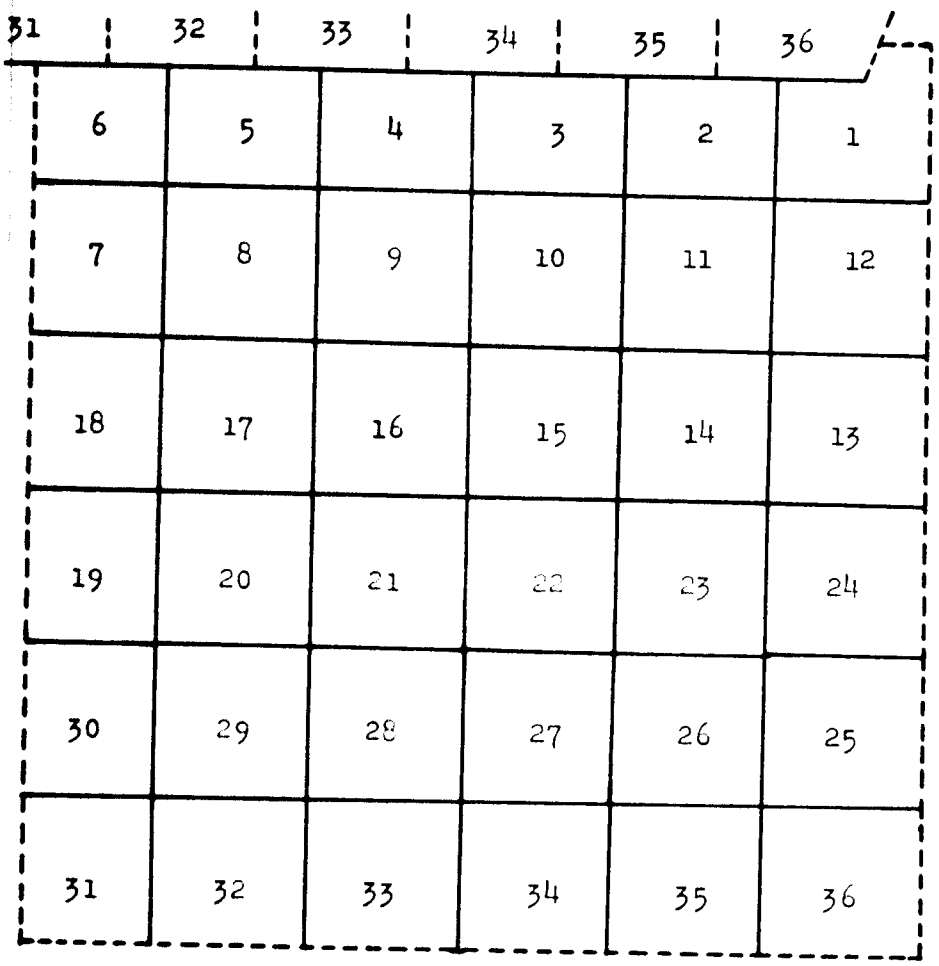
INDEX DIAGRAM.

Township 11 South *Range* 5 East



U. S. GOVERNMENT PRINTING OFFICE 6—151

Township 11 South, Range 5 East



Lines surveyed by:

——— Andrew Nelson, U.S. Surveyor.

——— Wilson McConkie, U.S. Transitman.

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DESCRIPTION AND TEST OF INSTRUMENTS

T. 11 S., R. 5 E., SALT LAKE MERIDIAN

Survey commenced July 3, 1934, and executed with Buff and Buff solar transit No. 9978, used by Andrew Nelson, U.S. Surveyor, and Young & Sons solar transit No. 8569, used by Wilson McConkie, U.S. Transitman; both instruments are the property of the General Land Office. The instruments are equipped with full vertical circles and Smith solar attachment; the horizontal limbs are provided with two double verniers placed opposite to each other and read to single minutes of arc, which is also the least count of the verniers of the vertical circles, and the latitude and declination arcs. All azimuth determinations were accomplished with the solar attachment except the special observation upon Polaris for meridian upon which to test the the solar apparatus as stated in the field notes.

The instruments were approved for use on this survey by the district cadastral engineer for Utah in supplemental assignment instructions dated June 30, 1934, conditional upon satisfactory field tests.

The geographic position of the southeast corner of the township as furnished in the special instructions is approximately as follows:- longitude 111° 18' W., latitude 39° 49' N.

July 3, 1934, at my camp, located about 20 chs. south of the ¼ corner of sections 27 and 34, T. 11 S., R. 5 E., approximate longitude 111° 21' W., latitude 39° 49½' N., I examine the adjustments of the instruments and correct all errors. I then test the solar apparatus by comparing its indications hourly with the true meridian established by Polaris observation as follows.

At 2h. 09m. 05s. p.m. l.m.t., I make an hour angle observation on Polaris, west of the meridian, two each with the telescope in direct and reversed positions, reading the deflection angle from a tree about a mile distant to the north, west to Polaris:

Mean watch time of observation, 2h. 34m. 30s. p.m., which is 25m. 25s. fast of l.m.t.

Mean horizontal angle from tree W. to Polaris	1° 15'
Azimuth of Polaris	1° 17.7'
True bearing of tree	N. 0° 02.7' W.

Buff and Buff transit No. 9978.

July 4, 1934, at 7h. 00m. a.m., app.t., I set off 39° 49½' N. on the lat. arc; 22° 56' N., on the declination arc; and determine a meridian with the solar which I find to agree with the true meridian.

To verify the latitude of the station, I make a meridian observation of the sun for time and latitude, observing simultaneously the altitude of the sun's lower limb and the transit of the sun's west limb, reversing the telescope and observing the altitude of the sun's upper limb and the transit of the sun's east limb.

Mean observed altitude	73° 04½'
Reduced latitude	39° 50' N.
Mean watch time of observation	12h. 29m. 31s.
Watch fast of local mean time	25m. 25s.

At approximate app. noon, with the lat. arc unchanged, I observe the sun on the meridian; the resulting reading of the declination arc is 22° 54' N., which agrees with the computed declination of the sun.

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At 5h. 00m., p.m. app.t., with the lat. arc unchanged, I set off 22° 54' N., on the decl. arc, and determine a meridian with the solar which I find to agree with the tr meridian.

Young and Sons transit No. 8569.

July 4, 1934, at 7h. 00m. a.m., app.t., I set off 39° 49½ N. on the lat. arc; 22° 56' N., on the decl. arc; and determine a meridian with the solar which I find to agree with the true meridian.

At app. noon, with the lat. arc unchanged, I observe the sun on the meridian; the resulting reading of the decl. arc is 22° 54' N., which agrees with the computed decl. o the sun.

At 5h. 00m. p.m., app. t., with the lat. arc unchanged, I set off 22° 54' N., on the decl. arc, and determine a meridian with the solar which I find to agree with the tr meridian.

As all of the solar observations during usual hours of solar work come within 1' of the true meridian, I conclud that the adjustments of both of the instruments are satisfactory.

Conditions permitting, the arcs were tested daily by noon observations, and the meridional indications of the solar apparatus verified at frequent intervals throughout the survey.

The observed magnetic declination is 16° 30' E.

MEASUREMENTS

Unless otherwise specified all measurements were made with Lallie steel tapes 5 and 8 chains in length, graduated every link for the first 100 links, and the balance at intervals of 10 links. The tapes were tested by comparisc with a Lufkin standard steel tape 1 chain long, and found correct. The measurements were made on the slope, and the vertical angle of each interval was determined with the improved Heuffel and Esser clinometers in good adjustment, and the slope measurements properly reduced to true horizontal distances, which are recorded in the field notes.

DEPENDENT RESURVEY OF 2ND STANDARD PARALLEL SOUTH, THROUGH R. 5 E.

Reestablishment of surveys executed by Andrew J. Stewart Jr., U.S. Deputy Surveyor, in 1877.

RANDOM LINES

From the standard cor. of T. 10 S., R. 5 E., sec. 36 only, hereinafter described, I retrace west along 2nd standard parallel south, through range 5 E., making careful searche for standard ¼ sec. and sec. cors., and at 156.62 chains fall 84 lks. N. of the original standard cor. of secs. 34 and 35, T. 10 S., R. 5 E., hereinafter described.

The course of the E. 2 miles of this standard parallel therefore is S. 89° 41' W., and the proportionate length

Chains

of each mile is 78.31 chs.

From the stan. cor. of secs. 34 and 35, T. 10 S., R. 5 E., I retrace W., making careful searches for stan. ¼ sec. and sec. cors. at intervals of 40 and 80 chs., and at 277.34 chs. fall 21 lks. N. of the stan. ¼ sec. cor. on the S. bdy. of sec. 31, hereinafter described.

The course of the line bet. the stan. cor. of secs. 34 and 35, and the stan. ¼ sec. cor. on S. bdy. of sec. 31, therefore is S. 89° 57' W., and the proportionate length of each mile is 79.24 chs., and the proportionate length of the W. half mile is 39.62 chs.

TRUE LINES

From the stan. cor. of sec. 36, T. 10 S., R. 5 E., which is an iron post, 3 ins. diam., extending 8 ins. above ground, firmly set, properly mkd. and witnessed as described in the official record , T. 10 S., R. 6 E.; alongside is a sandstone, 10 x 11 x 16 ins., mkd. with 6 notches on the W. and 6 notches on the S. edges.

S. 89° 41' W., along S. bdy. sec. 36.

Ascend along steep S. slope over mountainous land, through scattered juniper and dense undergrowth of mahogany, scrub oak, and manzanita.

.61 Juniper, 12 ins. in diam., mkd. with 2 notches on the E. and 2 notches on the W. sides; recorded in the original field notes as a red cedar.

3.90 Top of ascent, 10 ft. above Tp. cor., slopes S.; descend along rolling S. slope.

5.23 Midway, easting and westing, between the closing cor. of T. 11 S., Rs. 5 and 6 E., and the closing cor. of secs. 1 and 2, T. 11 S., R. 5 E.; 10 ft. below top of ascent.

Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground surrounded by a mound of stone, for the ¼ cor. of sec. 1 only, with brass cap mkd.

¼ S 1

1934 from which

A juniper, 18 ins. in diam., brs. S. 56°15' E., 62 lks. dist., mkd. ¼ S1 BT.

A juniper, 10 ins. in diam., brs. S. 46°45' W., 51 lks. dist., mkd. ¼ S1 BT.

9.60 Enter scattered fir timber and medium dense maples, brs. N. and S.

13.10 Bottom of draw, 10 ft. below ¼ sec. cor., drains S. 60° E.; leave mahogany and juniper; ascend NE. slope through dense fir timber and scattered maples.

33.70 Leave fir timber, brs. N. and S.; continue ascent through dense short chokecherry, deer browse, and scrub oak.

38.60 Top of ridge, 760 ft. above bottom of draw, brs. N. 8° E. and S. 28° W. approximately 12 chs. thence southerly.

U. S. GOVERNMENT PRINTING OFFICE: 1951 6—8155

Chains	
	Descend steep rocky W. slope through medium dense fir timber and scattered mahogany and service berry undergrowth; over limestone formation.
39.155	Proportionate point, on steep W. slope, 50 ft. below top of ridge
	Set an iron post, 3 ft. long, 1 in. diam., 28 ins. in the ground, for the restored ¼ cor. sec. 36 only, with brass cap mkd.
	SC ¼ S 36 1934
	from which
	A balsam fir, 8 ins. in diam., brs. N. 62° 15' E., 59 lks. dist., mkd. ¼ S36 SC BT.
	A limber pine, 13 ins. in diam., brs. N. 50° W., 83 lks. dist., mkd. ¼ S36 SC BT.
45.13	The closing corner of secs. 1 and 2, subsequently established at this point.
45.30	Leave mahogany, continue descent through dense fir timber
48.60	Bottom of draw, drains NW.; continue descent along N. slop
51.90	Fir timber becomes scattered, enter scattered mahogany; continue descent along NW. slope.
57.70	Bottom of ravine, drains NW. approximately 5 chs. to junction with draw.
58.80	Low spur slopes N. 30° W.
59.70	Bottom of draw, 655 ft. below the stan. ¼ sec. cor. of sec. 36, drains N. 10° E. from S.; enter medium dense small aspen, fir timber becomes scattered, ascend steep NE. slope.
64.20	Leave timber, brs. SE. and NW., continue ascent through dense scrub oak and service berry brush.
68.30	Top of low spur, slopes N.; descend along steep N. slope through scattered small fir trees.
72.20	Head of ravine drains N. 20° E.; ascend steep NE. slope.
76.00	Top of spur, 320 ft. above bottom of draw, slopes N. 25° W.; descend steep W. slope.
78.31	Proportionate point, on steep W. slope, 100 ft. below top of spur.
	Set an iron post, 3 ft. long, 2 ins. diam., 20 ins. in the ground surrounded by a mound of stone, for the restored stan. cor. of secs. 35 and 36, with brass cap mkd.
	SC T10S | R5E S 35 | S 36 1934
	from which
	A balsam fir, 5 ins. in diam., brs. N. 47° 15' W., 125 lks. dist., mkd. T10S R5E S35 SC BT.
	No other suitable bearing trees available.

Chains	
	Land, mountainous, with steep slopes; SE. exposure and drainage on E. half mile, and W. exposure and drainage on W. half mile. Soil, rocky clay loam; 3rd rate. Timber, Douglas fir, balsam, and juniper, on portions of mile. Undergrowth, oak, mahogany, service berry, and manzanita; medium growth of grass and weeds. Fair grazing land.
	S. 89° 41' W., along S. bdy. sec. 35.
	Descend along steep, rolling NW. slope, through scattered small fir trees and dense undergrowth of manzanita, wild currant, scrub oak, and deer browse.
6.81	Midway between the closing corners of secs. 1 and 2, and secs. 2 and 3, T. 11 S., R. 5 E., 180 ft. below the restored stan. cor. secs. 35 and 36,
	Set an iron post, 3 ft. long, 1 in. diam., 25 ins. in the ground, surrounded by a mound of stone to top, for the ¼ cor. sec. 2 only, with brass cap mkd. ¼ S 2 1934
	No suitable bearing trees or other corner accessories available.
18.40	Enter scattered aspen and maples, brs. N. and S.
24.40	Small ravine, drains N. 30° W., about 1 ch. to junction.
26.30	Bottom of Right Fork of Mill Fork Canyon, 420 ft. below ¼ sec. cor of sec. 2, drains NE.; trail follows along bottom of canyon; ascend E. slope through dense aspen.
27.70	Leave timber, brs. N. and S.
29.00	Remains of old log cabin.
31.00	Enter aspen timber, brs. NE. and SW.
36.40	Bottom of ravine, 315 ft. below the ¼ cor. of sec. 2, drains N. 85° E.; leave aspen timber; ascend along steep S. slope, through medium dense short chokecherry and scattered service berry brush.
39.155	Proportionate point, on S. slope, 95 ft. above ravine
	Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground, surrounded by a mound of stone to the top, for the restored stan. ¼ cor. of sec. 35 only, with brass cap mkd. SC ¼ S 35 1934 from which

Chains	
	An aspen, 5 ins. in diam., brs. N. 30° E., 63 lks. dist., mkd. ¼ S 35 SC BT.
	An oak, 4 ins. in diam., brs. N. 63° 45' W., 7 lks. dist., mkd. ¼ S 35 SC BT.
39.90	Enter dense oak brush, 5 to 10 ft. tall, brs. NE. and SW.
43.30	Top of ascent, 10 ft. above the restored stan. ¼ cor. of sec. 35, brs. N. and S.; descend along S. slope.
46.80	The closing corner of secs. 2 and 3, subsequently established at this point.
51.10	Bottom of canyon, 5 ft. below top of ascent, drains S. 70° E.; leave oak brush; ascend steep NE. slope through dense fir and aspen timber.
52.10	Trail, brs. N. 50° W. and S. 65° E.
57.80	Enter scattered maples, brs. N. and S.
64.50	Slope changes from NE. to N., continue ascent; leave aspen and enter dense fir timber, brs. N. 30° E. and S. 30° W.
78.31	The original stan. cor. for secs. 34 and 35, which is a balsam fir, 12 ins. in diam., blazed on the E., W., N., and S. faces, bearing scribe marks, not readable, from which
	A fir stump, 10 ins. in diam., brs. N. 57° 30' E., 35 lks. dist., mkd. BT.
	A fir stump, 12 ins. in diam., brs. S. 5° 30' E., 25 lks. dist., mkd. BT.
	A fir tree, 14 ins. in diam., brs. S. 66° W., 26 lks. dist., blazed but not mkd.
	A fir stump, 16 ins. in diam., brs. N. 15° 30' W., 17 lks. dist., mkd. S 34 BT.
	At the base of the original tree cor., on the N. side
	Set an iron post, 3 ft. long, 2 ins. in diam., 24 ins. in the ground, surrounded by a mound of stone to the top, for the stan. cor. of secs. 34 and 35, with brass cap mkd.

SC
T10S | R5E
S 34 | S 35

1934

from which

A Douglas fir, 12 ins. in diam., brs. N. 75° 45' E., 68 lks. dist., mkd. T10S R5E S35 SC BT.

A Douglas fir, 10 ins. in diam., brs. N. 2° 45' W., 19 lks. dist., mkd. T10 S R5E S34 SC BT.

Land, mountainous, with steep slopes; W. exposure and drainage on E. half of mile, and E. exposure and drainage on W. half mile.
Soil, rocky clay loam; 3rd rate.
Timber, aspen and fir, on portions of mile.
Undergrowth, oak, mahogany, service berry, wild currant, manzanita, and deer browse; medium growth of grass and weeds.
Fair grazing land.

U. S. GOVERNMENT PRINTING OFFICE: 1941 8—8165

Chains	
	S. 89° 57' W., along S. bdy. sec. 34.
	Ascend steep NE. slope, over mountainous land, through medium dense fir timber, short chokecherry and deer browse undergrowth.
8.42	Midway between the closing corners for secs. 2 and 3, and secs. 3 and 4, T. 11 S., R. 5 E., on NE. slope, 250 ft. above the stan. cor. of secs. 34 and 35,
	Set an iron post, 3 ft. long, 1 in. diam., 24 ins. in the ground and surrounded by a mound of stone to top, for the ¼ cor. sec. 3, with brass cap mkd.
	¼ S 3
	1934 from which
	A balsam fir, 8 ins. in diam., brs. S. 22° E., 10 lks. dist., mkd. ¼ S 3 BT.
	A Douglas fir, 8 ins. in diam., brs. S. 31° W., 35 lks. dist., mkd. ¼ S 3 BT.
9.70	Top of ridge, 5 ft. above the ¼ sec. cor., brs. N. and S.; trail follows along top; descend steep W. slope, through scattered small fir timber, mahogany, manzanita, short chokecherry, and deer browse undergrowth.
13.30	Enter dense fir timber, brs. SE. and NW.
18.10	Ravine, drains NW.; continue descent along steep N. slope.
19.90	Low spur, slopes NW.; continue descent along NW. slope.
22.20	Enter medium dense growth of small aspens mixed with the dense growth of Douglas fir timber.
25.70	Leave aspen timber.
29.40	Bottom of canyon, 515 ft. below top of ridge, drains S. 60° W.; ascend along S. slope, through scattered fir timber and medium growth of tall mahogany and short oak brush undergrowth.
37.90	Top of ascent, 70 ft. above bottom of canyon, brs. N. and S.; descend along steep SW. slope.
39.62	Proportionate point, on steep SW. slope, 30 ft. below top of ascent.
	Set an iron post, 3 ft. long, 1 in. diam., 28 ins. in the ground and surrounded by a mound of stone to top, for the restored stan. ¼ sec. cor. of sec. 34, with brass cap mkd.
	SC ¼ S 34
	1934 from which
	A balsam fir, 5 ins. in diam., brs. N. 81° 15' E., 67 lks. dist., mkd. ¼ S34 SC BT.
	A mahogany, 4 ins. in diam., brs. N. 28° W., 65 lks. dist., mkd. ¼ S 34 SC BT.

U. S. GOVERNMENT PRINTING OFFICE: 1931 6—8155

Chains	
46.40	Bottom of draw, 130 ft. below the restored stan. ¼ sec. c of sec. 34, drains S.; ascend along S. slope.
48.35	Point for the closing cor. of secs. 3 and 4, subsequently established.
55.90	Top of low flat rise, 30 ft. above draw, slopes SW. from N. 70° E.; descend steep NW. slope; leave mahogany, continue through tall dense oak and scattered service berry brush.
66.20	Enter medium dense growth of small aspens, brs. NE. and SW
66.50	Bottom of draw, 390 ft. below top of ascent, drains SW.; ascend along rolling S. slope.
67.70	Leave aspen timber, brs. NE. and SW.; continue through dense growth of oak and service berry brush.
79.24	Proportionate point, on steep S. slope, 84 ft. above draw,
	Set an iron post, 3 ft. long, 2 ins. diam., 8 ins. in the ground, over cross cut in solid rock, and surrounded by a mound of stone to top, for the restored stan. cor. of secs 33 and 34, with brass cap mkd.

SC
T10S | R5E
S 33 | S 34

1934

No suitable bearing trees available.

Land, mountainous, with steep slopes; exposure and drainage NW. on E. ¼ of mile, and SW. on remainder of mile.
Soil, rocky clay loam; 3rd rate.
Timber, Douglas fir, balsam, and aspen on portions of mile.
Undergrowth, oak, mahogany, chokecherry, service berry, and deer browse; medium growth of grass and weeds.
Fair grazing land.

S. 89° 57' W., along S. bdy. sec. 33.

Descend along steep SW. slope, over mountainous land, through dense growth of oak and service berry brush.

2.60	Top of low flat rise, slopes S.; descend along S. slope.
9.08	Midway between the closing cors. of secs. 3 and 4, and secs. 4 and 5; on steep SW. slope, 100 ft. below the restored stan. cor. of secs. 33 and 34,
	Set an iron post, 3 ft. long, 1 in. diam., 28 ins. in the ground, for the ¼ cor. of sec. 4, with brass cap mkd.

¼ S 4

1934

raise a mound of stone, 3 ft. base, 2½ ft. high, S. of cor.

12.80	Bottom of draw, 125 ft. below the ¼ cor. of sec. 4, drains S. approximately 6 chs. to junction with canyon;

Chains	
	ascend steep SE. slope.
15.80	Enter medium dense growth of mahogany, brs. N. 30° E. and S. 30° W., tall oak and service berry becomes scattered.
17.60	Point of spur, 150 ft. above draw, slopes S., conglomerate and limestone outcroppings on top of spur, descend along S. slope, enter scattered sagebrush.
25.30	Mahogany becomes scattered, enter dense growth of oak and service berry brush, 5 to 10 ft. tall, brs. N. and S.
27.20	Ravine, drains S. approximately 7 chs. to junction with canyon, ascend SE. slope.
34.40	Top of low spur, from N. 20° W. slopes S. 15° E., descend steep SW. slope.
35.50	Enter dense mahogany; oak and service berry become scattered, brs. N. and S.
37.00	Change of slope from SW. to W., brs. NE. and SW.
39.52	Proportionate point, on steep W. slope, 190 ft. below point of spur, among scattered oak and sage brush,
	Set an iron post, 3 ft. long, 1 in. in diam., 28 ins. in the ground, for the restored stan. ¼ sec. cor. of sec. 33, with brass cap mkd. SC ¼ S 33 1934 raise a mound
	of stone, 3 ft. base, 2½ ft. high, N. of cor.
40.30	Bottom of draw, 25 ft. below the restored stan. ¼ sec. cor. of sec. 33, drains S. 15° W., ascend along gradual SE. slope through dense tall oak brush.
48.30	Top of ascent, 60 ft. above bottom of draw, descend along steep S. slope through dense oak and service berry brush.
49.05	Point for the closing cor. of secs. 4 and 5, subsequently established.
67.70	Head of small ravine, 122 ft. below top of ascent, drains SW., ascend SE. slope.
71.90	Top of spur, 20 ft. above head of ravine, from N. 75° E. projects S. 15° W., descend NW. slope through dense tall oak brush. Corral brs. N. 20° E., about 12 chs. dist.
77.00	Slope changes from NW. to W., brs. SW. and NE.
79.24	Proportionate point, on W. slope, in dense oak brush, 220 ft. below top of spur,
	Set an iron post, 3 ft. long, 2 ins. in diam., 27 ins. in the ground surrounded by a mound of stone to the top of the post, for the restored stan. cor. of secs. 32 and 33, with brass cap mkd. SC T10S, R5E S32 | S33 1934 raise a mound of

Chains	
	stone, 3 ft. base, 2½ ft. high, N. of cor.
	Land, mountainous, with steep slopes; SW. exposure and drainage. Soil, rocky clay loam; 3rd rate. Timber, very scattering Douglas fir on portions of mile. Undergrowth, mahogany, oak, service berry, and chokecherry medium growth of grass and weeds. Fair grazing land.
	S. 89° 57' W., along S. bdy. sec. 32.
	Descend W. slope over mountainous land, through dense tal oak brush.
7.50	Enter medium dense growth of sage brush, oak becomes medium dense.
9.82	Midway between the closing cors. of secs. 4 and 5 and sec 5 and 6, on W. slope, 85 ft. below the restored stan. cor of secs. 32 and 33,
	Set an iron post, 3 ft. long, 1 in. in diam., 28 ins. in the ground, for the ¼ sec. cor. of sec. 5, with brass cap mkd.
	¼ S 5
	1934 raise a mound of stone, 3 ft. base, 2½ ft. high, S. of the cor.
17.20	Leave oak brush, brs N. and S.
25.20	Bottom of open swale, 170 ft, below the ¼ sec. cor. of se 5, heads approximately 4 chs. N. and drains S. 10° W.; ascend SE. slope, enter dense tall oak brush, brs. N. an S.
33.00	Top of spur, 170 ft. above swale, projects SW., descend along NW. slope.
39.62	Proportionate point, on steep NW. slope, 120 ft. below top of spur,
	Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground surrounded by a mound of stone to top of post, for the restored stan. ¼ sec. cor. sec. 32, with brass cap mkd.
	SC ¼ S 32
	1934 raise from which A juniper, 15 ins. in diam., brs. N. 39°15' E., 24 lks. dist., mkd. ¼ S 32 SC BT.
	No other suitable bearing tree available, raise a mound of stone, 3 ft. base, 3 ft. high, N. of cor.
	From this point, the NW. corner of a corral brs. S. 71° W.
44.90	Oak brush becomes scattered, enter medium dense growth of sage brush

Chains	
49.40	Nearly dry creek bed of Lake Fork Canyon, 290 ft. below the restored stan. ¼ sec. cor. of sec. 32, drains N. from S. 10° E.; ascend E. slope.
49.83	Point for the closing corner of secs. 5 and 6, subsequently established.
50.20	Bottom of wash from Dipping Pen Canyon, 8 ft. deep and 25 lks. wide, drains NE.
50.80	Wagon road, brs. N. 15° E. and S.
51.10	Leave canyon bottom, brs. N. and S.; ascend steep E. slope.
57.00	Top of ascent on E. slope, continue more gradual ascent along rolling S. slope, brs. SE. and NW.
60.50	Oak brush becomes scattered, enter scattered sagebrush and juniper.
74.80	Bottom of draw, drains SE., ascend steep E. slope.
79.24	Proportionate point, on NE. slope, 465 ft. above bottom of Lake Fork Canyon,

Set an iron post, 3 ft. long, 2 ins. diam., 28 ins. in the ground, and surrounded by a mound of stone to top, for the restored stan. cor. secs. 31 and 32, with brass cap mkd.

SC

T10S	R5E
S 31	S 32

1934 from which

A juniper, 5 ins. in diam., brs. N. 65° 45' E., 133 lks. dist., mkd. T10S R5E S32 SC BT.

A juniper, 4 ins. in diam., brs. N. 59° 45' W., 109 lks. dist., mkd. S31 BT.

Land, mountainous, with steep slopes; SW. exposure and drainage on E. half mile, with SE. exposure and drainage on W. half mile.
Soil; rocky clay loam; 3rd rate.
Timber, very scattered fir and juniper on portions of mile.
Undergrowth, oak and sage brush, with scattered mahogany and service berry brush on portions of mile; medium growth of grass and weeds.
Fair grazing land.

S. 89° 57' W., along S. bdy. sec. 31.

Ascend steep E. slope, over mountainous land, through medium dense growth of oak and scattered manzanita and juniper.

3.30	Top of spur, 65 ft. above the restored stan. cor. of secs. 31 and 32, projects S. 20° E., descend SW. slope.
10.20	Bottom of hollow, 80 ft. below top of spur, drains S. 15° E.; ascend steep E. slope.

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Chains	
10.59	Westing of 40.00 chs. from the closing cor. of secs. 5 and 6, on SE. slope, 10 ft. above bottom of hollow, Set an iron post, 3 ft. long, 1 in. diam., 28 ins. in the ground, surrounded by a mound of stone to top, for the ¼ cor. of sec. 6, with brass cap mkd. ¼ S 6 1934 from which A juniper, 12 ins. in diam., brs. S. 2° W., 83 lks. dist., mkd. ¼ S6 BT.
17.60	Top of spur, 160 ft. above the ¼ cor. of sec. 6, projects S.; descend SW. slope, through medium dense juniper timber and oak brush.
25.90	Bottom of draw, 140 ft. below top of spur, drains S.; ascend steep E. slope.
35.14	Top of spur, 200 ft. above bottom of draw, projects S. At this point, the closing cor. of T. 11 S., Rs. 4 and 5 E., secs. 1 and 6, which is an iron post, 3 ins. diam., extending 9 ins. above ground, firmly set, with brass cap properly mkd. and witnessed as described in the official record.
39.62	The original stan. ¼ cor. of sec. 31, which is a sandstone 14 x 9 x 5 ins., mkd. SC and ¼ on the N. face, firmly set in the ground, and witnessed as described in the official record. Land, mountainous, with steep slopes; SE. exposure and drainage. Soil, rocky clay loam; 3rd rate. Timber, scattered fir and juniper on portions of mile. Undergrowth, oak and manzanita, with scattered service berry brush; medium growth of grass and weeds. Fair grazing land.

SUBDIVISION OF T. 11 S., R. 5 E.

From the cor. of secs. 35 and 36, on the S. bdy., which is an iron post, 2 ins. diam., extending 6 ins. above the ground, firmly set, properly mkd. and witnessed as described in the official record.

N. 0° 01' W., bet. secs. 35 and 36.

Descend steep NE. slope, over mountainous land, through dense aspen and balsam fir timber, and medium dense growth of deer browse, sage, and chokecherry brush.

13.50	Bottom of North Ditch Fork Canyon, stream of clear water, 6 lks. wide and 3 ins. deep, 200 ft. below sec. cor., course S. 60° E., approximately 3 chs. to junction with Fish Creek; leave timber, brs. with canyon bottom; ascend S. slope.
18.30	Top of low flat spur, 75 ft. above canyon bottom, slopes SE.; descend NE. slope.
21.50	Stream of clear water, 3 lks. wide and 2 ins. deep, drains E. approximately 1½ chs. to junction with Fish Creek; ascend gradually along steep E. slope.

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Chains	
40.00	On steep E. slope, 120 ft. above bottom of canyon
	Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, surrounded by a mound of stone to top, with a sandstone, 8 x 6 x 5 ins., mkd. X, deposited at base of post, for the ¼ sec. cor., with brass cap mkd.

¼
S35 | S36
1934

No suitable bearing trees available.

51.20	Enter dense chokecherry, brs. E. and W.
58.50	Chokecherry becomes scattered, enter dense tall aspens, brs. NE. and SW.
76.20	Top of ascent~~, 230 ft.~~ above ¼ sec. cor., slopes E.; descend gradually along E. slope.
80.00	On E. slope, 30 ft. below top of ascent
	Set an iron post, 3 ft. long, 2 ins. diam., 27 ins. in the ground, for the cor. of secs. 25, 26, 35, and 36, with brass cap mkd.

T11S R5E
S 26 | S 25
S 35 | S 36
1934

from which

An aspen, 6 ins. in diam., brs. N. 34° 30' E., 24 lks. dist., mkd. T11S R5E S25 BT.

An aspen, 9 ins. in diam., brs. S. 61° 30' E., 32 lks. dist., mkd. T11S R5E S36 BT.

An aspen, 8 ins. in diam., brs. S. 10° W., 26 lks. dist., mkd. T11S R5E S35 BT.

An aspen, 12 ins. in diam., brs. N. 13° W., 68 lks. dist., mkd. T11S R5E S26 BT.

Land, mountainous, with steep slopes; general drainage and exposure E. into Fish Creek.

Soil, rocky clay loam; 3rd rate.
Timber, aspen and balsam fir on portions of mile.
Undergrowth, chokecherry, deer browse and sagebrush; medium growth of grass and weeds.
Fair grazing land.

East, on random line, bet. secs. 25 and 36.

40.00	Set temp. ¼ sec. cor.
79.88	Intersect E. bdy. of Tp., 7 lks. N. of the cor. of secs. 25 and 36, which is an iron post, 2 ins. diam., extending 8 ins. above ground, firmly set, properly mkd. and witnessed as described in the official record.

Thence

N. 89° 57' W., on true line, bet. secs. 25 and 36.

Chains

Descend gradual NW. slope, over mountainous land, throug dense growth of aspen and scattered balsam timber, and medium dense growth of deer browse undergrowth.

12.40 Bottom of swale, 90 ft. below sec. cor., drains N.; asce E. slope.

15.40 Ungraded road, brs. N. and S. 30° E.

20.80 Top of Fish Creek Ridge, 70 ft. above bottom of swale, b N. and S.; descend gradual NW. slope, through medium den growth of balsam and aspen timber.

39.94 On NW. slope, 185 ft. below top of ridge

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

S 25
¼ S 36

1934

from which

An aspen, 8 ins. in diam., brs. S. 8° W., 13 lks. di mkd. ¼ S36 BT.

An aspen, 8 ins. in diam., brs., N. 29° W., 16 lks. dist., mkd. ¼ S 25 BT.

46.50 Trail, brs. NE. and SW.

50.90 From this point, small spring, brs. N. 70° 15' E., 150 li dist., drains N. 70° W.

68.30 Junction of two forks of Fish Creek from NE. and NW., 420 ft. below ¼ sec. cor.; stream of clear water, 20 lks. wid and 2 ins. deep, course S. 17° W.; ascend steep E. slope 250 ft.

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

Land, mountainous; exposure and drainage NE. on E. 21 chs and E. and W. into Fish Creek on remainder of mile.
Soil, clay loam, rich in humus; 3rd rate.
Timber, aspen and balsam fir.
Undergrowth, deer browse; medium growth of grass and weed
Fair grazing land.

N. 0° 01' W., bet. secs. 25 and 26.

Descend gradually along E. slope, over mountainous land, through medium dense tall aspen timber and dense deer browse undergrowth.

15.40 Bottom of draw, 55 ft. below sec. cor., drains SE.; ascend SW. slope.

25.30 Slope changes from SW. to S.; enter widely scattered Douglas fir timber.

40.00 On rocky S. slope, in small opening in timber, 250 ft. above bottom of draw

Set an iron post, 3 ft. long, 1 in. diam., 18 ins. in the ground to solid rock and surrounded by a mound of stone to top, for ¼ sec. cor., with brass cap mkd.

Chains	
	$\frac{1}{4}$ S26 | S25 1934 from which
	A Douglas fir, 36 ins. in diam., brs. N. 62°45' E., 83 lks. dist., mkd. $\frac{1}{4}$ S25 BT.
	A Douglas fir, 40 ins. in diam., brs. N. 76°45' W., 110 lks. dist., mkd. $\frac{1}{4}$ S26 BT.
41.20	Top of spur, 15 ft. above $\frac{1}{4}$ sec. cor., projects SE., descend along rolling E. slope.
49.00	Leave timber, brs. NE. and SW., continue 2 chs. W. of timber brs. N. and S.
55.90	Slope changes from E. to NE., continue descent.
62.70	Enter timber, dense aspen and scattered Douglas fir, brs. E. and W.
66.80	Douglas fir timber becomes dense.
74.10	Bottom of hollow, stream of clear water 2 lks. wide and 2 ins. deep, 325 ft. below top of spur, drains S. 65° E., Leave dense fir, continue through dense aspen timber; ascend S. alope.
80.00	On steep S. slope, 125 ft. above bottom of hollow
	Set an iron post, 3 ft. long, 2 ins. in diam., 28 ins. in the ground, for the cor. of secs. 23, 24, 25, and 26; with brass cap mkd.
	T11S R5 E S23 | S24 S26 | S25 1934 from which
	An aspen, 6 ins. in diam., brs. N. 5°30' E., 34 lks. dist., mkd. T11S R5E S24 BT.
	An aspen, 8 ins. in diam., brs. S. 36° E., 35 lks. dist., mkd. T11S R5E S25 BT.
	An aspen, 7ins. in diam., brs. S. 70°30' W., 46 lks. dist., mkd. T11S R5E S26 BT.
	An aspen, 6 ins. in diam., brs. N. 69°15' W., 50 lks. dist., mkd. T11S R5E S23 BT.
	Land, Mountainous, with steep slopes; exposure and drainage S. on S. $\frac{1}{2}$ of mile, and NE. on N. $\frac{1}{2}$ of mile. Soil, clay loam, rich in humus; 3rd rate. Timber, aspen and Douglas fir. Undergrowth, deer browse; medium growth of grass and weeds. Fair grazing land.

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Chains	
	S. 89°57' E., on random line bet. secs. 24 and 25.
40.00	Set temp. ¼ sec. cor.
80.00	Intersect E. bdy. of Tp., 7 lks. S. of cor. of secs. 24 and 25, which is an iron post, 2 ins. diam., extending 6 ins. above ground, firmly set, properly mkd. and witnesse as described in the official records.
	Thence
	West, on true line bet. secs. 24 and 25.
	Ascend E. slope, through dense aspen timber and medium dense growth of deer browse undergrowth.
4.50	Top of Fish Creek Ridge, 50 ft. above the sec. cor., brs. S. and N. 10° W., descend W. slope.
5.40	Ungraded road, brs S. and N. 10° W.
13.50	Leave aspen timber, brs. N. and S.
17.90	Enter dense growth of aspen timber and scattered Douglas fir, brs. N. and S.
28.60	Bottom of Fish Creek, stream of clear water 3 lks. wide and 3 ins. deep, 375 ft. below top of ridge, drains SE. from N., ascend E. slope.
40.00	On E. slope, 245 ft. above bottom of Fish Creek
	Set an iron post, 3 ft. long, 1 in. diam., 28 ins. in the ground, for the ¼ sec. cor., with brass cap mkd.
	¼ S24 / S25 1934
	from which
	An aspen, 12 ins. in diam., brs. N. 8°30' E., 37 lks. dist., mkd. ¼ S24 BT.
	An aspen, 10 ins. in diam., brs. S. 28° W., 16 lks. dist., mkd. ¼ S25 BT.
45.70	Top of spur, 90 ft. above the ¼ sec. cor., projects S.15 descend steep W. slope.
53.00	Fir timber becomes scattered, continue through medium den growth of aspen timber and deer browse.
59.70	Fir and aspen timber becomes dense.
65.90	Bottom of draw, stream of clear water 2 lks. wide and 2 in deep, 430 ft. below top of spur, drains S. 10° W.; timber becomes scattered, enter scattered chokecherry brush; ascend E. slope
72.40	Top of low spur, 135 ft. above draw, projects S. 30° E. approximately 12 chs., descend along S. slope.
76.00	Leave fir timber; aspen becomes dense.
80.00	The cor. of secs. 23, 24, 25, and 26; 30 ft. below top of spur.

Land, mountainous, with steep slopes; general drainage in and exposure E. on portion of mile E. of ridge, and S. Remainder of mile.
Soil, clay loam, rich in humus; 3rd rate.

Chains	
	Timber, aspen and Douglas fir. Undergrowth, deer browse and chokecherry; medium growth of grass and weeds. Fair grazing land.
	N. 0° 01' W., bet. secs. 23 and 24.
	Ascend steep S. slope, over mountainous land, through medium dense growth of aspen timber and dense growth of deer browse and short chokecherry brush.
3.00	Leave aspen timber, brs. NE. and S. 80° W.
4.80	Enter medium dense growth of balsam, Douglas fir, and aspen timber, brs. E. and W.
12.80	Slope changes from S. to SW.; leave under-brush, continue ascent through scattered aspens.
34.80	Top of spur, 400 ft. above the sec. cor., projects SE. approximately 6 chs., thence S.; descend along E. slope.
36.80	Enter dense aspen timber, brs. E. and W.
40.00	On E. slope, 10 ft. below top of spur
	Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground, for the ¼ sec. cor., with brass cap mkd.

¼
S 23 | S 24
1934

from which

An aspen, 8 ins. in diam., brs. N. 4° 30' E., 22 lks. dist., mkd. ¼ S24 BT.

An aspen, 15 ins. in diam., brs. S. 55° 45' W., 27 lks. dist., mkd. ¼ S23 BT.

41.00	Leave aspen timber, brs. N. 30° E. and S. 30° W.
44.80	Bottom of small hollow, drains SE.; continue ascent over SE. slope.
53.60	Top of divide between Fish Creek and Lake Fork drainage, 95 ft. above the ¼ sec. cor., brs. N. 20° E. and S. 30° W. Graded road follows along top of divide. Continue along gradual W. slope of divide top.
69.90	Enter medium dense growth of short chokecherry brush, brs. E. and W.
73.30	Leave chokecherry brush, brs. E. and W.
80.00	On gradual W. slope, 5 ft. below top of divide
	Set an iron post, 3 ft. long, 2 ins. diam., 26 ins. in the ground, for the cor. of secs. 13, 14, 23, and 24, with brass cap mkd.

T11S R5E
S 14 | S 13
S 23 | S 24
1934

raise a mound

Chains	
	of stone, 4 ft. base, 3 ft. high, W. of cor.
	No suitable bearing trees available.
	Land, mountainous, with steep slopes on S. ½ mile; exposur and drainage S. on S. portion of mile, and W. on portion of mile N. of divide. Soil, clay loam; 3rd rate. Timber, aspen, balsam, and Douglas fir on portions of mile Undergrowth, deer browse and chokecherry brush on portions of mile; medium growth of grass and weeds. Good grazing land.
	East, on random line, bet. secs. 13 and 24.
40.00	Set temp. ¼ sec. cor.
79.98	Intersect the E. bdy. of the Tp., at the cor. of secs. 13 and 24, which is an iron post, 2 ins. diam., extending 9 ins. above the ground, firmly set, properly mkd. and witnessed as described in the official record.
	Thence
	West, on true line, bet. secs. 13 and 24.
	Ascend along N. slope, over mountainous land.
6.30	Enter medium dense growth of aspen, Douglas fir, and balsa timber, brs. N. 60° E. and S. 60° E.
19.80	Top of divide between Fish Creek and Mill Fork drainage, 10 ft. above the sec. cor., brs. S. 60° E. from NW.; continue along gradual S. slope of divide.
21.30	Leave timber, brs. N. 10° E. and S. 10° W.
22.50	Graded road, brs. N. 70° W. and S. 70° E.
35.20	Top of ascent, 5 ft. above top of divide; descend gradually along SW. slope.
39.99	On SW. slope, 35 ft. below top of ascent Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground, for the ¼ sec. cor., with brass cap mkd. ¼ S 13 / S 24 1934 from which An aspen, 8 ins. in diam., brs. S. 66° 15' W., 21 lks. dist., mkd. ¼ S24 BT. An aspen, 8 ins. in diam., brs. N. 68° 15' W., 82 lks. dist., mkd. ¼ S13 BT.
48.10	Leave aspen timber, brs. N. 15° E. and S. 70° W.
49.40	Head of small ravine, drains SW.; ascend gradually along S. slope, through scattered short chokecherry brush.
65.70	Head of draw, drains SE.; leave chokecherry brush; ascend gradual E. slope.
76.90	Top of divide between Fish Creek and Lake Fork drainage, brs. N. approximately 8 chs. thence easterly, and S. 15° W. 20 ft. above the ¼ sec. cor.; graded road follows along top of divide.

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Chains	
	Descend W. slope.
77.80	Ungraded road, brs. N. 10° W. and S. 10° E. approximately 50 lks. to junction with road crossed at 76.90.
79.98	The cor. of secs. 13, 14, 23, and 24; 10 ft. below top of divide.
	Land, mountainous, with rolling slopes. Soil, gravelly clay loam; 3rd rate. Timber, aspen, Douglas fir, and balsam on portions of E. half of mile. Undergrowth, chokecherry and some scattered deer browse; medium growth of grass and weeds. Good grazing land.
	N. 0° 01' W., bet. secs. 13 and 14.
	Ascend over mountainous land, along gradual W. slope of divide.
9.50	Ungraded road, brs. N. 30° W. and S. 10° E.
17.30	Top of divide between Mill Fork and Lake Fork drainage, 10 ft. above sec. cor., brs. S. 80° E. and W.; descend gradual N. slope.
36.90	Enter scattered aspen timber, brs. NW. and SE.
40.00	On gradual N. slope, 175 ft. below top of divide
	Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground, for the ¼ sec. cor., with brass cap mkd. ¼ S 14 | S 13 1934 from which An aspen, 10 ins. in diam., brs. S. 19° E., 171 lks. dist., mkd. ¼ S13 BT. An aspen, 8 ins. in diam., brs. S. 58° W., 21 lks. dist., mkd. ¼ S14 BT.
40.50	Leave timber, brs. SE. and NW.
45.40	Enter aspen timber, brs. SE. and N. 30° W.
48.00	Top of spur, projects N. 15° W.
54.40	Trail, brs. S. 30° W. and N.
68.40	Top of same spur as at 48.00 chs., 205 ft. below the ¼ sec. cor., projects N. 20° E.; descend NW. slope through dense fir and aspen timber.
75.20	Spring, 50 lks. E. of line, drains N. 60° W.
80.00	On NW. slope, 155 ft. below top of spur
	Set an iron post, 3 ft. long, 2 ins. diam., 27 ins. in the ground, and surrounded by a mound of stone to top, for the cor. of secs. 11, 12, 13, and 14, with brass cap mkd.

U. S. GOVERNMENT PRINTING OFFICE: 1931 6—8155

Chains	
	T11S R5E S 11 | S 12 S 14 | S 13 1934
	from which
	An aspen, 8 ins. in diam., brs. N. 46° 15' E., 96 lks. dist., mkd. T11S R5E S12 BT.
	An aspen, 10 ins. in diam., brs. S. 8° 30' E., 24 lks. dist., mkd. T11S R5E S13 BT.
	An aspen, 11 ins. in diam., brs. S. 11° 30' W., 33 lks dist., mkd. T11S R5E S14 BT.
	An aspen, 10 ins. in diam., brs. N. 32° 45' W., 28 lks dist., mkd. T11S R5E S11 BT.
	From the cor. point, Terry Spring brs. N. 36° 28' W., approximately 50 chs. dist.
	Land, mountainous, with rolling slopes on S. half of mile, and steep slopes on N. half of mile. Soil, rocky clay loam; 3rd rate. Timber, aspen, Douglas fir, and balsam on portions of mile Undergrowth, widely scattered deer browse and chokecherry; medium growth of grass and weeds. Fair grazing land.
	East, on random line, bet. secs. 12 and 13.
40.00	Set temp. ¼ sec. cor.
79.88	Intersect the E. bdy. of the Tp. 3 lks. S. of the cor. of secs. 12 and 13, which is an iron post, 2 ins. diam., extending 8 ins. above ground, firmly set, properly mkd. and witnessed as described in the official record.
	Thence
	S. 89° 59' W., on true line, bet. secs. 12 and 13.
	Ascend E. slope, over mountainous land, through scattered balsam, Douglas fir, and aspen timber; and chokecherry, deer browse, and wild currant undergrowth.
3.40	Leave balsam and Douglas fir timber; chokecherry becomes dense.
15.70	Top of ridge, 350 ft. above sec. cor., brs. N. and S.; leave dense chokecherry; descend W. slope, through medium dense growth of balsam and Douglas fir timber, and chokecherry, deer browse, and maple undergrowth.
20.90	Slope changes from W. to NW.; continue descent.
28.80	Timber becomes dense.
31.40	Head of draw, 365 ft. below top of ridge, drains N. 15° W., ascend gradually along N. slope.
36.40	Top of spur, 25 ft. above head of draw, projects N. 30° W.; timber becomes scattered, brs. with spur; descend SW. slope
39.94	On steep W. slope, 100 ft. below top of spur
	Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground, surrounded by a mound of stone to top, for the ¼ sec. cor., with brass cap mkd.

U. S. GOVERNMENT PRINTING OFFICE: 1931 6—8165

Chains	
	S 12 / S 13
	1934
	A balsam fir, 6 ins. in diam., brs. S. 62° 30' W., 53 lks. dist., mkd. ¼ S13 BT. from which
	A balsam fir, 8 ins. in diam., brs. N. 35° 30' W., 39 lks. dist., mkd. ¼ S 12 BT.
47.20	Bottom of draw, 225 ft. below the ¼ sec. cor., drains N. 35° W.; enter dense balsam, Douglas fir, and aspen timber, and deer browse undergrowth, brs. with bottom of draw; ascend NE. slope.
49.10	Top of spur, 10 ft. above bottom of draw, projects N. 10° E.; descend NW. slope.
50.10	Bottom of canyon, 25 ft. below top of spur, drains N. 20° E. from S. 10° W.; timber becomes scattered, enter dense growth of chokecherry brush; ascend NE. slope.
60.50	Top of spur, 295 ft. above bottom of canyon, projects N. 30° E., descend NW. slope through dense to medium dense growth of Douglas fir and balsam with scattered aspen timber and medium dense growth of deer browse.
66.40	Bottom of draw, 110 ft. below top of spur, drains N. 20° E.; enter medium dense growth of chokecherry brush; leave Douglas fir and balsam timber, brs. with bottom of draw; ascend E. slope, through scattered aspen timber.
69.80	Leave aspen timber, brs. N. and S.
76.70	Top of spur, 295 ft. above bottom of draw; trail follows along top; descend W. slope.
79.88	The cor. of secs. 11, 12, 13, and 14; 20 ft. below top of spur.
	Land, mountainous, with steep slopes; general drainage and exposure N. into Mill Fork. Soil, rocky clay loam, rich in humus; 3rd rate. Timber, aspen, Douglas fir, and balsam, with some scattered limber pine. Undergrowth, deer browse, chokecherry, wild currant, and maple brush; medium growth of grass and weeds. Fair grazing land.
	N. 0° 01' W., bet. secs. 11 and 12.
	Descend along NW. slope, over mountainous land, through scattered aspen, Douglas fir, and balsam timber, with medium growth of elder berry and deer browse undergrowth.
20.50	Slope changes from NW. to N.; enter dense aspen timber, brs. E. and W.
28.70	Leave dense aspen, enter scattered maple brush, brs. E. and W.
40.00	On steep W. slope, 590 ft. below sec. cor.
	Set an iron post, 3 ft. long, 1 in. diam., 18 ins. in the ground to solid rock, and in a mound of stone to top, for the ¼ sec. cor., with brass cap mkd.

U. S. GOVERNMENT PRINTING OFFICE 1934 8—6155

Chains

$\frac{1}{4}$

S 11 | S 12

1934

from which

A balsam fir, 8 ins. in diam., brs. S. 40° 45' E., 36 lks. dist., mkd. $\frac{1}{4}$ S12 BT.

A balsam fir, 6 ins. in diam., brs. N. 36° W., 36 lks. dist., mkd. $\frac{1}{4}$ S11 BT.

56.20 Bottom of Left Fork of Mill Fork Canyon, 285 ft. below the $\frac{1}{4}$ sec. cor., drains N. 24° E. from S. 30° W.; ascend gradually along E. slope, through medium growth of aspen, maple, chokecherry, oak, service berry, and mountain laure

58.70 Trail, brs. N. 25° E. and S. 30° W.

68.30 Top of spur, 45 ft. above bottom of canyon, projects NE.; descend N. slope.

71.60 Bottom of draw, 70 ft. below top of spur, drains N. 65° E. from SW., joined by draw from NW.; ascend S. slope through scattered aspen and balsam timber, with medium dense growth of maple, manzanita, service berry, mahogany, and chokecherry undergrowth.

80.00 On S. slope, 215 ft. above bottom of draw

Set an iron post, 3 ft. long, 2 ins. diam., 27 ins. in the ground, for the cor. of secs. 1, 2, 11, and 12, with brass cap mkd.

T11S R5E

S 2 | S 1

S 11 | S 12

1934

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

No suitable bearing trees available.

Land, mountainous, with steep slopes; exposure and drainage E. and W. into canyon bottom.
Soil, rocky clay loam; 3rd rate.
Undergrowth, oak, service berry, chokecherry, manzanita, deer browse, and mahogany; medium growth of grass and weeds.
Fair grazing land.

N. 89° 59' E., on random line, bet. secs. 1 and 12.

40.00 Set temp. $\frac{1}{4}$ sec. cor.

79.82 Intersect the E. bdy. of the Tp., at the cor. of secs. 1 and 12, which is an iron post, 2 ins. diam., firmly set, properly mkd. and witnessed as described in the official record.

Thence

S. 89° 59' W., on true line, bet. secs. 1 and 12.

Ascend E. slope, through scattered balsam timber and

Chains	
	dense growth of oak and scattered mountain laurel and deer browse undergrowth.
4.60	Top of spur, 120 ft. above the sec. cor., brs. N. 5° W. from S. 20° W.; descend NW. slope, through scattered balsam, service berry, mountain laurel, and deer browse.
15.70	Bottom of draw, near head, 250 ft. below top of spur, drains N. 20° W.; ascend NE. slope; enter medium dense growth of aspen timber.
25.10	Top of spur, 80 ft. above bottom of draw, projects N. 30° W.; descend steep W. slope.
39.30	Bottom of canyon, 540 ft. below top of spur, drains N. 5° W. from S. 20° W.; enter medium dense growth of aspen timber; ascend E. slope.
39.91	On E. slope, 20 ft. above bottom of canyon
	Set an iron post, 3 ft. long, 1 in. diam., 29 ins. in the ground and surrounded by a mound of stone to top, for the ¼ sec. cor., with brass cap mkd.
	¼ S 1 / S 12
	1934
	from which
	An aspen, 8 ins. in diam., brs. N. 54° 30' E., 19 lks. dist., mkd. ¼ S 1 BT.
	An aspen, 6 ins. in diam., brs. S. 39° 30' E., 36 lks. dist., mkd. ¼ S12 BT.
41.40	Aspen becomes scattered.
52.20	Top of spur, 415 ft. above ¼ sec. cor., projects N. 10° E., descend NW. slope, through medium dense growth of aspen and scattered balsam with medium dense growth of deer browse, wild currant, and service berry undergrowth.
66.00	Trail, brs. N. 20° E. and S. 20° W.
67.10	Bottom of Left Fork of Mill Fork Canyon, 325 ft. below top of spur, drains N. 33° E.; ascend E. slope.
73.00	Leave timber, brs. N. and S.
77.10	Slope changes from E. to SE., continue ascent.
79.82	The cor. of secs. 1, 2, 11, and 12.
	Land, mountainous, with steep slopes; general exposure and drainage N. Soil, rocky clay loam; 3rd rate. Timber, aspen and balsam, on portions of mile. Undergrowth, oak, service berry, mountain laurel, deer browse, and some maple brush; medium growth of grass and weeds. Fair grazing land.
	N. 0° 01' W., bet. secs. 1 and 2.
	Ascend S. slope, through dense growth of oak and service berry and medium growth of mahogany brush.

Chains

3.90 Top of spur, 60 ft. above the sec. cor., projects E. fr
W.; descend NE. slope; enter medium dense growth of bal
and aspen timber with undergrowth of scattered mountain
laurel, manzanita and wild rose brush.

17.90 Bottom of draw, 220 ft. below top of spur, drains S. 70°
E., from N. 70° W.; ascend steep S. slope.

25.60 Top of spur, 255 ft. above bottom of draw, projects S. 7
E.; descend NE. slope.

36.60 Junction of two draws, 165 ft. below top of spur, drains
S. 60° E. from S. 50° W. and W.; ascend steep SW. slope.

40.00 On steep SW. slope, 50 ft. above bottom of draw junction

Set an iron post, 3 ft. long, 1 in. diam., 25 ins. in th
ground and surrounded by a mound of stone to top, for th
¼ sec. cor., with brass cap mkd.

¼
S 2 | S 1
1934

from which

A mahogany, 6 ins. in diam., brs. S. 51° 30' E., 105
lks. dist., mkd. ¼ S 1 BT.

A mahogany, 5 ins. in diam., brs. N. 1° 30' W., 53 l
dist., mkd. ¼ S 2 BT.

54.76 From this point, Terry spring brs. S. 17° 23' W., approx-
imately 99 chs. dist.

55.10 Top of ridge, 415 ft. above the ¼ sec. cor., brs. N. 20°
E., and S. 50° W.; descend along steep W. slope.

55.80 Enter dense balsam and limber pine timber, brs. NE. and S

65.40 Bottom of draw, 245 ft. below top of ridge, drains N. 60°
W.; continue descent along steep W. slope.

67.93 Intersect the second stan. par. S.; on steep W. slope, 28
ft. below top of ridge

Set an iron post, 3 ft. long, 2 ins. diam., 27 ins. in th
ground, for the closing corner of secs. 1 and 2, with bra
cap mkd.

T10S R5E
S 36

S 2 | S 1
T11S R5E
CC
1934

from which

A balsam fir, 16 ins. in diam., brs. S. 69° 30' E.,
17 lks. dist., mkd. T11S R5E S1 CC BT.

A balsam fir, 9 ins. in diam., brs. S. 63° 30' W., 46
lks. dist., mkd. T11S R5E S2 CC BT.

From point of intersection, the restored stan. ¼ sec. cor
S. bdy. sec. 36, T. 10 S., R. 5 E., heretofore described,
brs. N. 89° 41' E., 5.975 chs. dist.

Chains	
	Land, mountainous, with steep slopes; general exposure and drainage E. into branch of Mill Fork. Soil, rocky clay loam; 3rd rate. Timber, balsam fir, aspen, and limber pine. Undergrowth, oak, service berry, mountain laurel, manzanita, deer browse, and some sage brush; medium growth of grass and weeds. Fair grazing land.
	From the cor. of secs. 34 and 35, on the S. bdy., which is an iron post, 2 ins. diam., extending 6 ins. above ground, firmly set, properly mkd. and witnessed as described in the official records.
	N. 0° 01' W., bet. secs. 34 and 35.
	Ascend steep S. slope, over mountainous land, through scattered Douglas fir and aspen timber with a dense undergrowth of deer browse.
3.00	Aspen timber becomes medium dense.
11.50	Top of spur, 215 ft. above the sec. cor., projects S.85° E. from W., descend NE. slope.
17.30	Timber becomes scattered, brs. E. and W.
32.40	Bottom of North Ditch Fork Canyon, 285 ft. below top of spur, drains S.60° E. from N.80° W., small draw from N.10° E. joins canyon bottom approximately 1½ chs. E. of line, ascend SE. slope.
33.60	Trail, brs. with canyon bottom.
37.50	Leave timber, brs. E. and W.
40.00	On SE. slope, 130 ft. above bottom of canyon
	Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground for the ¼ sec. cor., with brass cap mkd.

¼
S34 | S35
1934

from which

An aspen, 9 ins. in diam., brs. N.66°15'E., 143 lks. dist., mkd. ¼ S35 BT.

An aspen, 12 ins. in diam., brs. S.53°W., 172 lks. dist., mkd. ¼ S34 BT.

41.60	Enter dense aspen timber, with dense undergrowth of deer browse and chokecherry brush, brs. E. and W.
50.00	Slope changes from SE. to S., continue ascent.
75.70	Top of spur, 500 ft. above the ¼ sec. cor., projects SE., descend NE. slope.
79.40	Enter dense growth of Douglas fir mixed with aspen timber, brs. E. and W.
80.00	On NE. slope, 40 ft. below top of spur, in small opening in timber,

Chains	
	Set an iron post, 3 ft. long, 2 ins. diam., 27 ins. in t ground, for the cor. of secs. 26, 27, 34, and 35, with brass cap mkd.
	T11S R5E S27 | S26 S34 | S35 1934 from which
	A Douglas fir, 10 ins. in diam., brs. N.80°E., 47 lks. dist., mkd. T11S R5E S26 BT.
	A Douglas fir, 7 ins. in diam., brs. S.7°30'E., 61 lks dist., mkd. T11S R5E S35 BT.
	A Douglas fir, 16 ins. in diam., brs. S.75°30'W., 66 l dist.,mkd. T11S R5E S34 BT.
	A Douglas fir, 14 ins. in diam., brs. N.79°W., 60 lks. dist., mkd. T11S R5E S27 BT.
	Land, mountainous, with steep slopes; exposure and drainage,N. on S. ½ mile and S. on N. ½ mile, into North Ditch Fork. Soil, dark mountain loam, rich in humus; 3rd rate. Timber, aspen and Douglas fir. Undergrowth, deer browse and chokecherry; medium growth ofgrass and weeds. Fair grazing land.
	East, on random line, bet. secs. 26 and 35.
40.00	Set temp. ¼ sec. cor.
79.86	Intersect N. and S. line 5 lks. S. of the cor. of secs. 25, 26, 35, and 36
	Thence
	S. 89° 58' W., on true line bet. secs. 26 and 35.
	Ascend steep E. slope, over mountainous land, through dense growth of aspen and scattered growth of balsam timber, with deer browse undergrowth.
16.10	Top of spur, 315 ft. above the sec. cor., projects S., descend W. slope.
38.00	Bottom of canyon, 440 ft. below top of spur; stream of clear water, 2 lks. wide and 1 in. deep, drains S. 5° W. approximately 8 chs. dist. thence S. 15° E., ascend E. slope.
39.93	On E. slope, 25 ft. above bottom of canyon
	Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground surrounded by a mound of stone to top of post, for the ¼ sec. cor., with brass cap mkd.
	¼ S 26 / S 35 1934 from which

Chains	
	An aspen, 12 ins. in diam., brs. S. 78°15' E., 59 lks. dist., mkd. ¼ S35 BT.
	An aspen, 10 ins. in diam., brs. N. 30°15' E., 93 lks. dist., mkd. ¼ S26 BT.
	Continue ascent, through medium dense growth of balsam and aspen timber and deer browse undergrowth.
43.30	Top of spur, 55 ft. above the ¼ sec. cor., projects S.30°E. approximately 8 chs.; descend along rolling S. slope.
54.10	Bottom of canyon, 15 ft. below top of spur, drains S. 65°E.; ascend NE. slope.
79.86	The cor. of secs. 26, 27, 34, and 35; on NE. slope, 430 ft. above bottom of canyon.
	Land, mountainous, with steep slopes; general exposure and drainage SE. into Fish Creek. Soil, clay mountain loam, rich in humus; 3rd rate. Timber, aspen and balsam, with some Douglas fir on portions of mile. Undergrowth, deer browse with scattered service berry and chokecherry; medium growth of grass and weeds. Fair grazing land.
	N. 0° 01' W., bet. secs. 26 and 27.
	Descend steep NE. slope, over mountainous land, through dense growth of aspen, Douglas fir, and balsam fir timber; with medium dense growth of wild currant and deer browse brush.
18.10	Bottom of draw, 195 ft. below the sec. cor., drains S.60°E. heads N. 70° W., about 10 chs. dist.; ascend S. slope.
18.90	Leave timber, brs. E. and W.
24.30	Enter dense short chokecherry and widely scattered aspens, brs. E. and W.
28.10	Leave chokecherry brush, brs. E. and W.
31.85	Top of divide between Fish Creek and Lake Fork drainage, 435 ft. above bottom of draw, brs. N. 52° E. from S. 77° W., from this point the Iceberg Ranger Station brs. N. 51°45' E. approximately ¼ mile; descend gradual N. slope.
40.00	On gradual N. slope, 50 ft. below top of divide, in S. edge of dense growth of aspen timber.
	Set an iron post, 3 ft. long, 1 in. diam., 18 ins. in the ground to solid rock surrounded by a large mound of stone to the top of post, for the ¼ sec. cor., with brass cap mkd.
	¼ S27 | S26 1934 from which
	A Douglas fir, 14 ins. in diam., brs. S. 77° E., 24 lks. dist., mkd. ¼ S26 BT.

Chains	
	An aspen, 12 ins. in diam., brs. S. 46° W., 31 lks. dist., mkd. ¼ S27 BT.
	Continue descent over gradual N. slope through medium dens growth of aspen, Douglas fir, and balsam fir timber; with medium dense growth of deer browse, elder berry, and thim berry undergrowth.
40.30	Graded road, brs. N. 70° E. from S. 70° W.
73.80	Bottom of draw, 575 ft. below the ¼ sec. cor., drains N. 70° W. from S. 70°E., ascend steep SW. slope, enter dense growth of chokecherry brush, timber becomes scatter
80.00	On steep SW. slope, 115 ft. above bottom of canyon, in de chokecherry brush.
	Set an iron post, 3 ft. long, 2 ins. diam., 28 ins. in th ground, for the cor. of secs. 22, 23, 26, and 27, with brass cap mkd.

T11S R5E

S22	S23
S27	S26

1934

from whic

A balsam fir, 26 ins. in diam., brs. N. 49°30' E., 147 lks. dist., mkd. T11S R5E S23 BT.

A Douglas fir, 22 ins. in diam., brs. S. 69°15' E., 303 lks. dist., mkd. T11S R5E S26 BT.

A balsam fir, 24 ins. in diam., brs. S. 37°15' W., 233 lks. dist., mkd. T11S R5E S27 BT.

A Douglas fir, 26 ins. in diam., brs. N. 13° W., 352 lks. dist., mkd. T11S R5E S22 BT.

Land, mountainous, with steep slopes; exposure and drainag SE. on S. ½ mile, and N. on N. ½ mile.
Soil, rocky clay loam; 3rd rate.
Timber, aspen, Douglas fir, and balsam fir.
Undergrowth, deer browse, chokecherry, elder berry, and thimble berry brush; medium growth of grass and weeds.
Good grazing land.

	N. 89° 58' E., on random line, bet. secs. 23 and 26
40.00	Set temp. ¼ sec. cor.
80.04	Intersect N. and S. line, 14 lks. N. of the cor. of secs. 23, 24, 25, and 26.
	Thence
	N. 89° 56' W., on true line, bet. secs. 23 and 26.
	Descend rolling SW. slope, over mountainous land, through dense balsam, Douglas fir, and aspen timber.
9.90	Bottom of draw, 70 ft. below the sec. cor., drains S., Leave timber, brs. N. and S.; continue along S. slope of canyon bottom.
15.80	Bottom of canyon, 60 ft. below the sec. cor., drains S. 70° E.; ascend gradually along NE. slope.

Chains	
37.30	Enter scattered aspen timber, continue over gradual NE. slope of divide.
39.60	Graded road, brs. N. 26° W. from S. 26° E.
40.02	On top of divide between Fish Creek and Lake Fork drainage, 235 ft. above canyon bottom, brs. N. 26° W. and S. 26° E.
	Set an iron post, 3 ft. long, 1 in. diam., 28 ins. in the ground, for the ¼ sec. cor., with brass cap mkd.
	¼ S 23 / S 26
	1934 from which
	An aspen, 16 ins. in diam., brs. N. 64° E., 90 lks. dist., mkd. ¼ S 23 BT.
	An aspen, 20 ins. in diam., brs. S. 18° E., 99 lks. dist., mkd. ¼ S 26 BT.
	Raise a mound of stone, 3 ft. base, 2½ ft. high, N. of cor.
	From the cor. a sheep corral brs. North, about 10 chs. dist.
	Descend gradual W. slope, along top of spur.
45.50	Leave top of spur, projects N. 80° W.; leave scattered aspen timber; continue gradual descent over W. slope.
62.00	Slope changes from W. to SW., continue descent.
69.30	From this point the Iceberg Ranger Station brs. S. 9° 17' E.; enter dense growth of chokecherry brush, brs. N. and S.
73.70	Enter scattered aspen, balsam, and Douglas fir timber, brs. N. and S.
80.04	The cor. of secs. 22, 23, 26, and 27; on SW. slope, 460 ft. below top of divide.
	Land, mountainous, with steep and rolling slopes; exposure and drainage E. on E. ½ mile, and W. on W. ½ mile.
	Soil, rocky clay loam; 3rd rate.
	Timber, balsam, Douglas fir, and aspen.
	Undergrowth, deer browse and chokecherry; medium growth of grass and weeds.
	Good grazing land.
	N. 0° 01' W., bet. secs. 22 and 23.
	Ascend steep SW. slope, over mountainous land, through scattered balsam, aspen, and Douglas fir timber, with dense undergrowth of chokecherry brush.
5.60	Top of spur, 85 ft. above the sec. cor., projects W., timber becomes medium dense and chokecherry becomes scattered; descend steep N. slope.
16.70	Bottom of draw, 255 ft. below top of spur, drains W., ascend steep S. slope.
21.90	Chokecherry becomes dense, brs. E. and W.
28.40	Leave chokecherry brush and timber, brs. E. and W.
30.20	Top of spur, 380 ft. above bottom of draw, projects N. 70° W. from E.; descend steep N. slope.
34.60	Enter dense growth of aspen timber, brs. E. and W.

Chains

On steep N. slope, 235 ft. below top of spur.

Set an iron post, 3 ft. long, 1 in. diam., 28 ins. in the ground, for the ¼ sec. cor., with brass cap mkd.

¼

S 22 | S 23

1934

from which

An aspen, 12 ins. in diam., brs. S. 6° E., 17 lks. dist., mkd. ¼ S23 BT.

An aspen, 8 ins. in diam., brs. S. 73° W., 66 lks. dist., mkd. ¼ S22 BT.

Continue descent, through dense growth of aspen and scattered Douglas fir and balsam timber, with some limber pine.

45.40 Bottom of draw, 220 ft. below the ¼ sec. cor., drains W. from E.; ascend steep SW. slope.

57.20 Top of spur, 125 ft. above bottom of draw, projects W.; descend along rolling NW. slope; enter scattered mountain laurel and chokecherry brush.

77.00 Bottom of canyon, 240 ft. below top of spur, stream of clear water, 4 lks. wide and 2 ins. deep, course S. 50° W. from N. 50° E.; timber becomes scattered, brs. with canyon bottom; ascend SE. slope.

80.00 On SE. slope, 105 ft. above bottom of canyon

Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the ground, to solid rock, and in a mound of stone to top, for the cor. of secs. 14, 15, 22, and 23, with brass cap mkd.

T11S R5E

S 15	S 14
S 22	S 23

1934

from which

A Douglas fir, 26 ins. in diam., brs. N. 88° E., 179 lks. dist., mkd. T11S R5E S14 BT.

A Douglas fir, 30 ins. in diam., brs. S. 80° E., 108 lks. dist., mkd. T11S R5E S23 BT.

A balsam fir, 8 ins. in diam., brs. S. 62° W., 257 lks. dist., mkd. T11S R5E S22 BT.

A Douglas fir, 22 ins. in diam., brs. N. 18° W., 118 lks. dist., mkd. T11S R5E S15 BT.

From the cor. point, a spring located near the center of section 22, brs. S. 42° 27' W.

Land, mountainous, with steep slopes; general drainage and exposure W. into Lake Fork.
Soil, rocky clay loam, rich in humus; 3rd rate.
Timber, aspen, Douglas fir, balsam, and limber pine.
Undergrowth, chokecherry, mountain laurel, and oak brush; medium growth of grass and weeds.
Fair grazing land.

CHAINS	
	S. 89° 56' E., on random line, bet. secs. 14 and 23.
40.00	Set temp. ¼ sec. cor.
80.08	Intersect N. and S. line, 11 lks. N. of the cor. of secs. 13, 14, 23, and 24.
	Thence
	N. 89° 51' W., on true line, bet. secs. 14 and 23.
	Descend steep W. slope, over mountainous land, through scattered aspen and balsam timber and chokecherry undergrowth.
29.70	Bottom of draw, 645 ft. below sec. cor., stream of clear water, 1 lk. wide and 1 in. deep, drains S. 50° W., leave balsam timber; ascend SE. slope through dense growth of oak, service berry, chokecherry, and deer browse, with scattered aspen timber.
36.20	Top of ascent, 20 ft. above bottom of draw, slopes S., descend along rolling S. slope.
40.04	On S. slope, 50 ft. below top of ascent
	Set an iron post, 3 ft. long, 1 in. diam., 30 ins. in the ground, for the ¼ sec. cor., with brass cap mkd.
	¼ S 14 / S 23 / 1934 from which
	An aspen, 6 ins. in diam., brs. N. 17° E., 11 lks. dist., mkd. ¼ S 14 BT.
	An aspen, 6 ins. in diam., brs. S. 29°30' W., 22 lks. dist., mkd. ¼ S 23 BT.
69.00	Enter bottom of draw, 335 ft. below the ¼ sec. cor., drains W. from S. 80° E.
74.60	Leave bottom of draw, 375 ft. below the ¼ sec. cor., drains S. 70° W., ascend SE. slope.
80.08	The cor. of secs. 14, 15, 22, and 23; on SE. slope, 60 ft. above bottom of draw.
	Land, mountainous, with steep slopes; general exposure and drainage SW. Soil, rocky clay loam; 3rd rate. Timber, aspen and balsam fir. Undergrowth, oak, chokecherry, service berry, and deer browse; medium growth of grass and weeds. Fair grazing land.
	N. 0° 01' W., bet. secs. 14 and 15.
	Ascend steep SE. slope, over mountainous land, through medium dense growth of oak, service berry, sage, and chokecherry brush and scattered Douglas fir and balsam timber.
12.60	Enter dense aspen timber, brs. E. and W.
15.00	Leave aspen timber, brs. E. and W., continue through dense growth of chokecherry brush.

Chains

18.70 Head of draw, drains S. 60° E., continue ascent.

29.80 Top of spur, 660 ft. above the sec. cor., projects S. 57° W., descend NW. slope, through scattered aspen and Douglas fir timber with medium growth of sagebrush and deer browse undergrowth.

40.00 On NW. slope, 120 ft. below top of spur

Set an iron post, 3 ft. long, 1 in. diam., 18 ins. in the ground to solid rock surrounded by a mound of stone to top of post, for the ¼ sec. cor., with brass cap mkd.

¼

S 15 | S 14

1934

from which

A balsam fir, 8 ins. in diam., brs. S. 35°45' E., 63 lks. dist., mkd. ¼ S 14 BT.

A Douglas fir, 24 ins. in diam., brs. N. 6°30' W., 274 lks. dist., mkd. ¼ S 15 BT.

42.20 Head of draw, 5 ft. below the ¼ sec. cor., drains S. 75° W., ascend S. slope.

55.90 Top of spur, 230 ft. above bottom of draw, projects W., descend NW. slope.

68.70 Leave sagebrush, enter dense growth of aspen and balsam fir timber, brs. E. and W.

73.40 Head of draw, 200 ft. below top of spur, drains SW., ascend S. slope.

78.80 Leave timber, brs. E. and W.; continue ascent through dense growth of chokecherry and oak brush.

80.00 On S. slope, 55 ft. above head of draw

Set an iron post, 3 ft. long, 2 ins. diam., 27 ins. in the ground surrounded by a mound of stone to top of post, for the cor. of secs. 10, 11, 14, and 15, with brass cap mkd.

T11S R5E

S10	S11
S15	S14

1934

from which

An aspen, 8 ins. in diam., brs. S. 57° E., 122 lks. dist., mkd. T11S R5E S14 BT.

An aspen, 9 ins. in diam., brs. S. 34°30' W., 182 lks. dist., mkd. T11S R5E S15 BT.

No suitable bearing trees available in secs. 10 and 11, raise a mound of stone, 3 ft. base, 2½ ft. high, W. of the cor.

Land, mountainous, with steep slopes; exposure and drainage SE. on S. ½ mile and W. on N. ½ of mile.
Soil, rocky clay loam; 3rd rate.
Timber, aspen, Douglas fir, balsam fir, and some limber pine on portions of mile.

Chains	
	Undergrowth, chokecherry, oak, sage, deer browse, and elder berry brush; medium growth of grass and weeds. Fair grazing land.
	S. 89° 51' E., on random line, bet. secs. 11 and 14.
40.00	Set temp. ¼ sec. cor.
80.04	Intersect the N. and S. line, 2 lks. S. of the cor. of secs. 11, 12, 13, and 14.
	Thence
	N. 89° 52' W., on true line, bet. secs. 11 and 14.
	Descend steep W. slope, over mountainous land, through medium dense growth of fir timber and scattered aspen and maples.
9.70	Bottom of draw, 220 ft. below sec. cor., drains N., ascend E. slope through medium growth of aspen timber and chokecherry undergrowth.
20.40	Leave chokecherry brush, continue ascent over gradual E. slope of spur.
30.10	Top of wide flat spur, projects N.20°E., descend gradually along NW. slope.
38.60	Bottom of ravine, drains NE., ascend gradual E. slope.
40.02	On gradual E. slope, 360 ft. above bottom of draw
	Set an iron post, 3 ft. long, 1 in. diam., 28 ins. in the ground for the ¼ sec. cor., with brass cap mkd.
	¼ S 11 / S 14
	1934 from which
	An aspen, 6 ins. in diam., brs. S. 36°30' E., 6 lks. dist., mkd. ¼ S 14 BT.
	An aspen, 14 ins. in diam., brs. N. 9° W., 9 lks. dist., mkd. ¼ S 11 BT.
	From this point a small spring brs. approximately N.35°E., approximately 8 chs. dist.
59.50	Top of Garrett Ridge, 275 ft. above the ¼ sec. cor., brs. N. 35° W. from S. 35° E., leave timber brs. with ridge top, descend W. slope.
60.90	Ungraded road, brs. N. 30° W. from S. 30° E.
62.60	Enter medium dense growth of aspen timber, brs. N. 30° W. from S. 30° E.
66.10	Leave aspen timber, enter medium dense growth of short sagebrush, brs. N. and S.
67.40	Old unused road, on W. edge of ridge top, brs. N. 20° W. from S. 20° E.
69.30	Leave sagebrush, brs. N. and S.

Chains	
72.60	Enter medium dense growth of aspen timber, brs. N. and S.
74.00	Leave aspen timber, enter dense growth of chokecherry brs. N. and S.
80.04	The cor. of secs. 10, 11, 14, and 15; 275 ft. below top of ridge.
	Land, mountainous, with steep and rolling slopes; exposure and drainage NE. on E. ¾ of mile and W. on W. ¼ of mile. Soil, rocky clay loam; 3rd rate. Timber, aspen, Douglas fir, and balsam fir. Undergrowth, chokecherry, sage, deer browse, elderberry, and maple brush; medium growth of grass and weeds. Fair grazing land.
	N. 0° 01' W., bet. secs. 10 and 11.
	Ascend S. slope, over mountainous land, through dense growth of chokecherry brush.
10.00	Trail, brs. E. and N. 80° W., leave chokecherry brush, enter medium growth of aspen and scattered balsam timber.
15.80	Top of Garrett Ridge, 235 ft. above the sec. cor., brs. N. 75° W. from S. 75° E., descend gradual N. slope along top of spur.
23.00	Leave timber, brs. E. and W., continue descent through medium dense growth of elder berry brush.
29.50	Trail, brs. N. and S. 20° E..
39.60	Spring, water piped 20 lks. N. into W. end of 60 ft. trough for watering stock, spring is commonly known as Mountain Lion Spring.
40.00	On gradual N. slope of spur top, 285 ft. below top of ridge
	Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground surrounded by a mound of stone to top of post, for the ¼ sec. cor., with brass cap mkd.

¼
S 10 | S 11
1934

from which

An aspen, 6 ins. in diam., brs. N. 51°30' E., 28 lks. dist., mkd. ¼ S 11 BT.

A Douglas fir, 30 ins. in diam., brs. N. 54°30' W., 77 lks. dist., mkd. ¼ S 10 BT.

Enter scattered aspen, Douglas fir, and balsam fir timber, brs. E. and W.

45.00	Leave top of spur, projects N. 20° E., leave aspen and enter dense growth of Douglas fir, balsam fir, and scattered limber pine, descend NW. slope.
80.00	On NW. slope, 640 ft. below the ¼ sec. cor.
	Set an iron post, 3 ft. long, 2 ins. diam., 28 ins. in the ground, for the cor. of secs. 2, 3, 10, and 11; with brass cap mkd.

Chains	
	T11S R5E S 3 | S 2 S10 | S11
	1934 from which
	A balsam fir, 18 ins. in diam., brs. N. 51°30' E., 46 lks. dist., mkd. T11S R5E S2 BT.
	A balsam fir, 10 ins. in diam., brs. S. 44° E., 58 lks. dist., mkd. T11 S R5E S11 BT.
	A balsam fir, 8 ins. in diam., brs. S. 78° W., 37 lks. dist., mkd. T11S R5E S10 BT.
	A balsam fir, 12 ins. in diam., brs. N. 54° W., 14 lks. dist., mkd. T11S R5E S3 BT.
	Land, mountainous, with steep slopes; exposure and drainage S. on S. ¼ mile and N. on N. ¾ of mile. Soil, rocky clay loam; 3rd rate. Timber, Douglas fir, balsam fir, aspen, and some limber pine. Undergrowth, chokecherry, elder berry, and sage brush; medium growth of grass and weeds. Fair grazing land.

	S. 89° 52' E., on random line, bet. secs. 2 and 11.
40.00	Set temp. ¼ sec. cor.
80.04	Intersect N. and S. line, 2 lks. S. of the cor. of secs. 1, 2, 11, and 12.
	Thence
	N. 89° 53' W., on true line, bet. secs. 2 and 11.
	Ascend along steep S. slope, over mountainous land, through dense growth of oak, service berry, mahogany, and manzanita brush.
4.10	Enter scattered balsam fir timber, brs. N. and S.
8.90	Slope changes from S. to SE., continue ascent.
16.00	Leave timber and oak, service berry, mahogany, and manzanita brush; continue ascent through dense chokecherry brush, brs. N. and S.
24.30	Top of ridge, 560 ft. above sec. cor., brs. N. 10° E. and S. 10° W., descend NW. slope, through scattered aspen, Douglas fir, and balsam fir timber; with medium dense growth of chokecherry, deer browse, and service berry brush.
29.40	Leave aspen timber, enter dense Douglas and balsam fir.
34.60	Leave chokecherry brush, brs. N. and S.
40.02	On NW. slope, 380 ft. below top of ridge
	Set an iron post, 3 ft. long, 1 in. diam., 30 ins. in the ground, for the ¼ sec. cor., with brass cap mkd.

Chains

S 2
¼
S11

1934

from which

A balsam fir, 10 ins. in diam., brs. N. 24° E., 21 lks dist., mkd. ¼ S 2 BT.

A balsam fir, 8 ins. in diam., brs. S. 53°30' E., 44 lks. dist., mkd. ¼ S 11 BT.

47.50 Enter scattered aspen timber.

50.90 Bottom of canyon, 390 ft. below the ¼ sec. cor., drains N ascend steep E. slope.

58.20 Timber becomes scattered, brs. N. and S.

68.50 Top of spur, 585 ft. above bottom of canyon, projects N. 12° E., descend NW. slope.

80.04 The cor. of secs. 2, 3, 10, and 11; 260 ft. below top of spur.

Land, mountainous, with steep slopes; general exposure an drainage N.
Soil, rocky clay loam, rich in humus; 3rd rate.
Timber, Douglas fir, balsam fir, and aspen.
Undergrowth, chokecherry, oak, service berry, deer browse and mahogany brush; medium growth of grass and weeds.
Fair grazing land.

N. 0° 01' W., bet. secs. 2 and 3.

Descend NW. slope, over mountainous land, through dense growth of balsam fir, Douglas fir, limber pine and scatte ed aspen timber, with deer browse and scattered maple undergrowth.

16.50 Bottom of canyon, 400 ft. below sec. cor., drains N. 35° E ascend SE. slope.

16.90 Trail, brs. N. 35° E. and S. 35° W., leave aspen timber and enter oak brush, brs. NE. and SW.

25.40 Top of ascent, 70 ft. above bottom of canyon, slopes E., descend NE. slope, reenter aspen timber.

30.60 Bottom of draw, 105 ft. below top of ascent, drains E., pine and fir timber becomes scattered, enter scattered mahogany and juniper, ascend S. slope.

40.00 On steep S. slope, 245 ft. above bottom of draw

Set an iron post, 3 ft. long, 1 in. diam., 30 ins. in the ground, for the ¼ sec. cor., with brass cap mkd.

¼
S 3 | S 2
1934

from which

A mahogany, 8 ins. in diam., brs. N. 45° E., 22 lks. dist., mkd. ¼ S 2 BT.

Chains	
	A mahogany, 6 ins. in diam., brs. S. 89°30' W., 40 lks. dist., mkd. ¼ S 3 BT.
42.80	Top of spur, 55 ft. above the ¼ sec. cor., projects S.60°E., descend along steep E. slope.
47.00	Top of spur, projects N. 40° E., continue descent over N. slope, enter medium dense growth of balsam fir, Douglas fir, limber pine, aspen, and maple, brs. with top of spur.
66.50	Bottom of draw, 590 ft. below top of spur, drains S. 70° E.; trail follows along bottom; ascend S. slope.
67.00	Leave timber, brs. E. and W., enter medium dense growth of oak, service berry, and mahogany brush.
67.35	On S. slope, 10 ft. above bottom of draw, intersect the second stan. par. S., at point of intersection

Set an iron post, 3 ft. long, 2 ins. diam., 27 ins. in the ground surrounded by a mound of stone to top of post, for the closing corner of secs. 2 and 3, with brass cap mkd.

T10S R5E

S35

S 3 | S 2

T11S R5E
CC
1934

From which

An aspen, 6 ins. in diam., brs. S. 69°45' E., 16 lks. dist., mkd. T11S R5E S2 CC BT.

An aspen, 5 ins. in diam., brs. S. 45°30' W., 24 lks. dist., mkd. T11S R5E S3 CC BT.

From point of intersection, the restored stan. ¼ sec. cor., S. bdy. sec. 35, T. 10 S., R. 5 E., heretofore described, brs. N. 89° 41' E., 7.645 chs. dist.

Land, mountainous, with steep slopes; general exposure and drainage NE.
Soil, rocky mountain loam; 3rd rate.
Timber, balsam fir, Douglas fir, limber pine, and aspen.
Undergrowth, deer browse, maple, oak, mahogany, and service berry brush; medium growth of grass and weeds.
Fair grazing land.

From the cor. of secs. 33 and 34, on S. bdy. of Tp., which is an iron post, 2 ins. in diam., extending 8 ins. above ground, firmly set, properly mkd. and witnessed as described in the official records,

N. 0° 02' W., bet. secs. 33 and 34.

Descend steep NW. slope, over mountainous land, through dense aspen timber.

3.80	Bottom of canyon, 110 ft. below sec. cor., stream of clear water, 2 lks. wide and 2 ins. deep, drains W.; aspen becomes scattered, enter scattered Douglas fir and dense undergrowth of chokecherry, scrub oak, and deer browse, ascend steep S. slope.

Chains	Bearings
14.00	Slope changes from S. to SE., continue ascent; leave oak brush, continue through dense growth of chokecherry and deer browse.
21.60	Top of spur, 510 ft. above bottom of canyon, projects S. 10° W., continue ascent along SW. slope.
25.20	Top of spur, projects N. 83° W., enter dense growth of aspen timber brs. E. and W., descend NW. slope.
31.10	Leave aspen and chokecherry, brs. E. and W.
36.80	Top of spur, 410 ft. above bottom of canyon, projects NW descend steep N. slope.
40.00	On steep N. slope, 105 ft. below top of spur

Set an iron post, 3 ft. long, 1 in. diam., 28 ins. in the ground, for the ¼ sec. cor., with brass cap mkd.

	¼	
S33	S34	
	1934	

from which

A Douglas fir, ~~10~~ ins. in diam., brs. S. 88° E., 17 li dist., mkd. ¼ S 34 BT.

A Douglas fir, 30 ins. in diam., brs. S. 77° W., 66 li dist., mkd. ¼ S 33 BT.

44.10	Slope changes from N. to NW., continue descent.
51.70	Bottom of gulch, 236 ft. below ¼ sec. cor., drains N. 60° W., ascend steep S. slope, enter medium growth of aspen.
54.00	Trail to Indianola, brs. E. and N. 60° W.
54.10	Leave aspen and deer browse, continue through dense oak brush and scattered fir timber, brs. E. and W.
60.10	Top of spur, 250 ft. above bottom of gulch, projects W., descend steep N. slope.
67.00	Bottom of draw, 210 ft. below top of spur, drains W., ascend S. slope.
69.50	Top of ascent, 100 ft. above bottom of draw, slopes W., continue along W. slope with no change in elevation.
74.55	Small seep, drains W.
75.35	Small seep, 40 lks. E. of line, drains W.
78.80	Bottom of canyon, drains S. 26° W. from N. 10° E., ascend SE. slope.
80.00	On SE. slope, 25 ft. above bottom of canyon

Set an iron post, 3 ft. long, 2 ins. diam., 27 ins. in the ground surrounded by a mound of stone to top of post, for the cor. of secs. 27, 28, 33, and 34; with brass cap mkd.

T11S R5E	
S28	S27
S33	S34
1934	

from which

Chains	
	An aspen, 9 ins. in diam., brs. N. 25°15' E., 8 lks. dist., mkd. T11S R5E S27 BT.
	An aspen, 8 ins. in diam., brs. S. 30° E., 64 lks. dist., mkd. T11S R5E S34 BT.
	An aspen, 7 ins. in diam., brs. S. 47°45' W., 35 lks. dist., mkd. T11S R5E S33 BT.
	A Douglas fir, 30 ins. in diam., brs. N. 21° W., 81 lks. dist., mkd. T11S R5E S28 BT.
	Land, mountainous, with steep slopes; general exposure and drainage W. Soil, rocky clay loam; 3rd rate. Timber, aspen, balsam fir, and Douglas fir. Undergrowth, oak, chokecherry and deer browse brush; medium growth of grass and weeds. Fair grazing land.
	East, on random line, bet. secs. 27 and 34.
40.00	Set temp. ¼ sec. cor.
79.98	Intersect N. and S. line, 5 lks. N. of the cor. of secs. 26, 27, 34, and 35.
	Thence
	N. 89° 58' W., on true line, bet. secs. 27 and 34.
	Ascend NE. slope, over mountainous land, through medium dense growth of balsam fir and aspen timber and deer browse undergrowth.
8.00	Leave timber, enter dense growth of sagebrush, brs. N. and S.
16.65	From this point, temporary flag established by the U.S. Forest Service, brs. N. 18°50' E., 2.25 chs. dist.
	Top of spur, 110 ft. above the sec. cor., projects S. from N., descend gradual W. slope.
22.60	Sagebrush becomes scattered, enter dense scrub chokecherry brush, descent becomes more abrupt, brs. N. and S.
34.80	Leave chokecherry brush, enter dense growth of aspen timber, brs. N. and S.
39.99	On W. slope, 350 ft. below top of spur
	Set an iron post, 3 ft. long, 1 in. diam., 28 ins. in the ground, for the ¼ sec. cor., with brass cap mkd.

$$\frac{1}{4}\ \frac{S\ 27}{S\ 34}$$

1934

from which

An aspen, 7 ins. in diam., brs. S. 43°30' E., 31 lks. dist., mkd. ¼ S 34 BT.

An aspen, 8 ins. in diam., brs. N. 32° W., 22 lks. dist., mkd. ¼ S 27 BT.

Chains	
41.70	From this point, small spring in head of North Ditch Fo Canyon, brs. N. 5°45' E., 9.30 chs. dist.
43.20	Bottom of North Ditch Fork Canyon, 60 ft. below the ¼ s cor., drains S., ascend steep E. slope.
43.40	Trail, brs. N. and S.; enter dense growth of chokecherr brush, timber becomes scattered, brs. with trail.
49.00	Graded road, brs. N. 15° E. and S. 15° W.
50.60	Top of divide between Fish Creek and Thistle Creek drai age, 160 ft. above bottom of canyon, brs. N. and S., descend SW. slope, through scattered balsam fir and asp timber with chokecherry and deer browse undergrowth.
61.00	Head of draw, 185 ft. below top of divide, drains S.20° ascend E. slope.
65.40	Top of spur, 35 ft. above bottom of draw, projects S.20 W., descend steep W. slope.
79.70	Bottom of canyon, 500 ft. below top of spur, drains S. 10° W. from N. 10° E., ascend E. slope.
79.98	The cor. of secs. 27, 28, 33, and 34; 10 ft. above bott of canyon.
	Land, mountainous, with steep slopes; general exposure and drainage S. Soil, rocky clay loam; 3rd rate. Timber, aspen, balsam fir and Douglas fir. Undergrowth, chokecherry, sage, deer browse, and oak bru medium growth of grass and weeds. Fair grazing land.

	N. 0° 02' W., bet. secs. 27 and 28.
	Ascend along SE. slope, over mountainous land, through medium dense growth of aspen and scattered Douglas fir timber, with dense undergrowth of deer browse and scatter ed chokecherry brush.
6.70	Leave aspen, chokecherry, and deer browse, enter dense short oak brush, brs. E. and W.
13.20	Top of spur, 285 ft. above sec. cor., projects S. 40° W. leave oak brush, enter scattered aspen and deer browse, descend steep NW. slope.
21.40	Bottom of small ravine, 95 ft. below top of spur, drains S. 80° W. approximately 2 chs. to junction with draw, ascend SW. slope.
24.30	Bottom of draw, 40 ft. above ravine, drains S. 30° W., leave deer browse, enter dense growth of chokecherry, ascend steep SE. slope.
32.10	Top of low spur, 275 ft. above bottom of draw, projects S. 35° W., continue ascent along SW. slope.
40.00	On top of ridge, brs. N. 70° W. and S. 60° E., 175 ft. above top of spur
	Set an iron post, 3 ft. long, 1 in. diam., 28 ins. in the ground for the ¼ sec. cor., with brass cap mkd.

Chains	
	$\frac{1}{4}$ S28 | S27 1934 from which
	An aspen, 7 ins. in diam., brs. N. 11° E., 117 lks. dist., mkd. $\frac{1}{4}$ S27 BT.
	A limber pine, 16 ins. in diam., brs. S. 86°30' W., 222 lks. dist., mkd. $\frac{1}{4}$ S28 BT.
40.15	Brown's Peak trail to Indianola, brs. N. 70° W. and S. 70° E., descend N. slope.
41.00	Enter dense growth of aspen timber and medium dense growth of deer browse undergrowth.
63.10	Bottom of ravine, 430 ft. below top of ridge, drains N. 20° E., continue descent along NE. slope.
71.80	Bottom of small ravine, 650 ft. below top of ridge, drains N. 70° E. approximately $3\frac{1}{2}$ chs. to junction with draw, ascend gradually along E. slope.
80.00	On E. slope, 30 ft. above bottom of ravine
	Set an iron post, 3 ft. long, 2 ins. diam., 28 ins. in the ground, for the cor. of secs. 21, 22, 27, and 28, with brass cap mkd.
	T11S R5E S21 | S22 S28 | S27 1934 from which
	An aspen, 6 ins. in diam., brs. N. 40°45' E., 31 lks. dist., mkd. T11S R5E S22 BT.
	An aspen, 4 ins. in diam., brs. S. 56°45' E., 20 lks. dist., mkd. T11S R5E S27 BT.
	An aspen, 8 ins. in diam., brs. S. 35° W., 15 lks. dist., mkd. T11S R5E S28 BT.
	An aspen, 14 ins. in diam., brs. N. 55° W., 9 lks. dist., mkd. T11S R5E S21 BT.
	Land, mountainous, with steep slopes; general exposure and drainage S. on S. half of mile, and N. on N. half of mile. Soil, rocky clay loam; 3rd rate. Timber, aspen, balsam fir, and Douglas fir, with some limber pine. Undergrowth, chokecherry, deer browse, and oak brush; medium growth of grass and weeds. Fair grazing land.
	S. 89° 58' E., on random line, bet. secs. 22 and 27.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
79.98	Intersect N. and S. line, 2 lks. N. of the cor. of secs. 22, 23, 26, and 27.

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chains

Thence

N. 89° 57' W., on true line, bet. secs. 22 and 27.

Descend steep SW. slope, over mountainous land, through dense growth of chokecherry brush and scattered aspen an balsam fir timber.

5.60 Leave timber, brs. N. and S.

9.70 Bottom of draw, 145 ft. below sec. cor., drains N. 50° W continue descent.

17.40 Bottom of canyon, 225 ft. below sec. cor., drains N. approximately 5 chs. thence NW.; stream of clear water i bottom of canyon, 3 lks. wide and 1 in. deep; enter medi dense growth of aspen timber, brs. with canyon bottom, ascend steep E. slope.

22.30 Leave aspen timber, brs. N. and S.

28.90 Slope changes from E. to NE., leave chokecherry brush, enter medium dense growth of aspen timber and elder berr brush, continue ascent.

35.20 Leave aspen timber and elder berry brush, brs. N. and S.

38.60 Top of spur, 470 ft. above bottom of canyon, brs. N.30° and S., thence over nearly level spur top.

39.99 On nearly level spur top, among widely scattered aspens

Set an iron post, 3 ft. long, 1 in. diam., 22 ins. in the ground to solid rock surrounded by a mound of stone to to of post, for the ¼ sec. cor., with brass cap mkd.

¼ S 22 / S 27

1934

from which

A limber pine, 12 ins. in diam., brs. N. 31°30' E., 75 lks. dist., mkd. ¼ S 22 BT.

An aspen, 10 ins. in diam., brs. S. 4° W., 216 lks. dist., mkd. ¼ S 27 BT.

From this point, spring, on spur top brs. S. 6°30' E., 7.00 chs. dist.

49.90 Leave scattered aspen timber, descend steep W. slope.

55.90 Wash, 15 lks. wide and 1 ft. deep, drs. N. 75° W., enter dense aspen timber and deer browse, brs. SE. and NW., continue descent.

62.10 Bottom of ravine, 440 ft. below top of ridge, drains NW. ascend gradually along N. slope.

66.50 Top of ascent, 150 ft. above bottom of ravine, slopes NW. descend steep NW. slope.

73.40 Bottom of canyon, 130 ft. below top of ascent, drains N. 20° E., ascend steep E. slope.

79.98 The cor. of secs. 21, 22, 27, and 28; 205 ft. above bottom of canyon.

Chains

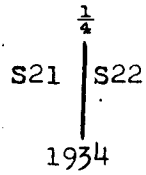
Land, mountainous, with steep slopes; general exposure and drainage N.
Soil, rocky clay loam; 3rd rate.
Timber, aspen, Douglas fir, and balsam fir.
Undergrowth, chokecherry, deer browse, and oak brush; medium growth of grass and weeds.
Fair grazing land.

N. 0° 02' W., bet. secs. 21 and 22.

Descend along steep E. slope, over mountainous land, through dense aspen and scattered balsam timber, and medium dense growth of chokecherry, deer browse, and maple brush.

40.00 On steep E. slope, 50 ft. below sec. cor.

Set an iron post, 3 ft. long, 1 in. diam., 28 ins. in the ground, for the ¼ sec. cor., with brass cap mkd.



from which

An aspen, 6 ins. in diam., brs. S. 40°45' E., 52 lks. dist., mkd. ¼ S 22 BT.

An aspen, 5 ins. in diam., brs. N. 42° W., 14 lks. dist., mkd. ¼ S 21 BT.

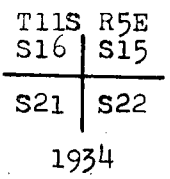
Aspen timber becomes scattered, maple and chokecherry more dense, enter scattered mountain laurel.

65.30 Slope changes from E. to N., leave chokecherry brush, descend steep N. slope.

78.90 Bottom of Lake Fork Canyon, 665 ft. below ¼ sec. cor., stream of clear water 10 lks. wide and 3 ins. deep, drains N. 80° W. from S. 80° E.; leave timber brs. with canyon bottom, enter medium dense growth of oak and service berry brush, ascend steep S. slope.

80.00 On steep S. slope, 30 ft. above bottom of canyon

Set an iron post, 3 ft. long, 2 ins. in diam., 25 ins. in the ground to solid rock surrounded by a mound of stone to top of post, for the cor. of secs. 15, 16, 21, and 22, with brass cap mkd.



from which

An aspen, 8 ins. in diam., brs. S. 20°45' E., 179 lks. dist., mkd. T11S R5E S22 BT.

An aspen, 10 ins. in diam., brs. S. 5°15' W., 168 lks. dist., mkd. T11S R5E S21 BT.

An aspen, 8 ins. in diam., brs. N. 83° W., 340 lks. dist., mkd. T11S R5E S16 BT.

U. S. GOVERNMENT PRINTING OFFICE: 1921 6—8155

Chains	
	No suitable bearing trees available in sec. 15.
	Land, mountainous, with steep and rolling slopes; general exposure and drainage NE. Soil, clay mountain loam, rich in humus; 3rd rate. Timber, aspen, balsam, and Douglas fir. Undergrowth, chokecherry, oak, deer browse, and maple; medium growth of grass and weeds. Fair grazing land.
	S.89° 57' E., on random line, bet. secs. 15 and 22.
40.00	Set temp. ¼ sec. cor.
79.94	Intersect N. and S. line, 7 lks. S. of the cor. of secs. 14, 15, 22, and 23.
	Thence
	West, on true line, bet. secs. 15 and 22.
	Ascend rolling SE. slope, over mountainous land, through scattered aspen, balsam, and Douglas fir timber, with medium dense growth of oak, chokecherry, sage, mountain laurel, and service berry brush.
21.40	Top of spur, 485 ft. above sec. cor., projects S. from N., leave timber, continue through dense undergrowth, descend steep W. slope.
22.91	From this point, a spring, located near the center of sec. 22 brs. S. 24° 55' W.; this is the same spring as that to which a bearing was given from the cor. of secs. 14, 15, 22, and 23.
25.40	Undergrowth becomes scattered, enter dense growth of aspen, brs. N. and S.
32.60	Leave aspen timber, brs. N. and S.
38.30	Enter dense growth of aspen timber, brs. N. and S.
39.97	On steep W. slope, 410 ft. below top of spur
	Set an iron post, 3 ft. long, 1 in. diam., 28 ins. in the ground, for the ¼ sec. cor., with brass cap mkd. ¼ S 15 / S 22 1934 from which An aspen, 6 ins. in diam., brs. N. 49°30' E., 18 lks. dist., mkd. ¼ S 15 BT. An aspen, 6 ins. in diam., brs. S. 18° W., 24 lks. dist., mkd. ¼ S 22 BT.
51.90	Bottom of canyon, 385 ft. below the ¼ sec. cor., small stream of clear water, drains S. from N., leave aspen timber, enter dense oak brush, brs. with canyon bottom, ascend steep E. slope.

Chains	
60.50	Top of rocky spur, 285 ft. above bottom of canyon, projects S., descend steep SW. slope.
72.70	Bottom of draw, 355 ft. below top of spur, drains S., enter medium dense growth of service berry and scattered aspen; continue descent along S. slope.
79.94	The cor. of secs. 15, 16, 21, and 22; 455 ft. below top of spur.
	Land, mountainous, with steep slopes; general exposure and drainage S. Soil, rocky clay loam; 3rd rate. Timber, aspen, balsam fir, and Douglas fir. Undergrowth, oak, service berry, chokecherry, and deer browse brush; medium growth of grass and weeds. Fair grazing land.

N. 0° 02' W., bet. secs. 15 and 16.

Ascend steep S. slope, over mountainous land, through medium dense growth of service berry, oak, and chokecherry brush with scattered aspen timber.

22.70 Top of spur, 675 ft. above sec. cor., projects S. 45° W., leave chokecherry, service berry, and oak brush, enter dense growth of aspen timber, brs. with top of spur, descend along W. slope.

33.00 Slope changes from W. to NW., continue descent.

40.00 On steep NW. slope, 180 ft. below top of spur

Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground surrounded by a mound of stone to top of post, for the ¼ sec. cor., with brass cap mkd.

¼
S16 | S15
1934

from which

An aspen, 8 ins. in diam., brs. N. 23° E., 24 lks. dist., mkd. ¼ S 15 BT.

An aspen, 9 ins. in diam., brs. S. 45°30' W., 32 lks. dist., mkd. ¼ S 16 BT.

45.90 Bottom of draw, 130 ft. below ¼ sec. cor., drains S. 70° W., ascend steep S. slope.

67.00 Enter dense growth of balsam and Douglas fir timber, aspen becomes widely scattered.

68.70 Top of spur, 615 ft. above bottom of draw, projects S. 70° W. from N. 70° E., trail follows along top of spur, descend steep NW. slope.

80.00 On NW. slope, 235 ft. below top of spur

Set an iron post, 3 ft. long, 2 ins. diam., 30 ins. in the ground for the cor. of secs. 9, 10, 15, and 16, with brass cap mkd.

U. S. GOVERNMENT PRINTING OFFICE: 1921 6—3155

Chains	
	T11S R5E S 9 | S10 S16 | S15 1934 from which
	A Douglas fir, 30 ins. in diam., brs. N. 19°15' E., 61 lks. dist., mkd. T11S R5E S10 BT.
	A balsam fir, 14 ins. in diam., brs. S. 85°30' E., 49 lks. dist., mkd. T11S R5E S15 BT.
	A balsam fir, 6 ins. in diam., brs. S. 55° W., 9 lks. dist., mkd. T11S R5E S16 BT.
	A Douglas fir, 10 ins. in diam., brs. N. 36° W., 65 lks dist., mkd. T11S R5E S9 BT.
	Land, mountainous, with steep slopes; general exposure and drainage SW. Soil, rocky clay loam; 3rd rate. Timber, aspen, Douglas fir, and balsam fir. Undergrowth, service berry, oak, chokecherry, and deer browse brush; medium growth of grass and weeds. Fair grazing land.
	East, on random line, bet. secs. 10 and 15.
40.00	Set temp. ¼ sec. cor.
80.08	Intersect N. and S. line, 14 lks. N. of the cor. of secs. 10, 11, 14, and 15.
	Thence
	N. 89° 54' W., on true line, bet. secs. 10 and 15.
	Descend along SW. slope, over mountainous land, through dense chokecherry and medium dense growth of oak brush with scattered aspen timber.
7.40	S. end of steel trough, 60 ft. long, for watering livestock small spring brs. N., 1.30 chs. dist.
8.10	Bottom of draw, 100 ft. below sec. cor., drains S. 30° W., continue descent along S. slope.
13.20	Slope changes from S. to SW., continue descent.
23.20	Bottom of draw, 190 ft. below sec. cor., drains S. 15° E., ascend E. slope.
25.10	Leave aspen timber, brs. N. and S.
37.60	Top of ascent, 325 ft. above bottom of draw, projects S., descend along S. slope of ridge top, enter scattered balsam fir, Douglas fir, and aspen timber, brs. N. and S.
40.04	On S. slope of ridge top, 15 ft. below top of ascent
	Set an iron post, 3 ft. long, 1 in. diam., 30 ins. in the ground, for the ¼ sec. cor., with brass cap mkd.
	¼ S 10 / S 15
	1934 from which

Chains	
	A limber pine, 12 ins. in diam., brs. S. 87° E., 47 lks. dist., mkd. ¼ S15 BT.
	A balsam fir, 12 ins. in diam., brs. N. 76°45' W., 101 lks. dist., mkd. ¼ S10 BT.
46.40	Top of spur, 25 ft. below the ¼ sec. cor., projects S. 42° W. from N. 56° E.; trail follows along top of spur; leave chokecherry and oak brush, enter dense growth of balsam and Douglas fir timber, brs. with top of spur; descend steep NW. slope.
80.08	The cor. of secs. 9, 10, 15, and 16; 520 ft. below top of spur.
	Land, mountainous, with steep slopes; general drainage and exposure SW. Soil, rocky clay loam; 3rd rate. Timber, balsam, Douglas fir, aspen, and some limber pine. Undergrowth, chokecherry, oak, and deer browse brush; medium growth of grass and weeds. Fair grazing land.
	N. 0° 02' W., bet. secs. 9 and 10.
	Descend steep NW. slope, over mountainous land, through dense growth of Douglas fir, balsam, and scattered aspen and maples.
10.30	Bottom of draw, 260 ft. below sec. cor., drains S. 70° W.; timber becomes scattered, enter dense growth of chokecherry and oak brush; ascend steep S. slope.
17.80	Slope changes from S. to SW., continue ascent.
22.70	Timber becomes dense and undergrowth scattered, brs. N. and S.
26.50	Top of ridge, 410 ft. above bottom of draw, brs. N. 60° W. and S. 60° E.; trail follows along ridge top; balsam and Douglas fir becomes scattered and aspen dense; descend steep NE. slope.
40.00	On steep NE. slope, 415 ft. below top of ridge
	Set an iron post, 3 ft. long, 1 in. diam., 25 ins. in the ground to solid rock, and surrounded by a mound of stone to top, for the ¼ sec. cor., with brass cap mkd.
	¼ S 9 | S 10 1934
	from which
	A balsam fir, 6 ins. in diam., brs. N. 50° 30' E., 88 lks. dist., mkd. ¼ S 10 BT.
	A balsam fir, 7 ins. in diam., brs. S. 74° 15' W., 47 lks. dist., mkd. ¼ S 9 BT.
47.90	Small spring, 15 lks. W. of line, drains NE.; descent becomes more gradual.
61.10	Small spring, 50 lks. E. of line, drains N. 30° E., aspen, balsam and Douglas fir timber becomes scattered, maples

Chains

become dense; continue gradual descent.

66.10 Trail, brs. NE. and SW.

69.10 Maples become scattered, aspen and balsam timber become dense, brs. E. and W.; slope changes from gradual NE. to abrupt N. slope, continue descent.

76.40 Bottom of Side Canyon, 625 ft. below ¼ sec. cor., drains N. 70° W. from S. 70° E.; old logging road follows along S. side of canyon bottom; leave timber, enter dense growth of oak brush, brs. with canyon bottom; ascend steep S. slo

80.00 On steep S. slope, 110 ft. above bottom of Side Canyon, in dense growth of oak brush,

Set an iron post, 3 ft. long, 2 ins. diam., 30 ins. in the ground, for the cor. of secs. 3, 4, 9, and 10, with brass cap mkd.

T11S R5E

S 4	S 3
S 9	S 10

1934

from which

A juniper, 12 ins. in diam., brs. S. 10° 30' W., 220 lks. dist., mkd. T11S R5E S9 BT.

A balsam fir, 28 ins. in diam., brs. N. 51° W., 152 lks. dist., mkd: T11S R5E S4 BT.

No suitable bearing trees available in secs. 3 and 10; raise a mound of stone, 3 ft. base, 2½ ft. high, W. of cor.

Land, mountainous, with steep slopes; exposure and drainage S. on S. ¼ of mile and NE. on N. ¾ of mile.
Soil, rocky clay loam; 3rd rate.
Timber, aspen, balsam, Douglas fir, and a few juniper.
Undergrowth, oak, maple, chokecherry, and service berry brush; medium growth of grass and weeds.
Fair grazing land.

S. 89° 54' E., on random line, bet. secs. 3 and 10.

40.00 Set temp. ¼ sec. cor.

80.06 Intersect N. and S. line, 5 lks. N. of the cor. of secs. 2, 3, 10, and 11.

Thence

N. 89° 52' W., on true line, bet. secs. 3 and 10.

Descend NW. slope, over mountainous land, through dense balsam and Douglas fir timber and deer browse undergrowth.

7.10 Bottom of canyon, 210 ft. below sec. cor., drains N. 10° E. enter medium growth of chokecherry and maple brush; ascend steep E. slope.

15.10 Slope changes from E. to NE., continue ascent.

23.40 Chokecherry becomes dense, brs. N. and S.

27.70 Trail, brs. NW. and SE.

Chains	
27.90	Top of ridge, 650 ft. above bottom of canyon, brs. N. 10° W. from S. 10° E., descend steep W. slope.
36.50	Enter bottom of small draw, drains W. from SE., continue descent.
40.03	In bottom of small draw, draining W., 460 ft. below top of ridge Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground surrounded by a mound of stone to top of post, for the ¼ sec. cor., with brass cap mkd. ¼ S 3 / S 10 1934 from which A Douglas fir, 14 ins. in diam., brs. S. 1°30' E., 32 lks. dist., mkd. ¼ S 10 BT. A Douglas fir, 12 ins. in diam., brs. N. 21°45' W., 20 lks. dist., mkd. ¼ S 3 BT.
41.80	Leave bottom of draw, drains NW., timber becomes scattered, continue descent along NW. slope.
49.90	Enter scattered aspen and maple, brs. N. and S.
51.10	Bottom of draw, 285 ft. below the ¼ sec. cor., drains SW., small seep in bottom of draw brs. N. 45° E., 50 lks. dist., leave aspen, ascend along gradual SE. slope, through scattered oak, service berry, maple, and balsam.
52.40	Trail, brs. S. 48° W. from N. 55° E.
57.60	Top of spur, 55 ft. above bottom of draw, projects S. 50° W., enter scattered chokecherry brush, descend W. slope.
62.30	Bottom of draw, 125 ft. below top of spur, drains SW., ascend E. slope, enter scattered juniper timber.
66.40	Top of ascent, 55 ft. above bottom of draw, slopes S., descend gradually along S. slope.
80.06	The cor. of secs. 3, 4, 9, and 10; 125 ft. below top of ascent. Land, mountainous, with steep slopes; exposure and drainage N. on E. side of ridge and SW. on remainder of mile. Soil, rocky clay loam; 3rd rate. Timber, Douglas fir, balsam, aspen and juniper. Undergrowth, oak, service berry, chokecherry, and deer browse, with some maple brush; medium growth of grass and weeds. Fair grazing land.

N. 0° 02' W., bet. secs. 3 and 4.

Ascend S. slope, over mountainous land, through dense growth of oak and scattered service berry, chokecherry, and maple brush.

5.80	Slope changes from S. to SW., continue ascent.
7.40	Top of ascent, 110 ft. above sec. cor., slopes W., descend

Chains

NW. slope, maple brush becomes dense.

19.00 Bottom of canyon, 240 ft. below top of ascent, drains S. 60° W., trail follows along N. side of bottom, ascend steep SE. slope, maple becomes scattered and oak becomes dense.

40.00 On SE. slope, 570 ft. above bottom of canyon

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

¼
S 4 | S 3
1934

raise a mound of stone, 3 ft. base, 3 ft. high, W. of cor., no suitable bearing trees available.

42.60 Top of spur, 50 ft. above the ¼ sec. cor., projects W. from N. 80° E.; leave undergrowth, enter medium dense growth of Douglas and balsam fir timber, descend N. slope.

47.60 Slope changes from N. to NW., timber becomes scattered, enter medium dense growth of mountain laurel, continue descent.

54.90 Leave balsam and Douglas fir, enter dense growth of aspen timber, brs. E. and W.

61.30 Bottom of canyon, 450 ft. below top of spur, drains W., leave aspen timber, brs. E. and W., enter medium dense growth of oak, service berry, and mahogany brush, ascend S. slope.

66.86 On S. slope, 160 ft. above bottom of canyon, intersect the second stan. par. S., at point of intersection

Set an iron post, 3 ft. long, 2 ins. diam., 22 ins. in the ground to solid rock, with sandstone, 3x7x8 ins., mkd. X, deposited at the base, and in a mound of stone to top of post, for the closing cor. of secs. 3 and 4, with brass cap mkd.

T10S R5E
S34

S 4 | S 3
T11S R5E
CC
1934

No other suitable cor. accessories available.

From point of intersection, the restored stan. ¼ sec. cor., S. bdy. sec. 34, T. 10 S., R. 5 E., heretofore described, brs. N. 89° 57' E., 8.73 chs. dist.

Land, mountainous, with steep slopes; general exposure and drainage SW.
Soil, rocky clay loam; 3rd rate.
Timber, balsam, Douglas fir, and aspen.
Undergrowth, oak, service berry, maple, mountain laurel, and mahogany brush; medium growth of grass and weeds.
Fair grazing land.

Chains	
	From the cor. of secs. 32 and 33, on the S. bdy. of the Tp., which is an iron post, 2 ins. diam., extending 9 ins. above ground, firmly set, properly mkd. and witnessed as described in the official record.
	N. 0° 03' W., bet. secs. 32 and 33.
	Descend along steep NW. slope, over mountainous land, through dense small aspen, deer browse, and scattered maples.
5.40	Leave aspen timber, enter dense maple and chokecherry brush, brs. E. and W.
7.50	Small ravine, drains N. 60° W.; continue descent along steep W. slope.
18.90	Slope changes from W. to N., continue descent through dense deer browse, scattered chokecherry and gooseberry brush.
25.50	Enter dense small aspen timber, brs. E. and W.
29.10	Bottom of Lucy Fork Canyon, 1 chain wide, 585 ft. below sec. cor., stream of clear water, 4 lks. wide and 3 ins. deep, course W.; ascend S. slope.
29.80	Trail to Indianola, brs. E. and W.; leave timber, enter dense growth of oak, and scattered service berry and chokecherry brush, brs. E. and W.
37.80	Slope changes from S. to SW., continue ascent.
40.00	On SW. slope, 315 ft. above bottom of canyon
	Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, with a sandstone, 4x6x8 ins., mkd. X deposited at the base, and in a mound of stone to top, for the $\frac{1}{4}$ sec. cor., with brass cap mkd.
	$\frac{1}{4}$ S 32 | S 33 1934
	No other suitable cor. accessories available.
60.20	Slope changes from SW. to W., continue ascent.
65.20	From this point, a corral brs. N. 51° 30' W., approximately 15 chs. dist.
	Top of sandstone outcropping, 15 ft. high and 50 lks. wide, projects W. of line approximately 20 lks.
69.90	Top of ascent, 450 ft. above the $\frac{1}{4}$ sec. cor.; oak brush becomes scattered, enter dense growth of manzanita brush; descend along W. slope.
72.50	Leave oak, enter medium dense growth of small aspen timber, brs. E. and W.
80.00	On W. slope, 70 ft. below top of ascent
	Set an iron post, 3 ft. long, 2 ins. diam., 28 ins. in the ground, for the cor. of secs. 28, 29, 32, and 33, with brass cap mkd.

U. S. GOVERNMENT PRINTING OFFICE: 1931 6—8155

Chains

T11S	R5E
S 29	S 28
S 32	S 33

1934

from which

An aspen, 6 ins. in diam., brs. N. 80° 45' E., 17 lks. dist., mkd. T11S R5E S28 BT.

A maple, 5 ins. in diam., brs. S. 41° 30' E., 61 lks. dist., mkd. T11S R5E S33 BT.

An aspen, 6 ins. in diam., brs. S. 12° 30' W., 37 lks. dist., mkd. T11S R5E S32 BT.

An aspen, 5 ins. in diam., brs. N. 22° W., 30 lks. dist., mkd. T11S R5E S29 BT.

Land, mountainous, with steep slopes; exposure and drainag NW. and SW. into Lucy Fork Canyon.
Soil, rocky clay loam; 3rd rate.
Timber, aspen.
Undergrowth, oak, deer browse, maple, manzanita, choke-cherry, and service berry brush; medium growth of grass and weeds.
Fair grazing land.

East, on random line, bet. secs. 28 and 33.

40.00 Set temp. ¼ sec. cor.

70.94 Intersect N. and S. line, 9 lks. N. of the cor. of secs. 27, 28, 33, and 34.

Thence

N. 89° 56' W., on true line, bet. secs. 28 and 33.

Ascend steep E. slope, over mountainous land, through medium dense growth of aspen and balsam timber, with medium growth of chokecherry, maple, and oak brush.

[illegible].10 Top of spur, 220 ft. above the sec. cor., projects S. 30° W.; timber becomes scattered; descend W. slope.

22.60 Bottom of canyon, 425 ft. below top of spur, stream of clear water, 2 lks. wide and 1 in. deep, drains S. 20° W. from N. 20° E.; ascend steep E. slope.

25.50 Slope changes from E. to SE.; enter dense aspen and scattered balsam timber, brs. SE. and NW.; continue ascent.

33.30 Bottom of draw, drains S. 60° E.; continue ascent over NE. slope.

39.97 On NE. slope, 475 ft. above bottom of canyon

Set an iron post, 3 ft. long, 1 in. diam., 24 ins. in the ground to solid rock, and in a mound of stone to top, for the ¼ sec. cor., with brass cap mkd.

¼ S 28 / S 33

1934

from which

Chains	
	A Douglas fir, 22 ins. in diam., brs. S. 56° 30' W., 70 lks. dist., mkd. ¼ S33 BT.
	A balsam fir, 4 ins. in diam., brs. N. 87° 30' W., 76 lks. dist., mkd. ¼ S28 BT.
41.00	Top of spur, 10 ft. above the ¼ sec. cor., projects S., thence along top of spur projecting W.
44.40	Top of ascent, 25 ft. above the ¼ sec. cor., leave top of spur, projects S. 50° W.; leave aspen and maple, chokecherry becomes scattered; descend NW. slope.
62.50	Bottom of draw, 540 ft. below top of spur, drains S.; ascend steep E. slope; enter scattered aspen timber and oak brush.
75.00	Top of spur, 380 ft. above bottom of draw, projects S.; descend steep W. slope.
79.94	The cor. of secs. 28, 29, 32, and 33; 135 ft. below top of spur,
	Land, mountainous, with steep slopes; general drainage and exposure S. into Lucy Fork Canyon. Soil, rocky clay mountain loam; 3rd rate. Timber, aspen, balsam, and Douglas fir. Undergrowth, chokecherry, oak, and maple brush; medium growth of grass and weeds. Fair grazing land.

N. 0° 03' W., bet. secs. 28 and 29.

Ascend along W. slope, over mountainous land, through medium dense growth of aspen timber and chokecherry deer browse undergrowth.

8.80	Leave aspen timber, continue through dense short chokecherry brush, brs. E. and W.
15.60	Enter dense growth of small aspen timber, brs. E. and W.; slope changes from W. to SW., continue ascent.
18.60	Leave aspen timber, brs. E. and W.
28.20	Top of spur, 475 ft. above sec. cor., projects S. 10° E.; ascend gradually along SE. slope.
38.10	Top of ridge, 555 ft. above sec. cor., brs. N. 33° E. and S. 10° W.; Brown's Peak trail to Indianola follows along top of ridge; descend NW. slope.
40.00	On NW. slope, 5 ft. below top of ridge

Set an iron post, 3 ft. long, 1 in. diam., 24 ins. in the ground and in a mound of stone to top, for the ¼ sec. cor., with brass cap mkd.

¼

S 29 | S 28

1934

from which

An aspen, 7 ins. in diam., brs. N. 43° E., 49 lks. dist., mkd. ¼ S28 BT.

An aspen, 6 ins. in diam., brs. N. 76° W., 12 lks. dist., mkd. ¼ S29 BT.

U. S. GOVERNMENT PRINTING OFFICE 1921 6—8105

Chains	
	From this point, U.S. Coast and Geodetic Survey triangul ation station, the Indianola Station, latitude 39°49'40. N., and longitude 111° 23' 37.411" W., which is a brass tablet seated in sandstone, with 2 reference points, loc ed on Brown's Peak, brs. S. 58° 53' W., approximately 65 chs. dist.
	Enter medium dense growth of aspen timber and deer brows brs. NE. and SW.
47.50	Head of canyon, 55 ft. below the ¼ sec. cor., drains S. 60° W.; ascend SW. slope.
57.00	Leave aspen timber, brs. E. and W.
59.20	Top of spur, 190 ft. above head of canyon, forks and pro jects S. 64° W. and N. 72° W., from N. 80° E.; descend NW. slope.
64.50	Enter medium dense growth of aspen timber, brs. E. and W
76.00	Head of draw, 125 ft. below top of spur, drains W.; leav aspen timber; ascend SW. slope, enter dense short choke cherry and oak brush, brs. E. and W.
80.00	On SW. slope, 45 ft. above head of draw
	Set an iron post, 3 ft. long, 2 ins. diam., 26 ins. in t ground and in a mound of stone to top, with a sandstone, 3x7x8 ins., mkd. X, at base of post, for the cor. of sec 20, 21, 28, and 29, with brass cap mkd.

T11S	R5E
S 20	S 21
S 29	S 28

1934

from which

A balsam fir, 4 ins. in diam., brs. N. 86° 45' E., 341 lks. dist., mkd. T11S R5E S21 BT.

No other suitable bearing trees available.

From this cor., the Indianola U.S. Coast and Geodetic Survey triangulation Station, heretofore described, brs. S. 37° 42' W., approximately 95 chs. dist.

Land, mountainous, with steep slopes; general drainage an exposure W.
Soil, rocky clay loam; 3rd rate.
Timber, aspen and balsam fir.
Undergrowth, chokecherry, oak, deer browse, service berry and sagebrush; medium growth of grass and weeds.
Fair grazing land.

S. 89° 56' E., on random line, bet. secs. 21 and 28.

40.00 Set temp. ¼ sec. cor.

79.92 Intersect N. and S. line, 9 lks. S. of the cor. of secs. 21, 22, 27, and 28.

Thence

West, on true line, bet. secs. 21 and 28.

Ascend steep E. slope, over mountainous land, through dense growth of aspen, balsam, and Douglas fir, and tall chokecherry undergrowth.

8.80 Top of spur, 155 ft. above sec. cor., projects N. 10° E.; trail follows along top; leave timber, brs. with top of spur; descend steep W. slope through dense growth of chok cherry brush.

Chains	
16.50	Enter medium dense growth of aspen with scattered balsam fir and Douglas fir timber and maple undergrowth, chokecherry becomes scattered, brs. N. 20° E. and S. 20° W.
30.70	Bottom of large draw, 510 ft. below top of spur, stream of clear water, 2 lks. wide, 1 in. deep, drains N. 25° E. from S. 40° W., ascend SE. slope.
36.20	Timber becomes scattered, enter medium dense growth of oak brush, brs. N. and S.
39.96	On steep SE. slope, 270 ft. above bottom of draw
	Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground, for the ¼ sec. cor., with brass cap mkd.
	¼ S 21 / S 28
	1934 from which
	A balsam fir, 12 ins. in diam., brs. S. 40°30' W., 78 lks. dist., mkd. ¼ S28 BT.
	An aspen, 6 ins. in diam., brs. N. 26°45' W., 158 lks. dist., mkd. ¼ S21 BT.
41.40	Leave oak brush, enter dense small aspen timber, brs. N. 20° E. and S. 20° W.
44.80	Leave aspen timber, enter dense growth of chokecherry brush, brs. NE. and SW.
50.70	Slope changes from SE. to E., continue ascent.
63.00	Leave chokecherry, enter medium dense growth of sagebrush and deer browse.
74.60	Top of Jones' Ridge, 475 ft. above the ¼ sec. cor., brs. N. 20° W. and S. 5° E., enter medium dense growth of short chokecherry brush.
76.40	Trail, brs. NW. and SE.
79.92	The cor. of secs. 20, 21, 28, and 29; 95 ft. below top of ridge.
	Land, mountainous, with steep slopes; general exposure and drainage NE. Soil, rocky clay mountain loam; 3rd rate. Timber, aspen, balsam fir, and Douglas fir. Undergrowth, chokecherry, deer browse, oak, maple, and sage brush; medium growth of grass and weeds. Fair grazing land.
	N. 0° 03' W., bet. secs. 20 and 21.
	Ascend along SW. slope, over mountainous land, through dense growth of short chokecherry, deer browse, and scattered sage brush.
4.20	Trail, brs. NW. and SE., leave chokecherry, enter medium dense growth of sagebrush.
6.60	Top of Jones' Ridge, 50 ft. above sec. cor., brs. N. 85° W. and S. 70° E., leave sagebrush, enter medium dense growth

Chains	
	of chokecherry brush, descend steep N. slope.
9.20	Enter medium dense growth of balsam fir timber, brs. N. W. and S. 60° E.
11.30	Leave fir timber, enter dense aspen timber and deer brow brush, brs. E. and W.
22.20	Bottom of ravine, 625 ft. below top of ridge, drains N. 30° W. approximately 1 chain, thence N., from S. 15° descend along NW. slope.
27.80	Bottom of same ravine, drains NE. approximately 75 lks. t junction with draw, continue descent along NW. slope.
30.80	Bottom of draw, 725 ft. below top of ridge, drains N. 30° W., fir timber becomes scattered, enter medium dense growth of small aspen timber, brs. SE. and NW.; ascend SW slope.
37.80	Top of ascent, 40 ft. above bottom of draw, descend gradu ly along W. slope.
40.00	On W. slope, 40 ft. above bottom of draw
	Set an iron post, 3 ft. long, 1 in. diam., 29 ins. in the ground, for the ¼ sec. cor., with brass cap mkd.

¼
S20 | S21
1934

from which

An aspen, 4 ins. in diam., brs. N. 52° E., 11 lks. dist., mkd. ¼ S21 BT.

A maple, 5 ins. in diam., brs. N. 62° W., 45 lks. dist., mkd. ¼ S20 BT.

48.80	Enter dense growth of aspen and maples, brs. E. and W.
59.60	Bottom of ravine, drains N. 60° W., aspen becomes scatter-ed, continue descent along W. slope.
80.00	On steep W. slope, 380 ft. below the ¼ sec. cor.
	Set an iron post, 3 ft. long, 2 ins. diam., 30 ins. in the ground, for the cor. of secs. 16, 17, 20, and 21, with brass cap mkd.

T11S R5E
S17 | S16
S20 | S21
1934

from which

An aspen, 5 ins. in diam., brs. N. 58° E., 34 lks. dist., mkd. T11S R5E S16 BT.

A maple, 6 ins. in diam., brs. S. 44° E., 52 lks. dist., mkd. T11S R5E S21 BT.

A maple, 5 ins. in diam., brs. S. 19° W., 21 lks. dist., mkd. T11S R5E S20 BT.

A Douglas fir, 24 ins. in diam., brs. N. 48° W., 69 lks. dist., mkd. T11S R5E S17 BT.

Chains	
	Land, mountainous, with steep slopes; NW. exposure and drainage. Soil, rocky clay loam; 3rd rate. Timber, aspen, balsam fir, and Douglas fir. Undergrowth, chokecherry, maple, deer browse, and sagebrush; medium growth of grass and weeds. Fair grazing land.
	East, on random line, bet. secs. 16 and 21.
40.00	Set temp. ¼ sec. cor.
79.96	Intersect N. and S. line, 14 lks. N. of the cor. of secs. 15, 16, 21, and 22.
	Thence
	N. 89° 54' W., on true line, bet. secs. 16 and 21.
	Descend along S. slope, over mountainous land, through dense growth of chokecherry and willow brush.
3.20	Bottom of Lake Fork Canyon, 40 ft. below sec. cor., stream of clear water, 10 lks. wide and 3 ins. deep, drains N. 65° W. from S. 80° E., chokecherry becomes scattered, enter dense aspen and scattered maples, brs. with canyon bottom; ascend along rolling N. slope.
13.60	Top of ascent, 15 ft. above bottom of canyon, slopes N., descend W. slope.
16.00	Bottom of draw, 20 ft. below top of ascent, stream of clear water, 5 lks. wide and 2 ins. deep, drains N. approximately 4 chs. dist. to junction with Lake Fork Canyon, aspen becomes scattered, ascend NE. slope.
33.20	Leave willows, aspen and maples become medium dense, enter scattered Douglas fir and balsam fir timber.
39.98	On NE. slope, 335 ft. above bottom of draw
	Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground, for the ¼ sec. cor., with brass cap mkd. ¼ S 16 / S 21 1934 from which
	A Douglas fir, 14 ins. in diam., brs. N. 25°45' E., 27 lks. dist., mkd. ¼ S16 BT.
	A maple, 6 ins. in diam., brs. S. 38°15' E., 54 lks. dist., mkd. ¼ S21 BT.
52.20	Top of ascent, 130 ft. above the ¼ sec. cor., projects N., descend NW. slope.
63.50	Bottom of draw, 200 ft. below top of ascent, drains N., ascend steep SE. slope.
70.70	Top of spur, 120 ft. above bottom of draw, projects N., descend steep NW. slope.
79.96	The cor. of secs. 16, 17, 20, and 21; 150 ft. below top of spur.

U. S. GOVERNMENT PRINTING OFFICE: 1931 6—8155

Chains

Land, mountainous, with steep slopes; general exposure and drainage, N. into Lake Fork Canyon.
Soil, rocky clay loam, rich in humus; 3rd rate.
Timber, aspen, balsam fir, and Douglas fir.
Undergrowth, chokecherry, maple, willow, and deer browse brush; medium growth of grass and weeds.
Fair grazing land.

N. 0° 03' W., bet. secs. 16 and 17.

Descend along NW. slope, over mountainous land, through scattered aspen and balsam fir timber with dense growth of maple and scattered service berry and wild rose brush.

27.30 Top of spur, 300 ft. below sec. cor., projects N. 20° W., continue descent over NE. slope.

33.20 Bottom of Lake Fork Canyon, 500 ft. below sec. cor., stream of clear water, 15 lks. wide and 2 ins. deep, drains N. 60° W., from S. 60° E.; leave aspen, balsam and maple, enter dense oak brush, brs. with canyon bottom, ascend steep SW. slope.

40.00 On steep SW. slope, 115 ft. above bottom of Lake Fork Canyon,

Set an iron post, 3 ft. long, 1 in. diam., 22 ins. in the ground to solid rock and in a mound of stone to top of post, for the ¼ sec. cor., with brass cap mkd.

S17	S16
1934	

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

No suitable bearing trees available.

65.80 Top of spur, 535 ft. above ¼ sec, cor., projects S. 70° W., descend along steep W. slope, enter dense mountain laurel, brs. with top of spur.

76.00 Enter dense growth of scrub aspen, brs. NE. and SW.

78.80 Bottom of draw, 170 ft. below top of spur, drains S. 50° W. from N. 50° E., ascend SW. slope.

80.00 On SW. slope, 10 ft. above bottom of draw

Set an iron post, 3 ft. long, 2 ins. diam., 30 ins. in the ground, for the cor. of secs. 8, 9, 16, and 17, with brass cap mkd.

T11S R5E

S 8	S 9
S17	S16
1934	

from which

An aspen, 6 ins. in diam., brs. N. 64°30' E., 29 lks. dist., mkd. T11S R5E S9 BT.

Chains	
	An aspen, 6 ins. in diam., brs. S. 29°30' E., 23 lks. dist., mkd. T11S R5E S16 BT.
	An aspen, 5 ins. in diam., brs. S. 44° W., 46 lks. dist., mkd. T11S R5E S17 BT.
	An aspen, 6 ins. in diam., brs. N. 43° W., 15 lks. dist., mkd. T11S R5E S8 BT.
	Land, mountainous, with steep slopes; exposure and drainage NW. on S. half of mile, and SW. on N. half of mile. Soil, rocky clay loam; 3rd rate. Timber, aspen, balsam fir, and Douglas fir. Undergrowth, oak, maple, chokecherry, service berry, and wild rose brush; medium growth of grass and weeds. Fair grazing land.

	S. 89° 54' E., on random line, bet. secs. 9 and 16.
40.00	Set temp. ¼ sec. cor.
79.86	Intersect N. and S. line, 5 lks. S. of the cor. of secs. 9, 10, 15, and 16.
	~~Thence~~
	N. 89° 56' W., on true line, bet. secs. 9 and 16.
	Descend steep NW. slope, over mountainous land, through dense growth of balsam fir, Douglas fir, and scattered aspen timber.
11.30	Balsam and Douglas fir timber becomes scattered, enter dense growth of aspen timber, brs. NE. and SW.
26.40	Bottom of canyon, 510 ft. below sec. cor., course S. 40° W., leave timber, brs. with canyon bottom, enter dense oak brush, ascend SE. slope.
36.90	Bottom of small draw, course S., continue ascent.
39.93	On SE. slope, 200 ft. above bottom of canyon
	Set an iron post, 3 ft. long, 1 in. diam., 30 ins. in the ground, for the ¼ sec. cor., with brass cap mkd.
	¼ S 9 / S 16
	1934. from which
	An aspen, 6 ins. in diam., brs. N. 7° E., 15 lks. dist., mkd. ¼ S 9 BT.
	An aspen, 5 ins. in diam., brs. S. 28° E., 12 lks. dist., mkd. ¼ S16 BT.
	Enter medium dense growth of aspen timber, brs. N. and S.
59.00	Top of spur, 290 ft. above ¼ sec. cor., projects S. 20° W., leave aspen timber, brs. with top of spur, enter dense growth of oak, service berry, and scattered sage brush, descend steep W. slope.
69.60	Leave oak, service berry, and sage brush, enter dense growth of aspen timber and chokecherry brush, brs. SE. and NW.

Chains	
76.90	Bottom of draw, 585 ft. below top of spur, drains S. 65° W., continue descent along SW. slope.
79.86	The cor. of secs. 8, 9, 16, and 17, 620 ft. below top of spur.
	Land, mountainous, with steep slopes; general exposure and drainage SW. Soil, rocky clay loam; 3rd rate. Timber, aspen, balsam fir, and Douglas fir. Undergrowth, oak, chokecherry, service berry, sage, and deer browse brush; medium growth of grass and weeds. Fair grazing land.
	N. 0° 03' W., bet. secs. 8 and 9.
	Ascend SW. slope, over mountainous land, through dense aspen timber and chokecherry brush.
1.90	Bottom of draw, 25 ft. above sec. cor., drains S. 20° W., leave aspen timber, enter dense growth of oak and service berry brush, brs. E. and W., ascend SE. slope.
18.10	Top of spur, 365 ft. above sec. cor., projects W.; leave oak and service berry brush, enter dense aspen and willows, brs. with spur top; descend steep N. slope.
36.00	Bottom of canyon, 670 ft. below top of spur, course N. 60° W., leave aspen and willows, enter dense oak and service berry brush and scattered mahogany; ascend steep S. slope.
40.00	On steep S. slope, 80 ft. above bottom of canyon,
	Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground and in a mound of stone to top of post, for the ¼ sec. cor., with brass cap mkd..
	¼ S 8 | S 9 1934
	A mahogany, 6 ins. in diam., brs. N. 80°30' E., 45 lks. dist., mkd. ¼ S 9 BT. from which
	No suitable bearing tree available in sec. 8, raise a mound of stone, 3 ft. base, 3 ft. high, W. of cor.
49.40	Top of spur, 100 ft. above the ¼ sec. cor., projects W., descend NW. slope.
56.60	Bottom of draw, 125 ft. below top of spur, drains S. 50° W., oakbrush becomes scattered, enter dense mahogany and service berry brush, brs. NE. and SW., ascend steep S. slope.
68.90	Top of spur, 370 ft. above bottom of draw, projects N. 80° W. from SE., enter medium dense growth of balsam, Douglas fir, aspen and willows, brs. with top of spur; descend steep N. slope.
80.00	On steep N. slope, 350 ft. below top of spur

Chains	
	Set an iron post, 3 ft. long, 2 ins. diam., 27 ins. in the ground, for the cor. of secs. 4, 5, 8, and 9, with brass cap mkd.

T11S R5E	
S 5	S 4
S 8	S 9

1934 from which

A balsam fir, 16 ins. in diam., brs. N. 20°30' E., 64 lks. dist., mkd. T11S R5E S4 BT.

A balsam fir, 14 ins. in diam., brs. S. 22° E., 62 lks. dist., mkd. T11S R5E S9 BT.

A balsam fir, 6 ins. in diam., brs. S. 3°45' W., 68 lks. dist., mkd. T11S R5E S8 BT.

A Douglas fir, 14 ins. in diam., brs. N. 45° W., 20 lks. dist., mkd. T11S R5E S5 BT.

Land, mountainous, with steep slopes; general exposure and drainage W.
Soil, rocky clay loam; 3rd rate.
Timber, aspen, Douglas fir, and balsam fir.
Undergrowth, oak, service berry, mahogany, chokecherry and willow brush; medium growth of grass and weeds.
Fair grazing land.

S. 89° 56' E., on random line, bet. secs. 4 and 9.

40.00 Set temp. ¼ sec. cor.

79.90 Intersect N. and S. line, 9 lks. S. of the cor. of secs. 3, 4, 9, and 10.

Thence

West, on true line, bet. secs. 4 and 9.

Descend SW. slope, over mountainous land, through dense oak and service berry brush and scattered balsam fir.

5.40 Bottom of Side Canyon, 160 ft. below sec. cor., course N. 20° W. from S. 50° E.; enter dense aspen, leave oak and service berry brush, brs. SE. and NW.; ascend NE. slope.

5.80 Old logging road, brs. N. 20° W. and S. 50° E.

12.00 Leave dense aspen, enter dense growth of maple, service berry, chokecherry, mountain laurel, wild rose, and wild currant brush, brs. N. and S.

21.00 Top of ascent, 375 ft. above bottom of canyon, slopes N., descend steep W. slope.

34.20 Bottom of draw, 330 ft. below top of ascent, drains N., ascend NE. slope,

39.95 On NE. slope, 170 ft. above bottom of draw

Set an iron post, 3 ft. long, 1 in. diam., 14 ins. in the ground to solid rock and in a mound of stone to top of post, for the ¼ sec. cor., with brass cap mkd.

Chains

$\frac{1}{4}$ S 4 / S 9

1934

from which

An aspen, 8 ins. in diam., brs. S. 71°45' W., 67 lks dist., mkd. ¼ S 9 BT.

An aspen, 6 ins. in diam., brs. N. 37°15' W., 40 lks dist., mkd. ¼ S 4 BT.

40.40 Enter medium dense aspen timber, brs. NE. and SW.

51.00 Top of ascent, 195 ft. above the ¼ sec. cor., slopes N., leave aspen timber, brs. N. and S., descend NW. slope.

54.90 Bottom of draw, 75 ft. below top of ascent, drains N., ascend NE. slope, enter dense balsam and Douglas fir.

59.10 Top of ascent, 25 ft. above bottom of draw, slopes N., descend NW. slope.

65.50 Bottom of draw, 80 ft. below top of ascent, drains N., ascend NE. slope.

68.30 Top of spur, 55 ft. above bottom of draw, projects N., descend NW. slope.

74.60 Bottom of draw, 155 ft. below top of spur, drains N., ascend steep NE. slope.

79.90 The cor. of secs. 4, 5, 8, and 9, 90 ft. above bottom of draw.

Land, mountainous, with steep slopes; N. exposure and drainage into Side Canyon.
Soil, rocky clay loam; 3rd rate.
Timber, balsam fir, Douglas fir, and aspen,
Undergrowth, oak, maple, service berry, chokecherry, mountain laurel, wild currant, and wild rose brush; medium growth of grass and weeds.
Fair grazing land.

N. 0° 03' W., bet. secs. 4 and 5.

Descend NE. slope, over mountainous land, through medium dense growth of balsam fir, Douglas fir, aspen, and maple with scattered chokecherry, service berry, oak, and wild rose brush.

21.80 Bottom of Side Canyon, 700 ft. below sec. cor., stream of clear water, 1 link wide, 1 in. deep, course N. 70° W.; ascend steep SW. slope.

22.40 Old logging road, brs. N. 70° W. and S. 70° E., leave timber, brs. E. and W., enter scattered mahogany, buck, and sage brush.

40. 0 On steep SW. slope, 520 ft. above bottom of Side Canyon

Set an iron post, 3 ft. long, 1 in diam., 4 ins. in the ground to solid rock and in a mound of stone to top of post for the ¼ sec. cor., with brass cap mkd.

Chains

$\frac{1}{4}$

S 5 | S 4

1934

from which

A mahogany, 12 ins. in diam., brs. N. 69° E., 50 lks. dist., mkd. $\frac{1}{4}$ S 4 BT.

A mahogany, 4 ins. in diam., brs. N. 18° W., 37 lks. dist., mkd. $\frac{1}{4}$ S 5 BT.

46.10 Top of spur, 70 ft. above $\frac{1}{4}$ sec. cor., projects N. 75° W., leave mahogany; enter medium dense growth of balsam fir, Douglas fir, and aspen timber, descend steep N. slope.

58.60 Bottom of canyon, 565 ft. below top of spur, small stream of clear water, drains W., leave timber, enter dense oak, and service berry brush, brs. with canyon bottom, ascend N. slope.

66.73 On S. slope, 345 ft. above bottom of canyon, intersect the second stan. par. S., at point of intersection

Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the ground to solid rock, with a sandstone, 3x8x8 ins., mkd. X, deposited at the base, and in a mound of stone to top of post, for the closing cor. of secs. 4 and 5, with brass cap mkd.

T10S R5E
S33

S 5 | S 4

T11S R5E
CC
1934

raise a mound

of stone, 3 ft. base, $2\frac{1}{2}$ ft. high, S. of cor.

No suitable bearing trees available.

From point of intersection, the restored stan. $\frac{1}{4}$ sec. cor., S. bdy. sec. 33, T. 10 S., R. 5 E., heretofore described, brs. N. 89° 57' E., 9.43 chs. dist.

Land, mountainous, with steep slopes; general exposure and drainage W.
Soil, rocky clay mountain loam; 3rd rate.
Timber, balsam, Douglas fir, and aspen.
Undergrowth, oak, service berry, maple, mahogany, choke-cherry, buck, and sage brush; medium growth of grass and weeds.
Fair grazing land.

From the cor. of secs. 31 and 32, on S. bdy. of Tp., which is an iron post, 2 ins. diam., extending 9 ins. above ground, firmly set, properly mkd. and witnessed as described in the official records,

N. 0° 03' W., bet. secs. 31 and 32.

Descend steep N. slope, over mountainous land, through dense growth of oak and service berry brush with scattered balsam fir timber.

U. S. GOVERNMENT PRINTING OFFICE: 1931 6—8155

Chains	
1.30	Old unused road to Indianola, brs. N. 70° E. and W.
2.30	Bottom of Lucy Fork Canyon, 50 ft. below sec. cor., stre of clear water, 3 lks. wide and 2 ins. deep, course S. 60 W.; ascend along rolling W. slope.
3.40	Small stream of water, drains S. 10° W., head of spring brs. N. 40° E., approximately 1.00 chain dist.
19.90	Bottom of draw, drains W. 4 chs. dist., thence S. 20° W., from N. 60° E., continue ascent over SW. slope.
40.00	On steep SW. slope, 745 ft. above bottom of Lucy Fork Canyon
	Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground, for the ¼ sec. cor., with brass cap mkd.
	¼ S31 | S32 1934 raise a mound
	of stone, 4 ft. base, 3 ft. high, W. of cor.
	No bearing trees available.
49.60	Top of spur, projects S. 50° W., continue ascent along W. slope.
52.90	Top of spur, 285 ft. above the ¼ sec. cor., descend steep NW. slope, enter medium growth of chokecherry and maple brush.
54.70	From this point, the SE. corner of a corral brs. N. 62° W.
71.40	Bottom of draw, 170 ft. below top of spur, drains S. 30° W.; leave maples, brs. with bottom of draw; ascend steep SW. slope.
80.00	On steep SW. slope, 280 ft. above bottom of draw
	Set an iron post, 3 ft. long, 2 ins. diam., 28 ins. in the ground, for the cor. of secs. 29, 30, 31, and 32, with bra cap mkd.
	T11S R5E S30 | S29 S31 | S32 1934 raise a mound
	of stone, 3 ft. base, 2½ ft. high, W. of cor.
	No bearing trees available.
	Land, mountainous, with steep slopes; general exposure and drainage SW. into Lucy Fork Canyon. Soil, rocky clay mountain loam; 3rd rate. Timber, scattered balsam fir. Undergrowth, oak, service berry, chokecherry, maple, and sage brush; medium growth of grass and weeds. Fair grazing land.

Chains	
	East, on random line, bet. secs. 29 and 32.
40.00	Set temp. ¼ sec. cor.
80.04	Intersect N. and S. line, 9 lks. S. of the cor. of secs. 28, 29, 32, and 33.
	Thence
	S. 89° 56' W., on true line, bet. secs. 29 and 32.
	Descend W. slope, over mountainous land, through medium dense growth of aspen timber.
4.80	Bottom of draw, 95 ft. below sec. cor., drains S. 30° W.; small spring brs. N. 9° 30' E., 1.45 chs. dist.; corral brs. S. 30°45' W. Aspen becomes scattered, enter dense chokecherry, oak, and service berry brush, brs. N. and S.; ascend E. slope.
14.10	Trail, brs. S. 45° W. and N. 45° E.
17.60	Top of spur, 215 ft. above bottom of draw, projects S. 25° W., descend W. slope.
24.50	Bottom of draw, 150 ft. below top of spur, drains S. 30° W., ascend SE. slope.
36.60	Head of draw, drains S. 60° E., continue ascent over E. slope.
40.02	On steep E. slope, 210 ft. above bottom of draw
	Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground, for the ¼ sec. cor., with brass cap mkd.
	¼ S 29 / S 32
	1934
	from which
	An aspen, 6 ins. in diam., brs. S. 10° W., 19 lks. dist., mkd. ¼ S32 BT.
	An aspen, 5 ins. in diam., brs. N. 21°15' W., 18 lks. dist., mkd. ¼ S29 BT.
46.50	Top of spur, 195 ft. above ¼ sec. cor., projects S.; continue ascent over SE. slope, leave aspen timber, enter scattered sagebrush, brs. with top of spur.
57.70	Top of spur, 260 ft. above ¼ sec. cor., projects S. 26° W., descend W. slope.
71.40	Head of draw, 285 ft. below top of spur, drains S. 30° W., descend SW. slope.
80.04	The cor. of secs. 29, 30, 31, and 32, 430 ft. below top of spur.
	Land, mountainous, with steep slopes; general exposure and drainage S. into Lucy Fork Canyon. Soil, rocky clay loam; 3rd rate. Timber, aspen and balsam fir. Undergrowth, chokecherry, oak, service berry, and sage brush; medium growth of grass and weeds. Fair grazing land.

U. S. GOVERNMENT PRINTING OFFICE: 1951 8—8155

Chains	
	West, on random line, bet. secs. 30 and 31.
40.00	Set temp. ¼ sec. cor.
64.76	Intersect W. bdy. of Tp., 6 lks. N. of cor. of secs. 30 31, which is an iron post, 2 ins. diam., firmly set, properly mkd., and witnessed as described in the offici record.
	Thence
	N. 89° 57' E., on true line, bet. secs. 30 and 31.
	Ascend S. slope, over mountainous land, through dense growth of oak and scattered service berry brush.
6.60	Top of ascent, 65 ft. above sec. cor., projects S., desp E. slope.
13.60	Bottom of draw, 120 ft. below top of ascent, drains S., head of draw brs. N. approximately 4 chs. dist.; ascend rolling SW. slope.
19.80	Top of ridge, 55 ft. above bottom of draw, brs. S. 40° E. and N. 70° W., descend NE. slope.
24.76	On NE. slope, 35 ft. below top of ridge
	Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground, for the ¼ sec. cor., with brass cap mkd.
	¼ S 30 / S 31
	1934 raise a mound
	of stone, 3 ft. base, 2½ ft. high, N. of cor.
	No bearing trees available.
27.20	Bottom of draw, 30 ft. below the ¼ sec. cor., drains N.; trail follows along bottom; ascend W. slope
44.70	Brown's Peak trail to Indianola, brs. N. and S. From this point the SE. corner of corral, same as at 54.7 bet. secs. 31 and 32, brs. S. 68°30' W.
58.50	Top of ridge, brs. N. 80° E. and S. 80° W., 800 ft. above bottom of draw, thence along steep S. slope, with little change in elevation.
64.76	The cor. of secs. 29, 30, 31, and 32.
	Land, mountainous, with steep slopes; exposure and drain S. on portions of mile, and N. on portion of mile. Soil, rocky clay loam; 3rd rate. Timber, none. Undergrowth, oak, service berry, and chokecherry; medi growth of grass and weeds. Fair grazing land.
	N. 0° 03' W., bet. secs. 29 and 30.
	Ascend steep S. slope, over mountainous land, through dense growth of oak brush.

Chains	
5.40	Top of ridge, 160 ft. above sec. cor., brs. S. 55° W. and N. 55° E.; descend NW. slope; leave oak, enter medium dense sagebrush, brs. with top of ridge.
9.60	Leave sagebrush, enter dense aspen timber and medium dense deer browse, brs. N. 70° W. and S. 70° E.
9.70	Top of spur, projects N. 65° W.; continue descent over N. slope.
14.70	Brown's Peak trail to Indianola, brs. E. and W.
16.30	Descend more gradual N. slope.
21.70	Continue descent over steep N. slope; enter scattered chokecherry brush.
34.10	Enter scattered Douglas fir timber, brs. E. and W.
36.30	Bottom of Rock Creek Canyon, 710 ft. below top of ridge, course S. 80° W.; ascend S. slope.
36.80	Trail, brs. E. and W.
38.30	Leave timber, enter dense growth of oak and scattered maple and service berry brush.
40.00	On steep S. slope, 120 ft. above bottom of canyon
	Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground and in a mound of stone to top, for the ¼ sec. cor., with brass cap mkd.
	$\frac{1}{4}$ S 30 | S 29 1934 raise a mound
	of stone, 4 ft. base, 3 ft. high, W. of cor.
	No suitable bearing trees available.
52.40	Oak becomes scattered, enter dense short chokecherry and sage brush; continue ascent over more gradual S. slope, brs. E. and W.
66.80	Leave oak, enter dense tall chokecherry brush, brs. E. and W.
75.30	Top of spur, 685 ft. above the ¼ sec. cor.; trail follows along top of spur, brs. N. 73° E. and S. 73° W.; chokecherry becomes scattered, enter scattered aspen and fir timber and maple undergrowth, brs. with top of spur. Descend steep NW. slope.
80.00	On steep NW. slope, 125 ft. below top of spur
	Set an iron post, 3 ft. long, 2 ins. diam., 27 ins. in the ground, for the cor. of secs. 19, 20, 29, and 30, with brass cap mkd.

U. S. GOVERNMENT PRINTING OFFICE: 1951 0—8155

Chains	

T11S R5E

S 19	S 20
S 30	S 29

1934 from which

A balsam fir, 10 ins. in diam., brs. N. 17° 19' E., 1 lks. dist., mkd. T11S R5E S20 BT.

A balsam fir, 10 ins. in diam., brs. S. 67° E., 27 lks dist., mkd. T11S R5E S29 BT.

A balsam fir, 8 ins. in diam., brs. S. 83° W., 31 lks. dist., mkd. T11S R5E S30 BT.

A balsam fir, 11 ins. in diam., brs. N. 59° 30' W., 17 lks. dist., mkd. T11S R5E S19 BT.

Land, mountainous, with steep slopes; exposure and drainage N. on S. half mile, and S. on N. half of mile.
Soil, rocky clay loam; 3rd rate.
Timber, aspen, balsam, and Douglas fir.
Undergrowth, chokecherry, oak, maple, service berry, and sage brush; medium growth of grass and weeds.
Fair grazing land.

N. 89° 56' E., on random line, bet. secs. 20 and 29.

40.00 Set temp. ¼ sec. cor.

80.06 Intersect N. and S. line, 14 lks. N. of the cor. of secs. 20, 21, 28, and 29.

Thence

N. 89° 58' W., on true line, bet. secs. 20 and 29.

Descend steep W. slope, over mountainous land, through dense oak and scattered chokecherry brush.

8.70 Head of draw, 190 ft. below the sec. cor., drains S. 45° W., approximately 6 chs. thence W.; continue descent along S. slope.

16.50 Slope changes from S. to SW., chokecherry becomes dense, enter medium dense growth of aspen, brs. N. and S.; continue descent.

30.40 Bottom of draw, 470 ft. below sec. cor., drains S.; ascend along S. slope.

40.03 On S. slope, 85 ft. above bottom of draw

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

¼ S 20 / S 29

1934 from which

An aspen, 5 ins. in diam., brs. S. 83° W., 93 lks. dist., mkd. ¼ S29 BT.

Chains	
	An aspen, 6 ins. in diam., brs. N. 79° 45' W., 116 lks. dist., mkd. ¼ S20 BT.
43.70	Small spring 80 lks. N. of line, drains S.
70.40	Top of spur, 125 ft. above ¼ sec. cor., brs. N. 40° E. and S. 55° W.; leave oak and service berry brush, enter scattered balsam timber and maple undergrowth, brs. with spur top; descend steep NW. slope.
80.06	The cor. of secs. 19, 20, 29, and 30, 210 ft. below top of spur.
	Land, mountainous, with steep slopes; general drainage and exposure S. Soil, rocky clay loam; 3rd rate. Timber, aspen, balsam, and Douglas fir. Undergrowth, oak, service berry, chokecherry, and maple brush; medium growth of grass and weeds. Fair grazing land.
	S. 89° 57' W., on random line, bet. secs. 19 and 30.
40.00	Set temp. ¼ sec. cor.
64.70	Intersect the W. bdy. of the Tp., 12 lks. S. of the cor. of secs. 19 and 30, which is an iron post, 2 ins. diam., firmly set, properly mkd. and witnessed as described in the official record.
	Thence
	S. 89° 57' E., on true line, bet. secs. 19 and 30.
	Descend steep SE. slope, over mountainous land, through scattered oak, mahogany, and mountain laurel brush.
.40	Bottom of canyon, 20 ft. below sec. cor., course S. 50° W.; ascend steep W. slope.
14.40	Top of spur, 575 ft. above bottom of canyon, slopes N.; leave mahogany, oak, and mountain laurel brush, enter medium dense aspen, balsam, and Douglas fir timber and chokecherry brush; ascend along N. slope.
20.70	Top of ascent, 640 ft. above bottom of canyon, projects N.; descend along N. slope.
24.70	On steep N. slope, 65 ft. below top of ascent
	Set an iron post, 3 ft. long, 1 in. diam., 24 ins. in the ground, to solid rock, and in a mound of stone to top, for the ¼ sec. cor., with brass cap mkd.

¼ S 19 / S 30

1934 from which

A balsam fir, 6 ins. in diam., brs. N. 31° 30' E., 29 lks. dist., mkd. ¼ S19 BT.

U. S. GOVERNMENT PRINTING OFFICE: 1931 C—8155

Chains

A Douglas fir, 24 ins. in diam., brs. S. 51° 45' W., 24 lks. dist., mkd. ¼ S30 BT.

28.20 Bottom of draw, 50 ft. below the ¼ sec. cor., drains N.; ascend steep N. slope.

30.80 Leave aspen timber, enter dense oak and service berry brush brs. N. and S.

37.70 Top of spur, 340 ft. above bottom of draw, projects N. 30° W.; descend NE. slope.

39.10 Bottom of draw, 45 ft. below top of spur, drains N.; ascend along N. slope.

40.70 The cor. of secs. 19, 20, 29, and 30, 235 ft. above bottom of draw.

Land, mountainous, with steep slopes; general exposure and drainage N. into canyon bottom.
Soil, rocky clay loam; 3rd rate.
Timber, balsam, Douglas fir, and aspen.
Undergrowth, oak, service berry, chokecherry, mountain laurel, and mahogany; medium growth of grass and weeds.
Poor grazing land.

N. 0° 03' W., bet. secs. 19 and 20.

Descend steep NW. slope, over mountainous land, through medium dense growth of balsam and Douglas fir timber, and maple and chokecherry undergrowth.

4.90 Head of ravine, 135 ft. below sec. cor., drains NW.; ascend SW. slope; leave fir timber, enter medium dense growth of aspen timber, brs. with ravine.

12.20 Leave timber, enter dense deer browse and chokecherry, brs. NE. and SW.

16.20 Leave chokecherry, enter medium dense oak and service berry brush, brs. E. and W.

23.00 Top of ridge, 280 ft. above head of ravine, brs. N. 60° W. and S. 65° E.; trail follows along top of ridge; leave oak and service berry brush, enter dense aspen timber, brs. with ridge top. Descend NE. slope.

31.90 Enter dense balsam timber, brs. E. and W.

34.10 Leave fir timber, brs. E. and W.

40.00 On NE. slope, 315 ft. below top of ridge

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

¼
S 19 | S 20
1934

from which

An aspen, 6 ins. in diam., brs. S. 39° 30' E., 10 lks. dist., mkd. ¼ S20 BT.

Chains	
	An aspen, 6 ins. in diam., brs. S. 89°30' W., 18 lks. dist., mkd. ¼ S19 BT.
44.80	Slope changes from NE, to N., timber becomes scattered, continue abrupt descent.
48.00	Bottom of draw, 220 ft. below the ¼ sec. cor., drains NE., continue descent.
52.50	Leave timber, enter scattered oak brush, brs. NE. and W., descend along E. slope.
57.60	Leave oak brush, enter dense aspen timber, brs. NE. and SW.
59.00	Slope changes from E. to NW., brs. NE. and SW., continue descent.
62.90	Bottom of small ravine, drains NE., ascend along E. slope.
66.40	Top of ascent, brs. E. and W., descend steep N. slope.
73.50	Bottom of canyon, 610 ft. below ¼ sec. cor., course N. 70° W., ascend steep S. slope.
74.60	Leave aspen timber, enter dense oak and scattered service berry brush, brs. E. and W.
80.00	On steep SW. slope, 215 ft. above bottom of canyon
	Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the ground to solid rock and in a mound of stone to top, for the cor. of secs. 17, 18, 19, and 20, with brass cap mkd.

T11S	R5E
S18	S17
S19	S20

1934

raise a mound of stone, 4 ft. base, 3 ft. high, W. of cor.

No bearing trees available.

Land, mountainous; with steep slopes; exposure and drainage W. on S. ¼ of mile, and NE. on N. ¾ of mile.
Soil, rocky clay loam; 3rd rate.
Timber, aspen, balsam fir, and Douglas fir.
Undergrowth, oak, service berry, maple, chokecherry, and deer browse brush; medium growth of grass and weeds.
Fair grazing land.

	S. 89° 58' E., on random line, bet. secs. 17 and 20.
40.00	Set temp. ¼ sec. cor.
80.02	Intersect N. and S. line, 9 lks. S. of the cor. of secs. 16, 17, 20, and 21.
	Thence
	S. 89° 58' W., on true line, bet. secs. 17 and 20.
	Descend steep W. slope, over mountainous land, through medium dense growth of Douglas fir, balsam fir, and aspen timber, and maple and chokecherry brush.

Chains	
5.30	Bottom of canyon, 195 ft. below sec. cor., course N., ascend steep E. slope.
40.01	On steep E. slope, 715 ft. above bottom of canyon
	Set an iron post, 3 ft. long, 1 in. diam., 20 ins. in the ground to solid rock and in a mound of stone to top; for the ¼ sec. cor., with brass cap mkd.
	¼ S 17 / S 20
	1934
	from which
	An aspen, 8 ins. in diam., brs. N. 13° E., 25 lks. dist mkd. ¼ S17 BT.
	An aspen, 8 ins. in diam., brs. S. 14°45' E., 33 lks. dist., mkd. ¼ S20 BT.
46.10	Top of spur, 60 ft. above ¼ sec. cor., projects N. approximately 5 chs. thence N. 60° W.; leave aspen, fir becomes scattered, enter dense service berry and oak brush brs. with top of spur; descend steep SW. slope.
55.50	Bottom of small draw, drains S. 50° W., leave timber brs. with draw; continue descent along steep S. slope, through dense oak and service berry brush.
80.02	The cor. of secs. 17, 18, 19, and 20, 570 ft. below top of spur.
	Land, mountainous, with steep slopes; exposure and drainag E. on E. half mile, and SW. on W. half. Soil, rocky clay loam; 3rd rate. Timber, aspen, balsam fir, and Douglas fir. Undergrowth, oak, service berry, chokecherry, and maple brush; medium growth of grass and weeds. Fair grazing land.
	N. 89° 57' W., on random line, bet. secs. 18 and 19.
40.00	Set temp. ¼ sec. cor.
64.61	Intersect the W. bdy. of Tp., 8 lks. S. of the cor. of sec 18 and 19, which is an iron post, 2 ins. diam., extending 9 ins. above ground, firmly set, with brass cap properly mkd. and witnessed as described in the official records.
	Thence
	S. 89° 53' E, on true line, bet. secs. 18 and 19.
	Ascend NW. slope, over mountainous land, through dense growth of oak brush.
5.10	Top of spur, 135 ft. above sec. cor., projects NW., leave oak brush, enter dense growth of aspen timber, descend NE. slope.
11.80	Bottom of draw, 40 ft. below top of spur, drains N. 30° W. leave timber, brs. with draw; ascend NW. slope through dens oak brush.
20.50	Top of spur, 215 ft. above bottom of draw, projects N., descend along N. slope.

Chains	
24.61	On steep E. slope, 35 ft. below top of spur Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground, for the ¼ sec. cor., with brass cap mkd. ¼ S 18 / S 19 1934 from which A balsam fir, 6 ins. in diam., brs. N. 59°45' E., 345 lks. dist., mkd. ¼ S18 BT. A mahogany, 10 ins. in diam., brs. S. 10°30' W., 60 lks. dist., mkd. ¼ S19 BT. Enter scattered mahogany, brs. NE. and SW., descend steep E. slope.
36.30	Leave oak and mahogany; enter dense aspen timber, brs. N. and S.
38.80	Bottom of deep draw, 560 ft. below ¼ sec. cor., drains N. from S. 20° W., ascend steep W. slope.
41.30	Top of spur, 100 ft. above bottom of draw, projects N. approximately 5 chs. dist.; descend NE. slope.
47.80	Bottom of canyon, 80 ft. below top of spur, course N. 30° W., ascend steep SW. slope.
51.90	Leave aspen timber, enter dense growth of oak and service berry brush, brs. SE. and NW.
64.61	The cor. of secs. 17, 18, 19, and 20, 450 ft. above bottom of canyon. Land, mountainous, with steep slopes; general exposure and drainage N. Soil, rocky clay loam; 3rd rate. Timber, aspen, with scattered balsam fir. Undergrowth, oak, service berry, mahogany, and maple brush; medium growth of grass and weeds. Fair grazing land.

N. 0° 03' W., bet. secs. 17 and 18.

Ascend steep SW. slope, over mountainous land, through dense growth of oak and service berry brush.

13.10	Top of spur, 265 ft. above sec. cor., projects W.; descend along steep E. slope.
26.40	Top of spur, projects N. 35° E., enter scattered aspen and balsam timber, wild rose, manzanita, and mountain laurel; descend steep NW. slope.
40.00	On steep NW. slope, 460 ft. below top of spur at 13.10, Set an iron post, 3 ft. long, 1 in. diam., 20 ins. in the ground to solid rock and in a mound of stone to top of post, for the ¼ sec. cor., with brass cap mkd.

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Chains	
	$\frac{1}{4}$ S18 | S17 1934 from which
	An aspen, 6 ins. in diam., brs. N. 78°30' E., 36 lks. dist., mkd. $\frac{1}{4}$ S17 BT.
	An aspen, 6 ins. in diam., brs. N. 43°30' W., 23 lks. dist., mkd. $\frac{1}{4}$ S18 BT.
46.70	Top of conglomerate ledge, 50 ft. high, brs. W. approximately 2 chs. dist., from E.; continue descent.
59.30	Bottom of draw, 500 ft. below $\frac{1}{4}$ sec. cor., drains N. 20° E., ascend along E. slope.
65.70	Top of spur, 25 ft. above bottom of draw, projects N. 30° E. approximately 5 chs. dist.; enter dense growth of aspen timber, descend steep N. slope, brs. with spur.
70.60	Bottom of Lake Fork Canyon, 175 ft. below top of spur, stream of clear water, 5 lks. wide and 2 ins. deep, course N. 55° W., trail follows along canyon bottom. Leave aspen timber, brs. with canyon bottom, ascend steep S. slope through dense oak, scattered service berry, and mahogany brush.
80.00	On steep S. slope, 200 ft. above bottom of Lake Fork Canyon
	Set an iron post, 3 ft. long, 2 ins. diam., 27 ins. in the ground, for the cor. of secs. 7, 8, 17, and 18, with brass cap mkd.
	T11S R5E S 7 | S 8 / S18 | S17 1934 from which
	A balsam fir, 10 ins. in diam., brs. S. 6°15' E., 306 lks. dist., mkd. T11S R5E S17 BT.
	A mahogany, 6 ins. in diam., brs. S. 47° W., 54 lks. dist., mkd. T11S R5E S18 BT.
	No suitable bearing trees available in secs. 7 and 8; raise a mound of stone, 3 ft. base, $2\frac{1}{2}$ ft. high, W. of cor.
	Land, mountainous, with steep slopes; general exposure and drainage N. into Lake Fork Canyon. Soil, rocky clay loam; 3rd rate. Timber, aspen, balsam fir, and Douglas fir. Undergrowth, oak, service berry, wild rose, manzanita, mountain laurel, and mahogany; medium growth of grass and weeds. Fair grazing land.
	N. 89° 58' E., on random line, bet. secs. 8 and 17.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
80.08	Intersect N. and S. line, 7 lks. N. of the cor. of secs. 8, 9, 16, and 17.

Chains	
	Thence
	N. 89° 59' W., on true line, bet. secs. 8 and 17.
	Descend SW. slope, over mountainous land, through dense aspen timber.
.40	Bottom of draw, 5 ft. below sec. cor., drains S., ascend E. slope.
2.30	Leave aspen timber, enter dense oak and service berry brush, brs. N. and S.; continue ascent over SE. slope.
10.40	Top of spur, 135 ft. above bottom of draw, projects S., descend steep W. slope.
17.20	Bottom of draw, 195 ft. below top of spur, drains S., ascend steep E. slope.
35.30	Top of spur, 315 ft. above bottom of draw, projects S., descend steep W. slope.
40.04	On steep W. slope, 160 ft. below top of spur
	Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground, for the ¼ sec. cor., with brass cap mkd.
	¼ S 8 / S17
	1934 from which
	A balsam fir, 7 ins. in diam., brs. S. 15°30' ..., 153 lks. dist., mkd. ¼ S17 BT.
	A balsam fir, 6 ins. in diam., brs. N. 18° ..., 104 lks. dist., mkd. ¼ S 8 BT.
43.60	Bottom of draw, 160 ft. below ¼ sec. cor., drains S., ascend steep SE. slope.
57.70	Top of spur, 155 ft. above bottom of draw, projects S., descend abrupt NW. slope.
60.00	Descend abruptly, over broken conglomerate ledges.
65.20	Bottom of draw, 535 ft. below top of spur, drains S. 40° W., ascend along SE. slope.
72.00	Top of broken conglomerate spur, 100 ft. above bottom of draw, projects S., descend abrupt SW. slope, enter dense oak and scattered service berry and mahogany brush, brs. with top of spur.
80.08	The cor. of secs. 7, 8, 17, and 18, 430 ft. below top of spur.
	Land, mountainous, with steep slopes; general exposure and drainage SW., into Lake Fork Canyon. Soil, rocky clay loam; 3rd rate. Timber, aspen, some scattered balsam fir on portions of mile. Undergrowth, oak, service berry, chokecherry, and mahogany; medium growth of grass and weeds. Fair grazing land.

Chains	
	N. 89° 53' W., on random line, bet. secs. 7 and 18.
40.00	Set temp. ¼ sec. cor.
64.55	Intersect W. bdy., 5 lks. S. of the cor. of secs. 7 and which is an iron post, 2 ins. diam., firmly set, with be cap properly mkd. and witnessed as described in the offi ial records.
	Thence
	S. 89° 50' E., on true line, bet. secs. 7 and 18.
	Descend E. slope, over mountainous land, through dense o service berry, and scattered chokecherry brush.
20.20	Leave undergrowth, enter dense growth of aspen timber, br E. and W.
24.55	On E. slope, 605 ft. below sec. cor.
	Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground and in a mound of stone to top of post, for the ¼ sec. cor., with brass cap mkd.
	¼ S 7 / S 18
	1934
	from which
	An aspen, 6 ins. in diam., brs. S. 14° E., 23 lks. dist., mkd. ¼ S 18 BT.
	An aspen, 6 ins. in diam., brs. N. 46° W., 16 lks. dist., mkd. ¼ S 7 BT.
31.40	Bottom of canyon, 110 ft. below ¼ sec. cor., stream of clear water, 1 lk. wide, and 2 ins. deep, course N. 50° E ascend W. slope.
41.00	Leave aspen timber, enter dense growth of oak brush, brs. N. and S.
43.60	Top of spur, 280 ft. above bottom of canyon, projects N. 13° E., descend NE. slope.
50.70	Leave oak brush, enter dense aspen timber, brs. SE. and NW.
53.80	Old logging road, brs. N. 50° W. and S. 50° E., leave aspen timber, brs. SE. and NW.
54.60	Bottom of Lake Fork Canyon, 285 ft. below top of spur, course N. 50° W., ascend SW. slope through dense oak, scattered mahogany, and service berry brush.
64.55	The cor. of secs. 7, 8, 17, and 18, 225 ft. above bottom of Lake Fork Canyon.
	Land, mountainous, with steep slopes; general exposure and drainage N. into Lake Fork Canyon. Soil, rocky clay loam; 3rd rate. Timber, aspen. Undergrowth, oak, service berry, chokecherry, and mahogan brush; medium growth of grass and weeds. Fair grazing land.

Chains	
	N. 0° 03' W., bet. secs. 7 and 8.
	Ascend steep SW. slope, over mountainous land, through dense oak, service berry, and scattered mahogany.
11.10	Top of spur, 335 ft. above sec. cor., projects N. 70° W., descend steep N. slope.
13.60	Enter medium dense growth of scrub aspen timber, brs. SE. and NW.
20.20	Foot of steep slope, descend gradually along gradual W. slope.
22.00	Bottom of draw, 360 ft. below top of spur, drains N. 70° W., leave aspen timber, ascend SW. slope.
31.80	Top of ascent, 235 ft. above bottom of draw, slopes W., descend along steep W. slope.
37.80	Slope changes from W. to NW., descend abruptly, enter dense willows and aspen, brs. SE. and NW.
40.00	On steep NW. slope, 215 ft. below top of ascent
	Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground, for the ¼ sec. cor., with brass cap mkd.
	¼ S 7 | S 8 1934 from which
	An aspen, 6 ins. in diam., brs. N. 33° E., 82 lks. dist., mkd. ¼ S 8 BT.
	An aspen, 5 ins. in diam., brs. N. 48° W., 67 lks. dist., mkd. ¼ S 7 BT.
43.90	Bottom of draw, 155 ft. below ¼ sec. cor., drains N. 50° W., ascend gradual SW. slope.
47.30	Leave aspen and willows, oak brush becomes dense, brs. E. and W.
51.40	Top of spur, 25 ft. above bottom of draw, projects N. 50° W., descend NW. slope.
57.40	Bottom of draw, 162 ft. below top of spur, drains N. 40° W., ascend gradual SW. slope.
60.90	Top of spur, 35 ft. above bottom of draw, projects N. 40° W., descend steep N. slope.
66.50	Bottom of Lake Fork Canyon, 120 ft. below top of spur, stream of clear water, 2 lks. wide and 1 in. deep, course N. 50° E., old road follows along canyon bottom. Ascend steep SE slope.
80.00	On steep E. slope, 210 ft. above bottom of Lake Fork Canyon
	Set an iron post, 3 ft. long, 2 ins. diam., 27 ins. in the ground and in a mound of stone to top, for the cor. of secs. 5, 6, 7, and 8, with brass cap mkd.

Chains

T11S R5E

S 6	S 5
S 7	S 8

1934

raise a mound of stone, 3 ft. base, 2½ ft. high, W. of cor.

No bearing trees available.

Land, mountainous, with steep slopes; general exposure and drainage into Lake Fork Canyon.
Soil, rocky clay loam; 3rd rate.
Timber, aspen.
Undergrowth, oak, service berry, chokecherry, and mahogany
medium growth of grass and weeds.
Fair grazing land.

S. 89° 59' E., on random line, bet. secs. 5 and 8.

40.00 Set temp. ¼ sec. cor.

40.08 Intersect N. and S. line, 12 lks. S. of the cor. of secs. 4, 5, 8, and 9.

Thence

S. 89° 56' W., on true line, bet. secs. 5 and 8.

Ascend steep NE. slope, over mountainous land, through dense growth of Douglas fir and balsam fir timber, with maple and service berry undergrowth.

8.20 Top of spur, 225 ft. above sec. cor., projects N. 65° W. from S. 35° E.; leave timber, enter scattered mahogany and oak brush, descend SW. slope.

20.10 Bottom of small draw, drains S. 30° W., continue descent over broken S. slope.

32.70 Descend over broken conglomerate ledges, brs. SE. and NW.

40.04 On steep S. slope, 550 ft. below top of spur.

Set an iron post, 3 ft. long, 1 in. diam., 30 ins. in the ground, for the ¼ sec. cor., with brass cap mkd.

¼ S 5 / S 8

1934

from which

A maple, 5 ins. in diam., brs. N. 75° E., 12 lks. dist., mkd. ¼ S 5 BT.

A maple, 3 ins. in diam., brs. South, 6 lks. dist., mkd. ¼ S 8 BT.

50.00 Foot of ledges, brs. SE. and NW., continue descent over steep SW. slope.

58.70 Bottom of draw, 575 ft. below ¼ sec. cor., drains N. 45° W., small stream of clear water in bottom of draw. Leave mahogany, enter dense aspen, Douglas fir, and balsam fir

Chains	
	timber, ascend steep SE. slope.
63.20	Top of spur, 105 ft. above bottom of draw, projects N. 40° W., descend abrupt W. slope.
68.70	Bottom of Lake Fork Canyon, 170 ft. below top of spur, stream of clear water, 10 lks. wide and 2 ins. deep, course N. from S. 20° W., leave timber, brs. with canyon.
69.70	Old road, brs. S. 20° W. and N., ascend steep E. slope.
80.08	The cor. of secs. 5, 6, 7, and 8, 250 ft. above bottom of Lake Fork Canyon.
	Land, mountainous, with steep slopes; general exposure and drainage into Lake Fork Canyon. Soil, rocky clay loam; 3rd rate. Timber, Douglas fir, balsam fir, and aspen. Undergrowth, oak, mahogany, and service berry; medium growth of grass and weeds. Poor grazing land.
	N. 89° 50' W., on random line, bet. secs. 6 and 7.
40.00	Set temp. ¼ sec. cor.
64.53	Intersect W. bdy. of Tp., 11 lks. N. of the cor. of secs. 6 and 7, which is an iron post, 2 ins. diam., firmly set, with brass cap properly mkd., and witnessed as described in the official record.
	Thence
	S. 89° 56' E., on true line, bet. secs. 6 and 7.
	Ascend along NW. slope, over mountainous land, through dense growth of aspen timber.
3.00	Top of ascent, 30 ft. above sec. cor., slopes NE., descend NE. slope.
7.10	Bottom of small draw, drains N. 50° E., from S. 40° W., continue descent.
14.60	Bottom of draw, 75 ft. below top of ascent, drains N. 30° E., ascend NW. slope.
24.45	Ditch emptying into Smith's reservoir, stream of clear water, 2 lks. wide and 2 ins. deep, course N. 50° E.
24.53	On NW. slope, 105 ft. above bottom of draw
	Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground, for the ¼ sec. cor., with brass cap mkd.

$$\frac{1}{4}\ \frac{S\ 6}{S\ 7}$$

1934 from which

An aspen, 6 ins. in diam., brs. S. 33° W., 20 lks. dist., mkd. ¼ S 7 BT.

An aspen, 7 ins. in diam., brs. N. 19° W., 16 lks. dist., mkd. ¼ S 6 BT.

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Chains

25.80 Top of ascent, 15 ft. above ¼ sec, cor., brs. NE. and SW leave aspen timber, enter dense oak brush, brs. with top of ascent. Descend gradual E. slope.

31.20 Ditch emptying into Smith's reservoir, stream of clear water 2 lks. wide and 2 ins. deep, course S. 30° E.

33.70 High water mark of Smith's reservoir, brs. north approximately 5 chs. and south approximately 15 chs., leave undergrowth, continue over nearly level bottom of reservoir, 75 ft. below top of ascent.

41.40 From this point, outlet of Smith's reservoir brs. S. 10° E., 12.40 chs. dist.

46.40 High water mark of Smith's reservoir, brs. north approximately 5 chs. and south approximately 15 chs., enter medium dense growth of sage, oak, and service berry brush, ascend gradual SW. slope.

51.30 Top of ascent, 60 ft. above bottom of reservoir, brs. N. and S., leave sagebrush, brs. with top of ascent, descend gradual SE. slope.

57.10 Slope changes from SE. to steep E. slope, continue descent

64.53 The cor. of secs. 5, 6, 7, and 8, 295 ft. below top of ascent.

Land, mountainous, with steep slopes; exposure and drainage SE. on E. half mile and NE. on remaining portion of mile.
Soil, rocky clay loam; 3rd rate.
Timber, aspen, on W. portion of mile.
Undergrowth, oak, sage, and service berry brush; medium growth of grass and weeds.
Fair grazing land.

N. 0° 03' W., bet. secs. 5 and 6.

Ascend along steep E. slope, over mountainous land, through dense growth of oak and service berry brush.

15.00 Top of ascent, 125 ft. above sec. cor., slopes E., descend NE. slope.

22.80 Bottom of draw, 190 ft. below top of ascent, drains N. 55° E., trail follows along bottom, enter scattered aspen timber, brs. with draw; thence along rolling E. slope.

27.90 Trail, brs. NE. and SW., enter scattered sagebrush brs. NE. and SW.

37.00 Top of low spur, 195 ft. below top of ascent, projects N. 70° E., descend N. slope.

40.00 On N. slope, 60 ft. below top of spur

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

¼
S 6 | S 5
1934

from which

Chains

An aspen, 8 ins. in diam., brs. S. 55° E., 13 lks. dist., mkd. A ¼ S 5 BT.

An aspen, 6 ins. in diam., brs. S. 56° W., 16 lks. dist., mkd. ¼ S 6 BT.

Descend along NE. slope.

61.10 Old road, brs. S. 30° E. and N. 10° W.; enter medium dense sagebrush; descend gradually over bottom land of Lake Fork Canyon.

62.55 Aspen corral fence, brs. westerly approximately 40 lks. and easterly approximately 50 lks. dist.

63.45 Leave corral, brs. E. and W.

66.92 On gradual N. slope, 280 ft. below ¼ sec. cor., intersect the second stan. par. S., at point of intersection

Set an iron post, 3 ft. long, 2 ins. in diam., 27 ins. in the ground and in a mound of stone to top, for the closing cor. of secs. 5 and 6, with brass cap mkd.

T10S R5E
S 32

S 6 | S 5
T11S R5E
CC
1934

from which

A spruce, 12 ins. in diam., brs. N. 89° E., 99 lks. dist., mkd. T10S R5E BT.

An aspen, 10 ins. in diam., brs. S. 23° W., 67 lks. dist., mkd. T11S R5E S6 CC BT.

Raise a mound of stone, 3 ft. base, 2½ ft. high, S. of cor.

No suitable bearing tree available in sec. 5.

From point of intersection, the restored stan. ¼ sec. cor., S. bdy. sec. 32, T. 10 S., R. 5 E., heretofore described, brs. N. 89° 57' E., 10.21 chs. dist.

Land, mountainous, with steep slopes; general drainage and exposure NE. into Lake Fork.
Soil, rocky clay loam; 3rd rate.
Timber, aspen and balsam on portions of mile.
Undergrowth, oak, sage, and service berry brush; medium growth of grass and weeds.
Fair grazing land.

FINAL TESTS OF SOLAR ATTACHMENTS

August 23: At a point located about 20 chs. S. of the ¼ corner of secs. 27 and 34, with both instruments, at 7h. 30m. a.m. app.t., we set off 39° 49½' N. on the lat. arcs; 11° 34' N., on the decl. arcs; and orient the instruments with the solars; the line of sight of each instrument agrees with the meridian established by Polaris observation.

At 4h. 30m. p.m., app.t., we set off 39° 49½' N. on the lat. arcs; 11° 27' N., on the decl. arcs; and repeat the test of the solars; the line of sight of each instrument agrees

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with the meridian established by Polaris observation.

AUGUST 23, 1934

GENERAL DESCRIPTION

The land within Township 11 South, Range 5 East, is moun tainous throughout, with long rolling slopes in the souti east portion and steep slopes with deep canyons north an west of the main ridge, which divides the drainage betwe the Great Salt Lake and Colorado River. The divide ente the township through the south boundary of section 34, extends through sections 34, 27, 26, 23, 13, and 24; lea ing the township through the east boundary of section 24, just south of the corner of sections 13 and 24. The drai age of the southeast portion of the township is tributar to Fish Creek, the southwest portion to Lucy Fork, the northwest and central portions to Lake Fork, and the nort east portion to Mill Fork. The general elevation of the township is approximately 6500 to 8500 feet above sea lev

The soil is a rocky clay loam, the rock formation being mostly sandstone with outcroppings of limestone and conglomerate at various points scattered over the township.

The timber consists of aspen, balsam, and Douglas fir, growing in dense groves, scattered throughout the townshi most common on the north slopes; some limber pine and jun iper are found widely scattered over the northern portion of the township. The aspen timber is of value chiefly as a fencing material and as firewood. A large amount of Douglas fir timber was removed from the land between 20 a 30 years prior to the survey, but the timber is of little value at the present time. Most of the slopes are covere with a dense undergrowth, consisting of oak, chokecherry, deer browse, service berry, elder berry, mountain laurel, or sage brush, or mixtures of several of these varieties of brush, along with a medium growth of native grass and weeds.

The township is located in the Manti National Forest Reserve, is used, and has great value, as a summer grazing area. All of the eastern portion of the township, including all of the higher land, is used for the grazing of sheep; the cattle range being limited to the lower lands of the western portion.

Numerous small springs are scattered throughout the township, making water for the watering of livestock plentiful if the springs are improved to an extent where their value may be taken full advantage of, a few are now improved. Small springs noted in these field notes are located in : the SE. ¼ of the NE. ¼ of section 9; the NW. ¼ of the NW. ¼ of section 10; the SW. ¼ of the SW. ¼ of section 32; the SE. ¼ of the SE. ¼ of section 10; the SW. ¼ of the SE. ¼ of section 11; the NW. ¼ of the NW. ¼ of section 13; the SE. ¼ of the SW. ¼ of section 20; the SE. ¼ of the SW. ¼ of section 25; the NW. ¼ of the NE. ¼ of section 27; the SE. ¼ of the SW. ¼ of section 27; the SE. ¼ of the SE. ¼ of section 29; the NE. ¼ of the SW. ¼ of section 22; Terry Spring, in the SW. ¼ of the NE. ¼ of section 11; and a small seep, in the NW. ¼ of the NW. ¼ of section 34. Mountain Lion Spring is located on the section line, 40 li south of the ¼ corner of sections 10 and 11. A small spring located in the SE. ¼ of the NW. ¼ of section 26 was not noted in the field notes.

Streams of clear water are in the following: Mill Fork Canyon, running through section 1; Side Canyon, running

U. S. GOVERNMENT PRINTING OFFICE: 1933 0—8155

through sections 4 and 5; a ditch emptying into Smith's reservoir, running through the SW. ¼ of the SE. ¼ of section 6, and the N. ½ of the NW. ¼ of section 7; Lake Fork Canyon, running through sections 5, 7, 8, 16, 17, 18, and 22; a branch of Lake Fork, running through section 18; Fish Creek, running through sections 24, 25, and 36; North Ditch Fork Canyon, running through sections 34 and 35; and Lucy Fork Canyon, running through sections 32 and 33, and the SE. ¼ of the SE. ¼ of section 31.

The Indianola, U.S. Coast and Geodetic Survey, Triangulation Station is located on Brown's Peak, in the SE. ¼ of the SW. ¼ of section 29. The geographic position of this station, adjusted on the North American Datum of 1927, is: latitude 39° 49' 40.286" N., and longitude 111° 23' 41.199" W.

A graded road, the main Forest Service road, in good condition, follows along the top of the divide, through the township, entering the south boundary of section 34 and leaving through the east boundary of section 24.

Two Forest Service trails to Indianola have been constructed, one by way of Brown's Peak, and the other following the bottom of Lucy Fork Canyon.

The nearest post office and supply point is Indianola, located about 7 miles, by trail, southwesterly. Fairview is reached by means of a graded road, and is approximately 25 miles distant, by road, in a southwesterly direction.

The only important private improvement within the township is what is known as Smith's reservoir, located in the SE. ¼ of section 6 and the NE. ¼ of section 7. This reservoir is used forthe storage of water to be used for irrigation later in the season. It is a natural basin, into which water is brought by means of ditches, and from which an outlet into Lake Fork Canyon has been provided. When filled to capacity the reservoir, as now arranged, covers an area about 15 by 20 chains, and is approximately 10 ft. deep at the deepest point.

No settlers were living in the township at the time of the survey.

The Iceberg Ranger Station is located in the NW. ¼ of section 26.

No surface indications of coal, oil, oilshale, or other minerals, were observed during the progress of the survey.

The mean observed magnetic declination is 16° 30' E.

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BOOK A-503

4—680
(August, 1926)

FIELD ASSISTANTS.

NAMES.	CAPACITY.
Kenneth V. Adams	Principal Assistant
Diran Broun	Chainman
Orval Clark	Chainman
Richard E. Severn	Flagman
John R. Raley	Flagman
Max W. Powelson	Axman
J. Kenneth Flygare	Axman
Robert E. Chappell	Axman
Fred L. Gadd	Axman
William M. Burke	Axman
William A Stanley	Axman
William R. Catrow	Axman
George B. Malin	Axman
Paul R. Strebel	Axman
Earl Lowry	Cornerman
Spencer Clawson	Cornerman

6—2764

CERTIFICATE OF UNITED STATES SURVEYOR

We, Andrew Nelson, U. S. Surveyor, hereby certify upon honor that, in pursu
Wilson McConkie, U.S. Transitman,
of special instructions received from the District Cadastral Engineer for Utah
bearing date of the 31st day of May, 19 32, we have well, faithfully, and tru
in our own proper persons and in strict conformity with said instructions, the Manual of Surveying Instru
tions, and the laws of the United States, surveyed all those parts or portions of
Dependent resurvey of the second standard
parallel south, along the south boundary of Township 10 South,
Range 5 East, and survey of the subdivisional lines of
Township 11 South, Range 5 East.
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 all the corners of
said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the District Cadastral Engineer for Utah
and in the specific manner described in the field notes, and that the foregoing are the original field notes of
such survey.

Salt Lake City, Utah,
Nov. 14, 1934.

Andrew Nelson
U. S. Surveyor.
Wilson McConkie U.S. Transit

APPROVAL

OFFICE OF U. S. SUPERVISOR OF SURVEYS,

Denver, Colorado FEB 4 - 1935, 19

The foregoing field notes of the survey of dependent resurvey of the second standard parallel south, along the south boundary of Township 10 South Range 5 East, and survey of the subdivisional lines of Township 11 South, Range 5 East.

executed by Andrew Nelson, U.S. Surveyor
Wilson McConkie, U.S. Transitman
under his special instructions dated May 31, 19 32, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

U. S. Supervisor of Surveys.

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

~~U. S. Supervisor of Surveys.~~

U. S. GOVERNMENT PRINTING OFFICE: 1927 6—2764

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Page

4—679

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BOOK A-503

RECEIVED
MAR 4 - 1933
Department Of The Interior
Public Survey Office
Salt Lake City, Utah

FIELD NOTES

OF THE SURVEY OF THE

NORTH AND SOUTH BOUNDARIES

AND

SUBDIVISION,

ESTABLISHMENT OF SEC. AND ¼ SEC. CORS.

ON

EAST BOUNDARY,

AND

DEPENDENT RESURVEY

OF

WEST BOUNDARY

OF

T. 23 S. R. 21 E.

Of the SALT LAKE *Meridian,*

In the State of UTAH

EXECUTED BY

CHAS. F. MOORE

In the capacity of U. S. Surveyor, under Special Instructions dated October 7, *19* 31, *issued by the District Cadastral Engineer to govern surveys included in Group No.* 237, *which were approved by the Commissioner of the General Land Office,* Dec. 23, *19* 31, *and Assignment Instructions dated* Sept. 21, *19* 32

Survey commenced October 1, *19* 32

Survey completed November 20, *19* 32

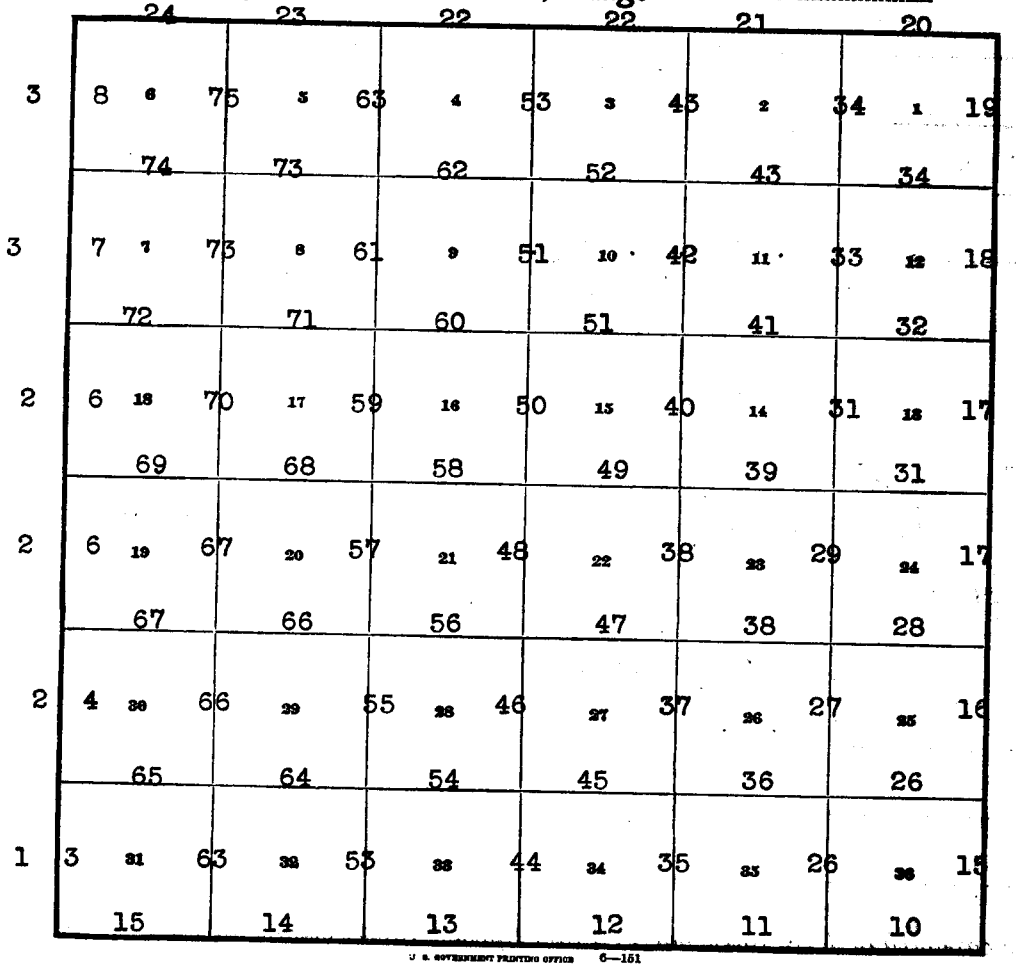
6—151

CF.M.

BOOK A-503

INDEX DIAGRAM.

Township 23 S., *Range* 21 E.



U. S. GOVERNMENT PRINTING OFFICE 6—151

This survey was commenced October 1,1932, and executed with Buff and Buff light mountain transit No.9983, equipped with Smith solar attachment and full vertical circle. Unless otherwise specified all azimuth determinations are accomplished with the solar attachment. The instrument was in good condition, and having been placed in satisfactory adjustment prior to beginning the survey, and tested and found free from appreciable error, was approved by the district cadastral engineer on September 21,1932. I examined the instrumental adjustments before making the field tests hereinafter recorded.

The measurements were made with a Lallie steel ribbon tape 8 chs. in length, graduated every link for the first 100 lks., and thereafter at intervals of 10 lks. The tape was tested by comparison with a Lufkin standard steel tape 1 ch. long and found correct. The measurements were made on the slope, the vertical angle determined with clinometers in good condition, and the slope measurements properly reduced to true horizontal distances which appear in these notes.

The data furnished with the special instructions gives the position of the southeast corner of the township as follows: latitude 38°45½'N.,longitude 109°34'W.

October 1,1932: at the cor. of T.23 S.,Rs. 20 and 21 E. hereinafter described, at 7h. p.m. l.m.t., I observe Polaris at eastern elongation, making four observations, two each with the telescope in direct and reversed positions, and mark the mean point in the line thus determined on a peg, driven firmly in the ground, about 10 chs. N.

October 2,1932: at 6h. am. l.m.t., I lay off the azimuth of Polaris 1°22' to the west and mark the true meridian on a second peg, driven firmly in the ground, about 10 chs. N.

In order to verify the latitude of this station, I make a meridian altitude observation of the sun for latitude, observing the altitude of the sun's lower limb with telescope in direct position, reversing the transit and observing the sun's upper limb:

Mean observed altitude ----------47°32'25"
Reduced latitude ----------38°45'30"

Every 30 minutes, from 7am. to 10:30 am. and from 1:30 pm. to 5:00 pm., I make the proper settings on the arcs of the solar attachment, and ascertain that the resulting orientation of the instrument, when compared with the true meridian established by the Polaris observation has a maximum error of less than 1'30".

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

DEPENDENT RESURVEY OF THE WEST BOUNDARY OF T.23 S.,R.21 E.

REESTABLISHMENT OF THE SURVEYS EXECUTED BY H.D. HEIST AND J.H. WINWOOD, U.S. DEPUTY SURVEYORS IN 1907.

RANDOM LINES

From the cor. of T.23 S.,Rs. 20 and 21 E, hereinafter described.

North, bet. secs. 31 and 36.

39.47 Fall 58 lks. W. of the ¼ sec. cor. for secs. 31 and 36

DEPENDENT RESURVEY OF THE WEST BOUNDARY OF T.23 S.,R.21 E

Chains	
	hereinafter described. Therefore the true bearing of this half mile is N.0°50'E. and the distance is 39.47 chs.
	From the ¼ sec. cor., North, with continuous measurement.
79.61	Fall 5 lks. E. of the cor. of secs. 25,30,31, and 36, hereinafter described
	Therefore the true bearing of this half mile is N.0°04'W. and the distance is 40.14 chs.
	From the cor. of secs. 25,30,31 and 36.
	North, bet. secs. 25 and 30.
40.10	Fall 5 lks. E. of the ¼ sec. cor. for secs. 25 and 30, hereinafter described.
	Therefore the true bearing of this half mile is N.0°04'W. and the distance is 40.10 chs.
	From the ¼ sec. cor., North, with continuous measurement.
80.14	Fall 13 lks. E. of the cor. of secs. 19,24, 25, and 30, hereinafter described.
	Therefore the true bearing of this half mile is N.0°11'W. and the distance is 40.04 chs.
	From the cor. of secs. 19,24,25, and 30.
	North, bet. secs. 19 and 24.
40.00	After diligent search no trace of the ¼ sec. cor. could be found.
80.00	After diligent search no trace of the cor. of secs. 13, 18,19, and 24 could be found. Set temp. cor.
	From the temp. cor. of secs. 13,18,19, and 24.
	North, bet. secs. 13 and 18.
40.45	Fall 4 lks. W. of the ¼ sec. cor. for secs. 13 and 18 hereinafter described.
	Therefore the true bearing from the cor. of secs. 19,24, 25, and 30 to the ¼ sec. cor. bet. secs. 13 and 18 is N.0°01'E., and the proportionate distance for each half mile is 40.15 chs.
	From the ¼ sec. cor. bet. secs. 13 and 18.
	North, with continuous measurement
80.47	Fall 8 lks. W. of the cor. of secs. 7,12,13, and 18, hereinafter described.
	Therefore the true bearing of this half mile is N.0°07'E., and the distance is 40.02 chs.

Chains	
	From the cor. of secs. 7, 12, 13, and 18.
	North, bet. secs. 7 and 12.
40.08	Fall 10 lks. W. of the ¼ sec. cor., for secs. 7 and 12, hereinafter described.
	Therefore the true bearing of this half mile is N.0°09'E., and the distance is 40.08 chs.
	From the ¼ sec. cor., for secs. 7 and 12.
	North, with continuous measurement.
80.21	Fall 12 lks. W. of the cor. of secs. 1, 6, 7 and 12, hereinafter described.
	Therefore the true bearing of this half mile is N.0°10'E., and the distance is 40.13 chs.
	From the cor. of secs., 1, 6, 7, and 12.
	North, bet. secs. 1 and 6.
40.05	Fall 12 lks. W. of the ¼ sec. cor., for secs. 1 and 6, hereinafter described.
	Therefore the true bearing of this half mile is N.0°10'E., and the distance is 40.05 chs.
	From the ¼ sec. cor., for secs. 1 and 6.
	North, with continuous measurement.
83.12	Fall 6 lks. W. of the cor. of Tps. 22 and 23 S., Rs. 20 and 21 E., hereinafter described.
	Therefore the true bearing of this half mile is N.0°05'E., and the distance is 43.07 chs.
	TRUE LINES
	From the cor. of T.23 S., Rs. 20 and 21 E., which is a sandstone 10 x 8 x 6 ins. firmly set, properly mkd. and witnessed as described in the official record.
	N.0°50'E., along E. bdy. of sec. 36.
	Over broken mesa top, through scattering undergrowth. Ascend 100 ft. over SW. slope to
13.30	Top of ridge, divide bet. Salt Valley and Court House Wash, bears SE. and NW. Descend 270 ft. over NE. slope to
39.47	Intersect the orig. ¼ sec. cor., for secs. 31 and 36, which is a sandstone 12x 10x 8 ins. firmly set, properly mkd. and witnessed as described in the official record. This corner now refers to sec. 36 only.
	At the exact corner point
	Set an iron post, 3 ft. long, 1 in. diam., 30 ins. in the ground, for the ¼ sec. cor., for sec. 36 only, with orig. cor. deposited along side, and the brass cap mkd.

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DEPENDENT RESURVEY OF THE WEST BOUNDARY OF T.23 S., R. 21

Chains

¼

S 36

1932

mound of stone, 3 ft. base, 2 ft. high, W. and raise of the cor.

Thence, N.0°04'W., with continuous measurement.

Gradual descent of 30 ft. over E. slope of Salt Valley to the sec. cor.

40.03 Mid-point bet. the cor. of T.23 S., Rs. 20 and 21 E., and the closing corner of secs. 30 and 31, hereinafter described.

Set an iron post, 3 ft. long, 1 in. diam., 30 ins. in the ground, for the ¼ sec. cor., for sec. 31 only, with brass cap mkd.

¼

S 31

1932

of stone, 3 ft. base, 2 ft. high, E. and raise mound of the cor.

45.00 Ungraded road, bears E. and W.

55.00 Fence, 4 barbed wires, bears NE. and SW.

79.61 The cor. of secs. 25, 30, 31, and 36, which is a sandstone 16 x 12 x 3 ins. firmly set, properly mkd. and witnessed as described in the official record. This cor. refers to secs. 25 and 36, only
At the exact corner point

Set an iron post, 3 ft. long, 2 ins. diam., 30 ins. in the ground, with the orig. corner deposited alongside, for the corner of secs. 25 and 36, T. 23 S., R. 20 E., with brass cap mkd.

T23S	T23S
S25	S 31
S36	
R20E	R21E

1932

mound of stone, 3 ft. base, 2 ft. high, W. and raise of the cor.

Land, broken bench and rolling desert.

Soil, loose sandy loam; 2nd rate.

Undergrowth, blackbrush, shadscale and sagebrush.

Fair grazing.

N.0°04'W., along E. bdy. of sec. 25.

Over nearly level bottom of Salt Valley, through scattering undergrowth. Descend 10 ft. to ¼ sec. cor.

0.45 Point for the closing cor. of secs. 30 and 31, hereinafter determined.

Chains	
23.20	Bottom of Salt Valley, wash 10 ft. wide, 2 ft. deep, course SE. Continue over bottom of Salt Valley.
40.10	The orig. ¼ sec. cor., for secs. 25 and 30, which is a sandstone 14 x 8 x 3 ins. firmly set, properly mkd., and witnessed as described in the official record. This corner now refers to sec. 25 only.
	At the exact corner point
	Set an iron post, 3 ft. long, 1 in. diam., 30 ins. in the ground, with the orig. cor. deposited alongside, for the ¼ sec. cor., with brass cap mkd.
	¼ S 25 1932
	and raise a mound of stone, 3 ft. base, 2 ft. high, W. of the cor.
	This corner stands in the corner of wire fence, bearing N.0°30'W., and S.89°00'E.
	Thence
	N.0°11'W., with continuous measurement.
40.295	Mid-point bet. the closing cor. of secs. 30 and 31 and the corner of secs. 19, 24, 25, and 30.
	Set an iron post, 3 ft. long, 1 in. diam., 30 ins. in the ground, for the ¼ sec. cor. for sec. 30 only, with brass cap mkd.
	¼ S 30 1932
	and raise a mound of stone, 3 ft. base, 2 ft. high, E. of the cor.
	Ascend 15 ft. over gradual S. slope to the sec. cor.
80.14	The cor. of secs. 19, 24, 25, and 30, which is a sandstone 12 x 10 x 4 ins., firmly set, properly mkd. and witnessed as described in the official record.
	At the exact corner point
	Set an iron post, 3 ft. long, 2 ins. diam., 30 ins. in the ground, with the orig. cor. deposited alongside, for the cor. of secs. 19, 24, 25, and 30, with brass cap mkd.
	T23S R20E R21E S24 S19 S25 S30 1930
	and raise a mound of stone, 3 ft. base, 2 ft. high, W. of the cor.
	Land, rolling desert.
	Soil, loose sandy loam, 2nd. rate.

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Chains	
	Undergrowth, blackbrush, shadscale and sagebrush.
	Fair grazing.
	N.0°01'E., bet. secs. 19 and 24.
	Over rolling desert land, through scattering undergrowth
	Ascend 10 ft. over gradual S. slope to ¼ sec. cor.
0.10	Ungraded road, bears NW. and SE.
32.00	Small drain, course SW.
40.15	Proportionate point: Set an iron post, 3 ft. long, 1 in. in diam., 30 ins. in the ground, for the ¼ sec. cor., with brass cap mkd.

¼

S 24 | S 19

1932

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

	Continue ascent of 20 ft. over gradual S. slope to sec.co
61.50	Ungraded road, bears E. and W.
67.60	Ungraded road, bears E. and W.
80.30	At proportionate point: Set an iron post, 3 ft. long, 2 ins. diam., 30 ins. in the ground, for the cor. of secs. 13, 18, 19, and 24, with brass cap mkd.

T23S

R20E | R21E

S13 | S18

S24 | S19

1932

stone, 3 ft. base, 2 ft. high; W. of the cor. and raise a mound of

	From this cor. the top of a 10 in. casing of the abandoned Government test well No.24, bears N.9°14'W., 6.88 chs. dist
	Land, rolling desert.
	Soil, loose sandy loam; 2nd rate.
	Undergrowth, blackbrush, sagebrush and shadscale.
	Fair grazing.
	N.0°01'E., bet. secs. 13 and 18.
	Over rolling desert land, through scattering undergrowth.
	Ascend 270 ft. over S. slope to the ¼ sec. cor.
8.00	Foot of abrupt ascent, also enter scattering timber bearing NW. and SE. Ascend over S. slope of ridge.

Chains	
26.80	Ungraded road, bears NW. and SE.
40.15	The orig. ¼ sec. cor., for secs. 13 and 18, which is a sandstone, 14 x 6 x 3 ins. firmly set, properly mkd. and witnessed as described in the official record.
	At the exact corner point
	Set an iron post, 3 ft. long, 1 in. diam., 30 ins. in the ground, with the orig. ¼ sec. cor., deposited alongside, for the ¼ sec. cor., with brass cap mkd.

¼

S 13 | S 18

1932

	Thence
	N.0°07'E., with continuous measurement.
	Continue ascent of 50 ft. over S. slope to
57.30	Top of ridge, bears NW. and SE. Descend 120 ft. over NE. slope to,
80.17	The orig. corner of secs. 7, 12, 13, and 18, which is a sandstone, 14 x 10 x 8 ins. firmly set, properly mkd. and witnessed as described in the official record.
	At the exact corner point
	Set an iron post, 3 ft. long, 2 ins. diam., 30 ins. in the ground, with the orig. corner deposited alongside, for the cor. of secs. 7, 12, 13, and 18, with brass cap mkd.

T23S

R20E | R21E

S12 | S 7

S13 | S18

1932

and raise mound of stone, 3 ft. base, 2 ft. high, W. of the cor.

Land, broken bench.

Soil, loose sandy loam with sandstone surface rock; 3rd rate.

Timber, juniper and pinon.

Undergrowth, blackbrush and sagebrush.

Fair grazing.

	N.0°09'E., bet. secs. 7 and 12.
	Over broken bench land, through scattering timber and undergrowth. Descend 40 ft. over NE. slope to
6.40	Bottom of draw, course NE. Ascend 25 ft. over SW. slope to
17.00	Top of spur, slopes NE. Descend 70 ft. over NW. slope to

Chains	
24.00	Bottom of draw, course NE. Ascend 50 ft. over SE. slope to
40.08	The orig. ¼ sec. cor., for secs. 7 and 12, which is a sandstone 14 x 10 x 4 ins. firmly set, properly mkd. and witnessed as described in the official record.
	At the exact corner point
	Set an iron post, 3 ft. long, 1 in. diam., 30 ins. in the ground, with the orig. corner deposited alongside, for the ¼ sec. cor., with brass cap mkd.

¼

S 12 | S 7

1932

Thence

N.0°10'E., with continuous measurement.

Continue ascent of 10 ft. to

57.30	Top of spur, slopes NE. Descend 170 ft. over NW. slope to
80.21	The orig. corner of secs. 1, 6, 7, and 12, which is a sandstone 14 x 10 x 8 ins. firmly set, properly mkd. and witnessed as described in the official record.
	At the exact corner point
	Set an iron post, 3 ft. long, 2 ins. diam., over X cut in solid rock, with the orig. cor. deposited alongside, and surrounded by mound of stone to the top, for the cor., of secs. 1, 6, 7, and 12, with brass cap mkd.

T23S
R20E R21E
S 1 | S 6
S12 | S 7
1932

Land, broken bench.

Soil, loose sandy loam, with sandstone surface rock; 3rd rate.

Timber, juniper and pinon.

Undergrowth, sagebrush and blackbrush.

Fair grazing.

N.0°10'E., bet. secs. 1 and 6.

Over broken bench land, through scattering timber and undergrowth. Descend 190 ft. over NE. slope to bottom of draw.

1.30	Top of low spur, slopes NE.
31.80	Bottom of draw, course NW. Ascend 40 ft. over SW. slope to
33.90	Top of spur, slopes NW. Descend 70 ft. over NE. slope to

Chains	
40.05	The orig. ¼ sec. cor., for secs. 1 and 6, which is a sandstone 12 x 10 x 8 ins. firmly set, properly mkd. and witnessed as described in the official record. At the exact corner point Set an iron post, 3 ft. long, 1 in. diam., 30 ins. in the ground, with the orig. cor. deposited alongside, for the ¼ sec. cor., with brass cap mkd. ¼ S 1 | S 6 1932 Thence N.0°05'E., with continuous measurement.
42.20	Bottom of draw, course NW.
45.70	Bottom of same draw, course NE.
49.32	Point for the closing cor. of Tps. 22 and 23 S., R. 21 E., hereinafter determined.
52.80	Bottom of draw, course E. Ascend 50 ft. over S. slope to
63.70	Top of spur, slopes E. Descend 50 ft. over N. slope to township cor.
70.00	Leave scattering timber bears E. and W.
83.12	The orig. cor. of Tps. 22 and 23 S., Rs. 20 and 21 E., which is a volcanic rock, 18 x 10 x 6 ins. properly mkd. firmly set and witnessed as described in the official record. This cor. now refers to Tps.22 and 23 S.,R.20 E., only. At the exact corner point Set an iron post, 3 ft. long, 3 ins. diam., 30 ins. in the ground, with the orig. corner deposited alongside, for the cor. of Tps. 22 and 23 S., R. 20 E., with brass cap mkd. T22S R20E S36 | T22S S 31 S 1 | R21E T23S 1932 mound of stone 3 ft. base, 2 ft. high and raise W. of the cor. Land, broken bench. Soil, loose sandy loam with sandstone surface rock; 3rd rate. Timber, juniper and pinon. Undergrowth, sagebrush, blackbrush and shadscale. Poor grazing.

SURVEY OF THE SOUTH BOUNDARY OF T. 23 S., R. 21 E.

Chains

From the cor. of T. 23 S., Rs. 20 and 21 E., heretofore described.

East, on the S. bdy. of T. 23 S., R. 21 E., for alinement only. Intersect the E. bdy., 7.05 chs. South of the ¼ sec. cor., for secs. 31 and 36, hereinafter described.

At point of intersection

Set an iron post, 3 ft. long, 3 ins. diam., over X cut in solid surface rock and surrounded by mound of stone to the top, for the closing corner of Tps. 23 and 24 S., R. 21 E., with brass cap mkd.

	T23S R21E S 36	T23S
CC	→	S 31
	S 1 T24S 1932	R22E

from which

A pinon, 12 ins. diam., bears S.62°00'W., 141 lks. dist., mkd. T 24 S R 21 E S 1 C C B T.

A pinon, 12 ins. diam., bears N.46°45'W., 98 lks. dist., mkd. T 23 S R 21 E S 36 C C B T.

Thence

West, bet. secs. 1 and 36.

Over broken bench land through scattering timber and undergrowth. Ascend 40 ft. over gradual NE. slope to

40.00 Set an iron post, 3 ft. long, 1 in. diam., over X cut in solid surface rock and surrounded by mound of stone to the top for the ¼ sec. cor., with brass cap mkd.

¼ S 36 / S 1
1932

from which

A pinon, 6 ins. diam., bears N.65°00'E., 71 lks. dist., mkd. ¼ S 36 B T.

A juniper, 8 ins. diam., bears S.42°30'E., 25 lks. dist., mkd. ¼ S 1 B T.

Continue ascent of 140 ft. over gradual NE. slope to

80.00 Set an iron post, 3 ft. long, 2 ins. diam., 10 ins. in the ground to solid rock, and surrounded by mound of stone to the top, for the cor. of secs. 1, 2, 35, and 36, with brass cap mkd.

T23S R21E S35	S36
S 2	S 1
T24S 1932	

from which

Chains	
	A pinon, 8 ins. diam., bears N.46°00'E., 27 lks. dist., mkd. T 23 S R 21 E S 36 B T.
	A pinon, 6 ins. diam., bears S.11°15'E., 113 lks. dist., mkd. T 24 S R 21 E S 1 B T.
	A pinon, 5 ins. diam., bears S.62°45'W., 132 lks. dist., mkd. T 24 S R 21 E S 2 B T.
	A pinon, 4 ins. diam., bears N.46°45'W., 134 lks. dist., mkd. T 23 S R 21 E S 35 B T.
	Land, broken bench.
	Soil, loose sandy loam with exposed surface sandstone; 3rd rate.
	Timber, juniper and pinon.
	Undergrowth, buckbrush.
	Poor grazing.
	West, bet. secs. 2 and 35
	Over broken bench land through scattering timber and undergrowth. Ascend 160 ft. over gradual NE. slope, over sandstone surface rock, to the ¼ sec. cor.
15.40	Leave surface rock, bearing NW. and SE.
40.00	Set an iron post, 3 ft. long, 1 in. diam., 4 ins. in the ground to solid rock and surrounded by mound of stone to the top, for the ¼ sec. cor., with brass cap mkd.

¼ S 35 / S 2
1932

from which

	A pinon, 6 ins. diam., bears S.36°30'E., 109 lks. dist., mkd. ¼ S 2 B T.
	A pinon, 6 ins. diam., bears N.71°00'W., 77 lks. dist., mkd. ¼ S 35 B T.
42.30	Top of ridge, bears N. and S. Descend 70 ft. over W. slope to the sec. cor.
56.20	Enter smooth rounded red sandstone domes and pinnacles, bearing NW. and SE.
80.00	Set an iron post, 3 ft. long, 2 ins. diam., over X cut in solid rock and surrounded by mound of stone to the top for the cor. of secs. 2, 3, 34, and 35, with brass cap mkd.

T23S R21E
S34 | S35 /
S 3 | S 2
T24S
1932

from which

Chains	
	A juniper, 4 ins. diam., bears S.76°00'E., 118 lks. dist., mkd. T 24 S R 21 E S 2 B T.
	A pinon, 10 ins. diam., bears S.9°00'W., 149 lks. dist., mkd. T 24 S R 21 E S 3 B T.
	A pinon, 4 ins. diam., bears N.80°30'W., 75 lks. dist., mkd. T 23 S R 21 E S 34 B T.
	No suitable bearing tree in sec. 35.
	Land, broken bench.
	Soil, loose shallow sandy loam with exposed surface rock; 3rd rate.
	Timber, juniper and pinon.
	Undergrowth, sagebrush and buck brush.
	Poor grazing.
	West, bet. secs. 3 and 34.
	Over broken bench land, through scattering undergrowth and timber. Descend 130 ft. over W. slope of surface rock, to the ¼ sec. cor. Over sandstone domes and pinnacle
9.30	Top of small sandstone dome.
9.50	Leave sandstone domes and pinnacles, bearing NW. and SE.
31.80	Top of sandstone rim, 75 ft. high, bears NE. and SW.
40.00	Set an iron post, 3 ft. long, 1 in. diam., 14 ins. in the ground to solid rock and surrounded by mound of stone to the top, for the ¼ sec. cor., with brass cap mkd.

¼ S 34 / S 3
1932

from which

	A juniper, 4 ins. diam., bears S.20°00'E., 55 lks. dist., mkd. ¼ S 3 B T.
	A juniper, 5 ins. diam., bears N.8°30'W., 85 lks. dist., mkd. ¼ S 34 B T.
	Continue descent of 210 ft. to
57.10	Bottom of draw, course SW. Ascend 50 ft. over SE. slope to
80.00	Set an iron post, 3 ft. long, 2 ins. diam., 10 ins. in the ground to solid rock and surrounded by mound of stone to the top, for the cor. of secs. 3, 4, 33, and 34, with brass cap mkd.

T23S R21E
S33 | S34
S 4 | S 3
T24S
1932

from which

Chains	
	A pinon, 3 ins. diam., bears N.57°00'E., 242 lks. dist., mkd. T 23 S R 21 E S 34 B T.
	A juniper, 3 ins. diam., bears S.25°00'E., 135 lks. dist., mkd. B T.
	A juniper, 3 ins. diam., bears S.22°00'W., 119 lks. dist., mkd. B T.
	A juniper, 4 ins. diam., bears N.12°30'W., 263 lks. dist., mkd T 23 S R 21 E S 33 B T.
	Land, broken bench.
	Soil, loose shallow sandy loam with exposed sandstone surface rock; 3rd rate.
	Timber, juniper and pinon.
	Undergrowth, blackbrush.
	Poor grazing.
	West, bet. secs. 4 and 33.
	Over broken bench land through scattering timber and undergrowth. Ascend 30 ft. over E. slope to
11.20	Top of spur, slopes S. Descend 90 ft. over W. slope to.
40.00	Set an iron post, 3 ft. long, 1 in. diam., 30 ins. in the ground for the ¼ sec. cor., with brass cap mkd.

¼ S 33 / S 4
1932

from which

A juniper, 3 ins. diam., bears N.54°30'E., 213 lks. dist., mkd. B T.

A juniper, 4 ins. diam., bears S.65°45'E., 116 lks. dist., mkd. ¼ S 4 B T.

	Continue descent of 60 ft. to bottom of draw.
48.00	Leave timber bearing N. and S.
67.80	Bottom of draw, course S. Ascend 40 ft. over E. slope to
70.00	Top of spur, slopes S. Descend 20 ft. over W. slope to
75.20	Bottom of draw, course S. Ascend 40 ft. over E. slope to
80.00	Set an iron post, 3 ft. long, 2 ins. diam., 30 ins. in the ground, for the cor. of secs. 4, 5, 32, and 33, with brass cap mkd.

T23S | R21E
S32 | S33
S 5 | S 4
T24S
1932

and raise mound of stone, 3 ft. base, 2 ft. high, W. of the cor.

Land, broken bench.

SURVEY OF THE SOUTH BOUNDARY OF T.23 S., R. 21 E.

Chains Soil, loose sandy loam; 3rd rate.

Timber, juniper and pinon.

Undergrowth, black brush.

Fair grazing.

West, bet. secs. 5 and 32

Over broken bench land through scattering undergrowth.

Ascend 80 ft. over E. slope to top of ascent.

5.46 Frame house 16 x 20 ft. (1) bears N.47°57'W.
Frame house 16 x 20 ft. (2) bears N.49°10'W. These houses are the property of the U.S.Potash Co.

26.90 Top of ascent bears N. and S. Also ungraded road, bears N. and S. Descend 30 ft. over SW. slope to ¼ sec. cor.

27.85 House No.1 bears N.4°21'W.
House No.2 bears N.3°53'W.
Center of 4 in. casing, the abandoned oil well of the U.S. Potash Co. bears N.38°19'W., 3.69 chs. dist.

40.00 Set an iron post, 3 ft. long, 1 in. diam., 30 ins. in the ground, for the ¼ sec. cor., with brass cap mkd.

$$\frac{1}{4}\ \frac{S\ 32}{S\ 5}$$
1932

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

Continue descent of 30 ft. over SW. slope to

66.40 Bottom of Salt Valley, wash, course SE. Ascend 30 ft. over NE. slope to sec. cor.

80.00 True point for the cor. of secs. 5, 6, 31, and 32, falls in bottom of small wash, draining SE. Impracticable to set cor.

80.15 Set an iron post, 3 ft. long, 2 ins. diam., 30 ins. in the ground, for the cor. of secs. 5, 6, 31, and 32, with brass cap mkd. witness

T23S R21E
S31 | S 32
S 6 | S 5 WC
T24S
1932

mound of stone, 3 ft. base, 2 ft. high, and raise W. of the cor.

Land, rolling valley.

Soil, loose sandy loam; 2nd rate.

Undergrowth, black brush, sage brush and shadscale.

Fair grazing.

Chains	
	West, bet. secs. 6 and 31. From true point for sec. cor., which is E. 0.15 chs. dist. from W.C. to secs. 31 and 32, over rolling valley land, through scattering undergrowth.
	Ascend 320 ft. over E. slope to top of divide.
22.70	Fence, 4 barbed wires, bears N.40°00'E., and S.40°00'W.
29.50	Foot of abrupt ascent bears NW. and SE. Ascend over series of sandstone ledges on NE. slope. Enter scattering timber bearing NW. and SE.
40.00	Set an iron post, 3 ft. long, 1 in. diam., 15 ins. in the ground to solid rock and surrounded by mound of stone to the top, for the ¼ sec. cor., with brass cap mkd.

$$\frac{1}{4}\ \frac{S\ 31}{S\ 6}$$
1932

from which

A juniper, 3 ins. diam., bears N.5°00'E., 19 lks. dist., mkd. B T.

A juniper, 3 ins. diam., bears S.89°00'W., 32 lks. dist., mkd. B T.

44.00	Top of divide bet. Court House Wash and Salt Valley, bears NW. and SE. Descend 90 ft. over SW. slope to
56.42	The corner of T. 23 S., Rs. 20 and 21 E., heretofore described.

Land, rolling valley and broken bench.

Soil, loose sandy loam and exposed surface rock; 3rd rate.

Timber, juniper and pinon.

Undergrowth, sagebrush, black brush and shadscale.

Fair grazing.

ESTABLISHMENT OF SEC. AND ¼ SEC. CORS. ON E. BDY. T. 23 S., R. 21 E.
RESURVEY

From the cor. of Tps. 23 and 24 S., Rs. 21 and 22 E., which is an iron post, 3 ins. diam., firmly set, properly mkd. and witnessed as described in the official record. I deface all markings on the iron post and bearing tree that refers to T. 23 S., R. 21 E. This corner now refers to Ts. 23 and 24 S., R. 22 E. only.

North, along west boundary of sec. 31.

Note: for topography see the official field notes of T. 23 S., R. 22 E.

32.95	The closing cor. of Tps. 23 and 24 S., R. 21 E., heretofore described.
40.00	The orig. ¼ sec. cor., for secs. 31 and 36, which is an iron post, 1 in. diam., firmly set, properly mkd. and witnessed as described in the official record. I deface all marking on this post and the bearing tree referring to sec. 36. This cor. now refers to sec. 31 only. I mark new bearing tree as follows

A juniper, 10 ins. diam., bears N.50°45'E., 131 lks.

Chains

dist., mkd. ¼ S 31 B T.

72.95 Northing of 40. 00 chs. from the closing cor. of Tps. 23 and 24 S., R. 21 E.

Set an iron post, 3 ft. long, 1 in. diam., 30 ins. in the ground, for the ¼ sec. cor., for sec. 36 only with brass cap mkd.

¼
S 36
1932

from which

A juniper, 6 ins. diam., bears S.55°00'W., 62 lks. dist., mkd. ¼ S 36 B T.

A juniper, 10 ins. diam., bears S.82°30'W., 154 lks. dist., mkd. ¼ S 36 B T.

80.00 The orig. cor. of secs. 25, 30, 31, and 36, which is an iron post, 2 ins. diam., firmly set, properly mkd. and witnessed as described in the official record. I deface all marking on this post that refer to T. 23 S. R. 21 E., and the corner now refers to T. 23 S., R. 22 E. secs. 30 and 31, only.

North, along the west boundary of sec. 30.

32.95 Northing of 80.00 chs. from the closing cor. of Tps. 23 and 24 S., R. 21 E.

Set an iron post, 3 ft. long, 2 ins. diam., 18 ins. in the ground to solid rock and deposited sandstone 10 x 8 x 6 ins. mkd. X at the base and surrounded by mound of stone to the top, for the cor. of secs. 25 and 36, with brass cap mkd.

T23S
S25 | T23S
S 30
S36 | R22E
R21E
1932

No other suitable accessories available.

40.00 The orig. ¼ sec. cor., for secs. 25 and 30, which is an iron post, 1 in. diam., firmly set, properly mkd. and witnessed as described in the official record. I deface all markings on this corner that refer to sec. 25, and the corner now refers to sec. 30 only.

72.95 Northing of 40.00 chs. from the cor. of secs. 25 and 36,

Set an iron post, 3 ft. long, 1 in. diam., 30 ins. in the ground for the ¼ sec. cor., for sec. 25 only, with brass cap mkd.

¼
S 25
1932

and raise mound of stone, 3 ft. base, 2 ft. high, W. of the cor.

Chains

80.00 The orig. corner of secs. 19, 24, 25, and 30, which is an iron post, 2 ins. diam., firmly set, properly mkd. and witnessed as described in the official record. I deface all markings on the iron post and bearing trees that refer to T. 23 S., R. 21 E. This corner now refers to secs. 19 and 30, T. 23 S., R. 22 E., only.

North, along the west boundary of sec. 19.

32.95 Northing of 80.00 chs. from the corner of secs. 25 and 36.

Set an iron post, 3 ft. long, 2 ins. diam., 30 ins. in the ground, for the cor. of secs. 24 and 25 only, with brass cap mkd.

T23S
S24 | T23S
S19
S25 | R22E
R21E
1932

from which

A juniper, 3 ins. diam., bears N.86°00'W., 188 lks. dist., mkd. B T.

A juniper, 8 ins. diam., bears S.26°30'W., 497 lks. dist., mkd. T. 23 S R 21 E S 25 B T.

40.00 The orig. ¼ sec. cor., for secs. 19 and 24, which is an iron post, 1 in. diam., firmly set, properly mkd. and witnessed as described in the official record. I deface all markings on the iron post and bearing tree that refer to sec. 24. This corner now refers to sec. 19 only.

72.95 Northing of 40.00 chs. from the cor. of secs. 24 and 25.

Set an iron post, 3 ft. long, 1 in. diam., 30 ins. in the ground for the ¼ sec. cor., for sec. 24 only, with brass cap mkd.

¼
S 24 |
1932

from which

A cottonwood, 14 ins. diam., bears S.74°45'W., 125 lks. dist., mkd. ¼ S 24 B T.

A cottonwood, 16 ins. diam., bears S.14°15'W., 170 lks. dist., mkd. ¼ S 24 BT.

80.00 True point for the orig. corner of secs. 13, 18, 19, and 24, which is a X cut in the solid surface rock. S.89°53'E., 3.04 chs. dist., is the witness cor. of secs. 13, 18, 19 and 24, which is an iron post, 2 ins. diam., firmly set, properly mkd. and witnessed as described in the official record. I deface all markings on this post that refer to T. 23 S., R. 21 E. This is now the witness cor. of secs. 18 and 19 T. 23 S., R. 22 E., only.

North, along the west boundary of sec.18.

32.95 Northing of 80.00 chs. from the cor. of secs. 24 and 25.

Chains

Set an iron post, 3 ft. long, 2 ins. diam. over X cut in solid surface rock, and surrounded to the top in a mound of stone, for the cor. of secs. 13 and 24, only, with brass cap mkd.

T23S
S13 | T23S
S 18
S24 | R22E
R21E
1932

from which

A juniper, 4 ins. diam., bears S.82°00'W., 84 lks. dist., mkd. T 23 S R 21 E S 24 B T.

A juniper, 3 ins. diam., bears N.44°30'W., 70 lks. dist., mkd. B T.

40.00 The orig. ¼ sec. cor., for secs. 13 and 18, which is an iron post, 1 in. dia., firmly set, properly mkd. and witnessed as described in the official record. I deface all markings on the iron post and bearing tree referring to sec. 13. This cor. now refers to sec. 18 only. Also

A juniper, 3 ins. diam., bears N.37°30'E., 125 lks. dist., mkd. B T.

72.95 Northing of 40.00 chs. from the cor. of secs. 13 and 24.

Set an iron post, 3 ft. long, 1 in. diam., 10 ins. in the ground to solid rock, and deposited a sandstone 10 x 8 x 4 ins. mkd. X at the base, and surrounded to the top in a mound of stone, for the ¼ sec. cor., for sec. 13 only, with brass cap mkd.

¼
S 13
1932

No other suitable accessories available.

80.00 The orig. corner. of secs. 7, 12, 13, and 18, which is an iron post, 2 ins. diam., firmly set, properly mkd. and witnessed as described in the official record. I deface all markings on the iron post and bearing tree that refer to T. 23 S., R. 21 E. This corner now refers to secs. 7 and 18, T. 23 S., R. 22 E.

North, along the west boundary of sec. 7.

32.95 Northing of 80.00 chs. from the cor. of secs. 13 and 24.

Set an iron post, 3 ft. long, 2 ins. diam., 30 ins. in the ground, for the cor. of secs. 12 and 13 only, with brass cap mkd.

T23S
S12 | T23S
S 7
S13 | R22E
R21E
1932

and raise mound of stone, 3 ft. base, 2 ft. high, W. of the cor.

Chains

40.00 The orig. ¼ sec.cor., for secs. 7 and 12, which is an iron post, 1 in. diam., firmly set, properly mkd. and witnessed as described in the official record. I deface all markings on this post referring to sec. 12, This corner now refers to sec. 7 only.

Note: From the ¼ sec.cor. for sec. 7, north on a random line: at 40.00 chs. find no tracee of original cor. for secs. 1,6,7, and 12, and at 80.33 chs. intersect the witness ¼ sec.cor. for secs. 1 and 6, hereinafter described, which is 33 lks. north of true cor. point. Therefore the true bearing of this line is north, and the distance is 40.00 chs. for each one half mile.

Thence, from ¼ sec.cor. for sec. 7, north with continuous measurement.

72.95 Northing of 40.00 chs. from the cor. of secs. 12 and 13.

Set an iron post, 3 ft. long, 1 in. diam., 12 ins. in the ground to solid rock, with sandstone 6 x 4 x 4 ins. mkd. X, deposited at the base, and surrounded to the top in a mound of stone, for the ¼ sec.cor., for sec. 12 only, with brass cap mkd.

¼ |
S 12 |
1932

No other suitable accessories available.

78.00 Set an iron post, 3 ft. long, 2 ins. diam., 8 ins. in the ground to solid rock, with sandstone 8 x 6 x 4 ins.mkd. X, deposited at the base, and surrounded by a mound of stone to the top, for the witness corner of secs. 6 and 7, T.23 S., R.22 E., with brass cap mkd.

WC
T23S | T23S
S12 | S 6
R21E | S 7
R22E
1932

No other suitable accessories available.

80.00 True point for the orig. cor. of secs. 1,6,7, and 12, now falls in the bottom of Salt Wash, and the orig. cor. has been washed away.

North, along the west boundary of sec. 6.

32.95 Northing of 80.00 chs. from the cor. of secs. 12 and 13.

Set an iron post, 3 ft. long, 2 ins. diam., 30 ins. in the ground, for the cor. of secs. 1 and 12, only, with brass cap mkd.

T23S
S 1 | T23S
S 6
S12 | R22E
R21E
1932

and raise mound of stone 3 ft. base, 2 ft. high, W. of the cor.

40.00 True point for the ¼ sec.cor., west boundary of sec. 6.

ESTABLISHMENT OF SEC. AND ¼ SEC.CORS. ON THE E. BDY. OF T.23 S.,

Chains	
40.33	The orig. witness ¼ sec.cor., for secs. 1 and 6, which is an iron post, 1 in.diam., firmly set, properly mkd. and witnessed as described in the official record. I deface all markings on this post that refers to sec.1. This cor now refers to sec. 6 only.
72.95	Northing of 40.00 chs. from the cor. of secs. 1 and 12.
	Set an iron post,3 ft.long, 1 in.diam.,30 ins.in the grou for the ¼ sec. cor.,for sec. 1 only, with brass cap mkd.
	¼ | S 1 | 1932
	and raise mound of stone,3 ft.base,2 ft.high, W. of the c
82.78	The orig.closing cor. of T.23 S.,Rs.21 and 22 E.,which is an iron post, 3 ins. diam., firmly set, properly mkd. and witnessed as described in the official record.

SURVEY OF THE NORTH BOUNDARY OF T. 23 S.,R. 21 E.

	From the cor. of T.22 S., Rs. 21 and 22 E., which is an iron post, 3 ins. diam., firmly set, properly mkd. and witnessed as described in the official record.
	West, on true line on the S. bdy. of sec. 36.
	Over broken bench land through scattering undergrowth.
31.87	The closing cor. of T.23 S.,Rs.21 and 22 E., heretofore described.
	Ascend 15 ft. over SE. slope to top of spur.
40.00	Set an iron post,3 ft.long,1 in.diam.,10 ins.in the ground to solid rock, with sandstone 8 x 6 x 4 ins. mkd. X, depos ited at the base and surrounded by mound of stone to the top,for the ¼ sec.cor.,for sec.36 only, with brass cap mkd
	¼ S 36 / 1932
	No other suitable accessories available.
44.60	Top of spur, slopes S. Descend 70 ft. over W. slope to
60.40	Bottom of draw, course S. Ascend 110 ft. over E. slope to top of spur.
71.87	Mid-point bet. the closing cors. of T.23 S.,Rs.21 and 22 E and of secs. 1 and 2, subsequently at this point:
	Set an iron post,3 ft.long,1 in.diam.,30 ins.in the ground for the ¼ sec.cor., for sec. 1 only, with brass cap mkd.
	¼ S 1 / 1932
	and raise mound of stone,3 ft.base,2 ft.high, S.of the cor.
78.60	Top of spur, slopes S.
80.00	Set an iron post, 3 ft. long, 2 ins. diam., over X cut in solid rock, and surrounded by mound of stone to the top, for the cor. of secs. 35 and 36, with brass cap mkd.

Chains	
	T22S | R21E S35 | S36 1932
	No other suitable accessories available.
	Land, broken bench.
	Soil, loose sandy clay loam; 2nd rate.
	Undergrowth, shadscale.
	Poor grazing.
	West, on true line along S. bdy of sec. 35.
	Over broken bench land, through scattering undergrowth. Descend 40 ft. over SW. slope to
7.50	Bottom of draw, course S. Ascend 110 ft. over E. slope to
11.90	Top of ridge, bears NE. and SW. Descend 160 ft. over NW. slope to
31.87	Point for the closing cor. of secs. 1 and 2, hereinafter described.
	Thence over nearly level desert land.
40.00	Set an iron post, 3 ft. long, 1 in. diam., 30 ins. in the ground, for the ¼ sec. cor, for sec. 35 only, with brass cap mkd. ¼ S 35 1932 and raise mound of stone, 3 ft. base, 2 ft. high, N. of the cor.
55.00	Wash, course S.
71.81	Mid-point bet. the closing cors. of secs. 1 and 2, and secs. 2 and 3, subsequently at this point:
	Set an iron post, 3 ft. long, 1 in. diam., 30 ins. in the ground, for the ¼ sec. cor., for sec. 2 only, with brass cap mkd. ¼ S 2 1932 and raise mound of stone, 3 ft. base, 2 ft. high, S. of the cor.
80.00	Set an iron post, 3 ft. long, 2 ins. diam., 30 ins. in the ground, for the cor. of secs. 34 and 35, with brass cap mkd. T22S | R21E S34 | S35 1932 and raise mound of stone, 3 ft. base, 2 ft. high, N. of the cor.
	Land, broken bench.

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Chains	
	Soil, loose sandy and clay loam; 2nd and 3rd rate.
	Undergrowth, shadscale and sage brush.
	Poor grazing.
	West, along S. bdy. of. sec. 34.
	Over rolling desert land through scattering undergrowth.
8.50	Bottom of wash, course S.
31.75	Point for the closing cor. of secs. 2 and 3, hereinafter described.
40.00	Set an iron post, 3 ft. long, 1 in. diam., 30 ins. in the ground, for the ¼ sec. cor., for sec. 34 only with brass cap mkd. ¼ S 34 1932 and raise mound of stone, 3 ft. base, 2 ft. high, N. of the cor.
	Gradual ascent of 50 ft. over E. slope to
63.70	Top of low spur, slopes S. Descend 10 ft. over W. slope to sec. cor.
71.785	Mid-point bet. the closing cors. of secs. 2 and 3, and secs. 3 and 4, subsequently at this point:
	Set an iron post, 3 ft. long, 1 in. diam., 30 ins. in the ground, for the ¼ sec. cor., for sec. 3 only, with brass cap mkd. ¼ S 3 1932 and raise mound of stone, 3 ft. base, 2 ft. high, S. of the cor.
80.00	Set an iron post, 3 ft. long, 2 ins. diam., 30 ins. in the ground, for the cor. of secs. 33 and 34 only, with brass cap mkd. T22S | R21E S33 | S34 1932 and raise mound of stone, 3 ft. base, 2 ft. high, N. of the cor.
	Land, rolling desert land.
	Soil, loose sandy and clay loam; 2nd and 3rd rate.
	Undergrowth, shadscale and sagebrush.
	Fair grazing.
	West, along the S. bdy. of sec. 33.
	Over nearly level desert land through scattering undergrowth.

Chains	
22.60	Bottom of shallow draw, course SE.
31.82	Point for the closing cor. of secs. 3 and 4, hereinafter described.
40.00	Set an iron post, 3 ft. long, 1 in. diam., 30 ins. in the ground, for the ¼ sec. cor., for sec. 33 only, with brass cap mkd. ¼ S 33 1932 and raise mound of stone, 3 ft. base, 2 ft. high, N. of the cor.
72.01	Mid-point bet. the closing cors. of secs. 3 and 4, and sec. 4 and 5, subsequently at this point: Set an iron post, 3 ft. long, 1 in. diam., 30 ins. in the ground, for the ¼ sec. cor., for sec. 4 only, with brass cap mkd. ¼ S 4 1932 and raise mound of stone, 3 ft. base, 2 ft. high, S. of the cor.
80.00	Set an iron post, 3 ft. long, 2 ins. diam., 30 ins. in the ground, for the cor. of secs. 32 and 33 only, with brass cap mkd. T22S | R21E S32 | S33 1932 and raise mound of stone, 3 ft. base, 2 ft. high, N. of the cor.
	Land, nearly level desert.
	Soil, loose sandy and clay loam; 2nd rate.
	Undergrowth, shadscale and sagebrush.
	Fair grazing.
	West, along the S. bdy. of sec. 32.
	Over nearly level desert land, through scattering undergrowth.
32.20	Point for the closing cor. of secs. 4 and 5, hereinafter described.
40.00	Set an iron post, 3 ft. long, 1 in. diam., 30 ins. in the ground, for the ¼ sec. cor., for sec. 32 only, with brass cap mkd. ¼ S 32 1932 and raise mound of stone, 3 ft. base, 2 ft. high, N. of the cor.

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Chains	
	Continue over nearly level desert land.
72.00	Mid-point bet. the closing cors. of secs. 4 and 5, and secs. 5 and 6, subsequently at this point: Set an iron post, 3 ft. long, 1 in. diam., 20 ins. in the ground to solid rock, and surrounded to the top in a mound of stone, for the ¼ sec. cor., for sec. 5 only, with brass cap mkd. ¼ S 5 1932 and raise mound of stone, 3 ft. base, 2 ft. high, S. of the cor.
80.00	Set an iron post, 3 ft. long, 2 ins. diam., 20 ins. in the ground to solid rock, and surrounded by mound of stone to the top, for the cor. of secs. 31 and 32 only, with brass cap mkd. T22S | R21E S31 | S32 1932 and raise mound of stone, 3 ft. base, 2 ft. high, N. of the cor.
	Land, nearly level desert. Soil, loose sandy loam; 2nd rate. Undergrowth, shadscale and sagebrush. Fair grazing.
	West, along the S. bdy. of sec. 31. Over broken bench land, through scattering undergrowth. Ascend 120 ft. over E. slope to top of spur.
31.80	Point for the closing cor. of secs. 5 and 6, hereinafter described.
36.70	Top of spur, slopes SE. Descend 50 ft. over SW. slope to bottom of Yellow Cat Wash.
40.00	Set an iron post, 3 ft. long, 1 in. diam., 6 ins. in the ground to solid rock, with sandstone 8 x 6 x 4 ins. mkd. X deposited at the base, and surrounded by mound of stone to the top, for the ¼ sec. cor., for sec. 31 only, with brass cap mkd. ¼ S 31 1932 No other suitable accessories available.
44.40	Bottom of Yellow Cat Wash, course SE. Enter scattering timber bearing N. and S. Ascend 50 ft. over NE. slope to
67.80	Top of spur, slopes SE. Descend 30 ft. over SW. slope to bottom of draw.
71.80	Westing of 40.00 chs. from the closing cor. of secs. 5 and 6.

Chains	
	Set an iron post, 3 ft. long, 1 in. diam., 10 ins. in the ground to solid rock, and surrounded by mound of stone to the top, for the ¼ sec. cor., for sec. 6 only, with brass cap mkd. ¼ S 6 1932 from which A juniper, 3 ins. diam., bears S.12°30'E., 59 lks. dist., mkd. B T. A juniper, 3 ins. diam., bears S.39°00'W., 69 lks. dist., mkd. B T.
80.00	Set an iron post, 3 ft. long, 1 in. diam., 12 ins. in the ground to solid rock, and surrounded by mound of stone to the top, for the cor. of lots. 7 and 8, sec. 31, with brass cap mkd. S 31 7 8 1932 from which A juniper, 3 ins. diam., bears N.19°00'E., 130 lks. dist., mkd. B T. A juniper, 3 ins. diam., bears N.10°00'W., 124 lks. dist., mkd. B T.
86.30	Bottom of draw, course SE. Leave timber bears N. and S.
87.11	Intersect the E. bdy. of T.23 S., R.20 E., N.0°05'E., 9.27 chs. dist. from the ¼ sec. cor., for secs. 1 and 6, heretofore described. At point of intersection Set an iron post, 3 ft. long, 3 ins. diam., 30 ins. in the ground, for the closing cor. of Tps. 22 and 23 S., R. 21 E., with brass cap mkd. T22S R21E S31 T23S S 1 R20E — CC — S 6 T23S 1932 and raise mound of stone, 4 ft. base, 3 ft. high, E. of the cor. Land, broken bench. Soil, loose sandy loam, with sandstone surface rock; 2nd rate. Timber, juniper and pinon. Undergrowth, shadscale and sagebrush. Fair grazing.

SUBDIVISION OF T.23 S., R. 21 E.

Chains From the cor. of secs. 1, 2, 35, and 36, on the S. bdy. heretofore described.

N.0°01'W., bet. secs. 35 and 36.

Over broken bench land through scattering timber and undergrowth. Descend 120 ft. over NE. slope to

40.00 Set an iron post, 3 ft. long, 1 in. diam., over X cut in solid surface rock, and surrounded by mound of stone to the top, for the ¼ sec. cor., with brass cap mkd.

S 35 | S 36

1932

from which

A pinon, 6 ins. diam., bears N.73°00'E., 64 lks. dist., mkd. ¼ S 36 B T.

A pinon, 7 ins. diam., bears S.89°00'W., 40 lks. dist., mkd. ¼ S 35 B T.

Continue descent of 105 ft. to the sec. cor.

42.80 Low spur, slopes NE.

80.00 Set an iron post, 3 ft. long, 2 ins. diam., over X cut in solid surface rock, and surrounded to the top in a mound of stone, for the cor. of secs. 25, 26, 35, and 36, with brass cap mkd.

T23S R21E

S26 | S25

S35 | S36

1932

from which

A pinon, 3 ins. diam., bears N.3°00'E., 70 lks. dist., mkd. B T.

A pinon, 6 ins. diam., bears S.31°00'E., 49 lks. dist., mkd. T 23 S R 21 E S 36 BT.

A pinon, 3 ins. diam., bears S.80°00'W., 43 lks. dist., mkd. B T.

A pinon, 6 ins. diam., bears N.49°00'W., 134 lks. dist., mkd. T 23 S R 21 E S 26 B T.

Land, broken bench.

Soil, loose sandy loam and exposed surface sandstone; 3rd rate.

Timber, juniper and pinon.

Undergrowth, buck and black brush.

Fair grazing.

East, on random line bet. secs. 25 and 36.

40.00 Set temp. ¼ sec. cor.

Chains	
79.92	Intersect the east bdy., 3 lks. S. of the cor. of secs. 25 and 36, heretofore described.
	Thence
	S.89°59'W., on true line bet. secs. 25 and 36.
	Over broken bench land, through scattering undergrowth. Descend 30 ft. over NW. slope, to
11.70	Bottom of draw, course NE. Ascend 120 ft. over SE. slope to top of spur.
37.70	Enter scattering timber bears NW. and SE.
39.96	Set an iron post, 3 ft. long, 1 in. diam., 30 ins. in the ground, for the ¼ sec. cor., with brass cap mkd.
	¼ S 25 / S 36 1932
	from which
	A juniper, 4 ins. diam., bears N.58°00'E., 120 lks., dist., mkd. ¼ S 25 BT.
42.20	Top of spur, slopes NE. Descend 30 ft. over NW. slope to bottom of draw.
51.40	Thence over surface rock, bearing NE. and SW.
55.80	Bottom of draw, course NE. Ascend 100 ft. over SE. slope to top of spur.
60.20	Leave surface rock, bears NE. and SW.
71.10	Top of spur, slopes NE. Descend 40 ft. over NW. slope to sec. cor.
72.90	Over surface rock, bearing NE. and SW.
79.92	The cor. of secs. 25, 26, 35, and 36.
	Land, broken bench.
	Soil, loose sandy loam and surface sandstone; 3rd rate.
	Timber, juniper and pinon.
	Undergrowth, sagebrush and buck brush.
	Fair grazing.
	N.0°01'W., bet. secs. 25 and 26.
	Over broken bench land through scattering timber and undergrowth. Descend 30 ft. over sandstone surface rock on N. slope to
3.30	Bottom of draw, course NE. Ascend 30 ft. over SE. slope to top of spur.
8.50	Leave surface rock, bears NE. and SW.
18.90	Top of spur, slopes NE. Descend 100 ft. over NW. slope to ¼ sec. cor.
34.90	Thence over surface rock, bearing NE. and SW.

SUBDIVISION OF T.23 S., R. 21 E.

Chains

40.00 Set an iron post, 3 ft. long, 1 in. diam., over X cut in solid surface rock, and surrounded by mound of stone to the top, for the ¼ sec. cor., with brass cap mkd.

¼

S 26 | S 25

1932

from which

A juniper, 3 ins. diam., bears N.49°45'E., 44 lks. dist., mkd. B T.

A juniper, 8 ins. diam., bears S.22°00'W., 19 lks. dist., mkd. ¼ S 26 BT.

43.10 Bottom of draw, course NE. Ascend 80 ft. over SE. slope to top of spur.

47.00 Leave surface rock, bearing NE. and SW.

75.50 Top of spur, slopes NE. Descend 20 ft. over NW. slope to

80.00 Set an iron post, 3 ft. long, 2 ins. diam., over X cut in solid surface rock, and surrounded by mound of stone to the top, for the cor. of secs. 23, 24, 25, and 26, with brass cap mkd.

T23S R21E

S23 | S24

S26 | S25

1932

from which

A juniper, 3 ins. diam., bears N.48°30'E., 220 lks., dist., mkd. B T.

A juniper, 7 ins. diam., bears S.83°30'E., 88 lks. dist., mkd. T 23 S R 21 E S 25 BT.

A juniper, 6 ins. diam., bears S.76°00'W., 110 lks. dist., mkd. T 23 S R 21 E S 26 BT.

A juniper, 10 ins. diam., bears N.35°00'W., 107 lks. dist., mkd. T 23 S. R 21 E S 23 BT.

Land, broken bench.

Soil, loose sandy loam and surface sandstone; 3rd rate.

Timber, juniper and pinon.

Undergrowth, buck and black brush.

Fair grazing.

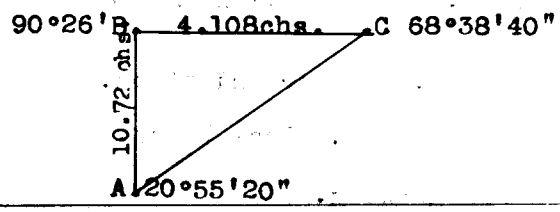
N.89°59'E., on random line bet. secs. 24 and 25.

40.00 Set temp. ¼ sec. cor.

79.94 Intersect the east bdy. of the township, 5 lks. S. of the cor. of secs. 24 and 25, heretofore described.

Thence

Chains	
	S.89°57'W., on true line bet. secs. 24 and 25.
	Over broken bench land, through scattering undergrowth. Ascend 250 ft. over E. slope to the ¼ sec. cor.
8.10	Top of west rim of Salt Wash Canyon, 50 ft. high, bears NW. and SE. Continue ascent over surface sandstone.
13.90	Leave surface sandstone, bearing NW. and SE.
39.97	Set an iron post, 3 ft. long, 1 in. diam., 30 ins. in the ground, for the ¼ sec. cor., with brass cap mkd.
	¼ S 24 / S 25 1932
	and raise mound of stone, 3 ft. base, 2 ft. high, N. of the cor.
	Ascend 70 ft. over SE. slope to top of spur.
46.10	Enter scattering timber bears NE. and SW.
71.90	Top of spur, slopes NE. Descend 10 ft. over NW. slope to
79.94	The cor. of secs. 23, 24, 25, and 26.
	Land, broken bench.
	Soil, loose sandy loam and surface sandstone; 3rd rate.
	Timber, juniper and pinon.
	Undergrowth, black brush.
	Poor grazing.
	N.0°01'W., bet. secs. 23 and 24.
	Over broken bench land through scattering timber and undergrowth. Descend 140 ft. over N. slope to top of rim.
14.50	Thence over surface rock, bearing NE. and SW.
32.66	A log cabin, 10 x 12 ft., belonging to E.P.Cordova, bears N.36°15'W. Top of sandstone rim, 100 ft. high, bears NE. and SW. The line to the north crosses deep box canyon with vertical sandstone rims over which chaining is impracticable. Therefore to determine the distance I triangulate as follows: Erect flag A at this point and set flag B on line on north rim of canyon. Also set flag C northeasterly from A on the north rim of canyon. The angles were determined by three repetitions with the error balanced to 180°. Angle at A is 20°55'20"; angle at B is 90°26'; angle at C is 68°38'40". The mean distance of the base line CB is 4.108 chs. with no difference in measurement by two sets of chainmen.



SUBDIVISION OF T.23 S., R. 21 E.

Chains	
	Distance on line to point A----------32.36 chs. Distance by triangulation A to B--------10.72 chs. Total distance on line to B----------43.08 chs. distance by return measurement---------- .29 chs. 43.08 chs.
37.60	Approximate dist.: Bottom of canyon, course E. Stream of clear water 3 lks. wide in bottom.
40.00	True point for the ¼ sec. cor., falls in bottom of canyon where it is impracticable to set cor.
42.00	North rim of canyon, 100 ft.high, bears E. and W.
43.08	Set an iron post, 3 ft. long, 1 in. diam., 10 ins. in the ground to solid rock, and surrounded by mound of stone to the top, for the witness ¼ sec. cor., with brass cap mkd. ¼ S 23 | S 24 WC 1932 from which A juniper, 3 ins. diam., bears N.40°30'E., 185 lks. dist., mkd. B T. A pinon, 5 ins. diam., bears N.75°00'W., 149 lks. dist., mkd. WC ¼ S 23 BT.
43.37	Point B of triangulation. Cabin of E.P.Cordova's bears S.20°00'W. Ascend 120 ft. over S. slope to spur.
45.00	Leave surface rock, bearing E. and W.
61.40	Top of spur, slopes E. Descend 50 ft. over N. slope to
80.00	Set an iron post, 3 ft.long, 2 ins. diam., 12 ins. in the ground, to solid rock, and surrounded by mound of stone to the top, for the cor. of secs. 13, 14, 23, and 24, with brass cap mkd. T23S | R21E S14 | S13 S23 | S24 1932 from which A juniper, 6 ins. diam., bears N.23°00'E., 120 lks. dist., mkd. T 23 S R 21 E S 13 BT. A juniper, 4 ins. diam., bears S.72°15'W., 498 lks. dist., mkd. T 23 S R 21 E S 23 BT. A juniper, 3 ins. diam., bears N.13°30'W., 106 lks. dist., mkd. B T. No other suitable accessories available.
	Land, broken bench.
	Soil, loose sandy loam and exposed surface sandstone; 3rd rate.
	Timber, juniper and pinon.
	Undergrowth, black brush.
	Poor grazing.

Chains	
	N.89°57'E., on random line bet. secs. 13 and 24.
40.00	Set temp. ¼ sec. cor.
79.96	Intersect the E. bdy. of the township, .5 lks. S. of the corner of secs. 13 and 24, heretofore described.
	Thence
	S.89°55'W., on true line bet. secs. 13 and 24.
	Over broken bench land, through scattering undergrowth. Ascend 20 ft. over E. slope to
12.20	Top of ridge, bears N. and S. Descend 340 ft. over W. slope to bottom of Salt Wash.
21.90	Top of sandstone rim, 75 ft. high, bears N. and S.
33.40	Bottom of Salt Wash, stream of water, 8 lks. wide, course SE. Ascend 60 ft. over E. slope.
39.98	Set an iron post, 3 ft. long, 1 in. diam., 30 ins. in the ground, for the ¼ sec. cor., with brass cap mkd.
	¼ S 13 / S 24 1932
	and raise mound of stone, 3 ft. base, 2 ft. high, N. of the cor.
	Ascend 200 ft. over E. slope to sec. cor.
47.20	Top of sandstone rim, 75 ft. high, bears N. and S. Continue ascent over surface sandstone.
57.50	Leave surface sandstone, bearing N. and S.
79.96	The cor. of secs. 13, 14, 23 and 24.
	Land, broken bench.
	Soil, loose sandy loam and surface sandstone; 2nd rate.
	Undergrowth, black brush, sagebrush and greasewood.
	Poor grazing.
	N.0°01'W., bet. secs. 13 and 14.
	Over broken bench land, through scattering timber and undergrowth.
1.00	Bottom of small draw, course E. Ascend 20 ft. over SE. slope to
17.50	Top of spur, slopes E. Descend 130 ft. over N. slope to
40.00	Set an iron post, 3 ft. long, 1 in. diam., over X cut in solid surface rock, and surrounded by mound of stone to the top, for the ¼ sec. cor., with brass cap mkd.
	¼ S 14 | S 13 1932
	from which

Chains	
	A juniper, 4 ins. diam., bears S.26°30'E., 187 lks. dist., mkd. ¼ S 13 B T.
	A juniper, 3 ins. diam., bears S.61°45'W., 219 lks. dist., mkd. B T.
41.00	Leave scattering timber, bearing NW. and SE. Top of rim 40 ft. high, bearing NW. and SE. Descend 70 ft.
57.10	Bottom of Yellow Cat Wash, stream of water 4 lks. wide in bottom, course SE. Ascend 55 ft. over SW. slope to
80.00	Set an iron post, 3 ft. long, 2 ins. diam., 10 ins. in the ground to solid rock, with sandstone 7 x 5 x 3 ins. mkd. X, deposited at the base, and surrounded by mound of stone to the top, for the cor. of secs. 11, 12, 13, and 14, with brass cap mkd.

T23S R21E
S11 | S12
S14 | S13
1932

No other suitable accessories available.

Land, broken bench.

Soil, loose sandy loam and surface sandstone; 3rd rate.

Timber, juniper and pinon.

Undergrowth, shadscale, blackbrush and greasewood.

Poor grazing.

	N.89°55'E., on random line bet. secs. 12 and 13.
40.00	Set temp. ¼ sec. cor.
80.02	Intersect the east boundary of the township, 9 lks. N. of the cor. of secs. 12 and 13 heretofore described.
	Thence
	S.89°59'W., on true line bet. secs. 12 and 13.
	Over broken bench land, through scattering undergrowth.
9.60	Bottom of draw, course SW. Ascend 60 ft. over E. slope to
13.00	Top of spur, slopes S. Descend 60 ft. over W. slope to
16.00	Bottom of same draw. course NW.
19.20	Bottom of same draw, course SW. Ascend 40 ft. over SE. slope to
22.30	Top of spur, slopes SW. Descend 60 ft. over W. slope to bottom of Salt Wash.
37.84	Set an iron post, 3 ft. long, 1 in. diam., 30 ins. in the ground, for the witness ¼ sec. cor., with brass cap mkd.

WC ¼ S 12 / S 13
1932

and raise mound

Chains	
	of stone 3 ft. base, 2 ft.high, N. of the cor.
40.01	True point for the ¼ sec. cor. falls in bottom of Salt Wash, course S. Impracticable to set cor. Ascend 150 ft. over NE. slope to
61.20	Top of ridge, bears NW. and SE. Descend 70 ft. over W. slope to sec. cor.
76.90	Top of sandstone rim, 20 ft.high, bears NW. and SE.
80.02	The cor. of secs.11, 12, 13, and 14.
	Land, broken bench.
	Soil, loose sandy loam; 3rd rate.
	Undergrowth, shadscale and sagebrush.
	Fair grazing.

N.0°01'W., bet. secs. 11 and 12.

Over broken bench land through scattering undergrowth. Ascend 260 ft. over S. slope to ¼ sec. cor.

4.00	Sandstone rim, 25 ft. high, bears NW. and SE.
40.00	Set an iron post, 3 ft. long, 1 in. diam., 8 ins. in the ground to solid rock and surrounded by mound of stone to the top, with sandstone 8 x 6 x 4 ins. mkd. X deposited at the base, with brass cap mkd. for ¼ sec. cor.

¼

S 11 | S 12

1932

No other suitable accessories available.

Continue ascent of 25 ft. over S. slope.

45.00	Top of spur, slopes SW. Descend 190 ft. over NW. slope to sec. cor.
80.00	Set an iron post, 3 ft. long, 2 ins. diam., 18 ins. in the ground to solid rock, with sandstone 8 x 6 x 3 ins. mkd. X deposited at the base, and surrounded by mound of stone to the top, for the cor. of secs. 1, 2, 11, and 12, with brass cap mkd.

T23S R21E

S 2 | S 1

S11 | S12

1932

No other suitable accessories available.

Land, broken bench.

Soil, loose sandy loam; 2nd rate.

Undergrowth, shadscale and blackbrush.

Fair grazing.

Chains	
	N.89°59'E., on random line bet. secs. 1 and 12.
40.00	Set temp. ¼ sec. cor.
80.02	Intersect the E. bdy. of the township, 3 lks. N. of the cor. of secs. 1 and 12, heretofore described.
	Thence
	West, on true line bet. secs. 1 and 12.
	Over broken bench land through scattering undergrowth.
	Ascend 70 ft. over SE. slope to top of ridge.
40.01	Set an iron post, 3 ft. long, 1 in. diam., over X cut in solid rock, and surrounded by mound of stone to the top, for the ¼ sec. cor., with brass cap mkd.

¼ S 1 / S12
1932

	No other suitable accessories available.
65.30	Top of low ridge, bears NE. and SW. Descend 35 ft. over NW. slope to
80.02	The cor. of secs. 1, 2, 11 and 12.
	Land, broken bench.
	Soil, loose sandy and clay loam; 2nd rate.
	Undergrowth, black brush and shadscale.
	Fair grazing.

	N.0°01'W., bet. secs. 1 and 2.
	Over broken bench land, through scattering undergrowth. Descend 50 ft. over N. slope to
20.00	Bottom of draw, course W. Thence over nearly level desert land to sec. cor.
40.00	Set an iron post, 3 ft. long, 1 in. diam., 30 ins. in the ground, for the ¼ sec. cor., with brass cap mkd.

¼
S 2 | S 1
1932

of stone, 3 ft. base, 2 ft. high, and raise mound W. of the cor.

49.70	Intersect the N. bdy. of the township, 8.13 chs. E. of the ¼ sec. cor. for sec. 35, heretofore described.
	At point of intersection
	Set an iron post, 3 ft. long, 2 ins. diam., 30 ins. in the ground, for the closing cor. for secs. 1 and 2, with brass cap mkd.

Chains	
	T22S R21E S35 S 2 | S 1 T23S | R21E C C 1932
	and raise mound of stone, 3 ft. base, 2 ft. high, S. of the cor.
	Land, broken bench.
	Soil, loose sandy loam; 2nd rate.
	Undergrowth, black brush and shadscale.
	Fair grazing.
	From the cor. of secs. 2,3, 34 and 35, on the S. bdy., heretofore described.
	N.0°01'W., bet. secs. 34 and 35.
	The line to the north ascends over vertical sandstone ledges over which chaining is impracticable. Therefore to determine the distance I run on offset and traverse as follows: Topography given on offset line.
	West, 2.74 chs. thence
	N.0°01'W., on offset line. Ascend 180 ft. over broken sandstone SW. slope, through scattering timber and undergrowth to,
7.76	Top of ridge, bears NW. and SE.
	Thence N.25°46'W., 35.80 chs. Descending 180 ft. over NW. slope to,
40.00	Northing. Thence East., 18.30 chs. dist. to true line.
	Set an iron post, 3 ft. long, 1 in. diam., 30 ins. in the ground, for the ¼ sec. cor., with brass cap mkd.
	¼ S34 | S35 1932
	from which
	A juniper, 8 ins. diam., bears S.32°30'E., 298 lks. dist., mkd. ¼ S 35 B T.
	A pinon, 6 ins. diam., bears S.19°45'W., 399 lks. dist., mkd. ¼ S 34 B T.
	Thence N.0°01'W., on true line over broken bench land. Descend 40 ft. over NE. slope to
48.70	Bottom of wash, course NE. Ascend 50 ft. over SE. slope to top of spur.
63.00	Thence over surface sandstone and sandstone domes, bearing NW. and SE.
63.60	Top of sandstone spur, slopes NE. Descend 70 ft. over N. slope to

Chains	
80.00	Set an iron post, 3 ft. long, 2 ins. diam., 18 ins. in the ground to solid rock and surrounded by mound of stone to the top, for the cor. of secs. 26, 27, 34, and 35, with brass cap mkd.

T23S | R21E
S27 | S26
S34 | S35
1932

from which

A pinon, 6 ins. diam., bears N.33°15'E., 186 lks. dist., mkd. T 23 S R 21 E S 26 BT.

A pinon, 5 ins. diam., bears S.60°00'E., 37 lks. dist., mkd. T 23 S R 21 E S 35 B T.

A pinon, 8 ins. diam., bears S.79°00'W., 29 lks. dist., mkd. T 23 S R 21 E S 34 B T.

A pinon, 6 ins. diam., bears N.28°30'W., 193 lks. dist., mkd. T 23 S R 21 E S 27 B T.

Land, broken bench.

Soil, loose sandy loam and surface sandstone; 3rd rate.

Timber, juniper and pinon.

Undergrowth, black brush.

Fair grazing.

East, on random line bet. secs. 26 and 35.

40.00	Set temp. ¼ sec. cor.
80.00	Intersect the cor. of secs. 25, 26, 35 and 36.

Thence

West, on true line bet. secs. 26 and 35.

Over broken bench land through scattering timber and undergrowth. Over surface sandstone.

1.50	Bottom of draw, course NE. Ascend 150 ft. over SE. slope to
40.00	Set an iron post, 3 ft. long, 1 in. diam., over X cut in solid surface rock, and surrounded by mound of stone to the top, for the ¼ sec. cor., with brass cap mkd.

¼ S 26 / S 35
1932.

from which

A pinon, 7 ins. diam., bears N.62°00'E., 106 lks. dist., mkd. ¼ S 26 BT.

A pinon, 8 ins. diam., bears S.6°30'W., 143 lks. dist., mkd. ¼ S 35 B T.

Chains	
	Continue ascent of 230 ft. over SE. slope to
78.60	Top of spur, slopes NE. Descend 40 ft. over NW. slope. Enter sandstone domes and pinnacles.
80.00	The cor. of secs. 26, 27, 34, and 35.
	Land, broken bench.
	Soil, loose sandy loam and surface sandstone; 3rd rate.
	Timber, juniper and pinon.
	Undergrowth, black brush.
	Poor grazing.

N.0°01'W., bet. secs. 26 and 27.

Over broken bench land, through scattering timber and undergrowth. Descend 50 ft. over NE. slope over sandstone domes and pinnacles.

6.30 Bottom of draw, course NE. Leave sandstone surface rock bearing NW. and SE. Ascend 10 ft. over SE. slope to top of spur,

10.00 Thence over sandstone surface rock, bearing NW. and SE.

18.50 Top of spur, slopes SE. Descend 70 ft. over NE. slope to

40.00 Set an iron post, 3 ft. long, 1 in. diam., over X cut in solid surface rock, and surrounded by mound of stone to the top, for the ¼ sec. cor., with brass cap mkd.

¼

S 27 | S 26

1932

from which

A pinon, 8 ins. diam., bears S.7°45'E., 74 lks. dist., mkd. ¼ S 26 BT.

A pinon, 6 ins. diam., bears S.40°00'W., 79 lks. dist., mkd. ¼ S 27 BT.

Continue descent of 110 ft. over NE. slope to

80.00 Set an iron post, 3 ft. long, 2 ins. diam., over X cut in solid surface rock, and surrounded by mound of stone to the top, for the cor. of secs. 22, 23, 26, and 27, with brass cap mk.

T23S R21E

S22 | S23

S27 | S26

1932

No other suitable accessories available.

Land, broken bench.

Soil, loose sandy loam with surface sandstone; 3rd rate.

Timber, juniper and pinon.

Undergrowth, black brush.

Poor grazing.

Chains	
	East, on random line bet. secs. 23 and 26.
40.00	Set temp. ¼ sec. cor.
79.92	Intersect N. and S. line, 3 lks. S. of the cor. of secs. 23, 24, 25, and 26.
	Thence
	S.89°59'W., on true line bet. secs. 23 and 26.
	Over broken bench land, through scattering timber and undergrowth. Descend 90 ft. over NW. slope to bottom of draw.
18.20	Thence over surface sandstone, bearing NE. and SW.
28.00	Bottom of draw, course NE. Ascend 110 ft. over SE. slope to top of spur.
33.10	Leave surface rock, bearing NE. and SW.
39.00	Top of spur, slopes NE.
39.96	Set an iron post, 3 ft. long, 1 in. diam., 18 ins. in the ground to solid rock and surrounded by mound of stone to the top, for the ¼ sec. cor., with brass cap mkd.

¼ S 23 / S 26
1932

from which

A juniper, 3 ins. diam., bears S.20°00'W., 86 lks. dist., mkd. B T.

A pinon, 4 ins. diam., bears N.61°00'W., 46 lks. dist., mkd. ¼ S 23 BT.

	Descend 20 ft. to bottom of draw.
44.60	Thence over surface sandstone, bearing NE. and SW.
51.00	Bottom of draw, course NE. Ascend 130 ft. over SE. slope to
79.92	The cor. of secs. 22, 23, 26, and 27.
	Land, broken bench.
	Soil, loose sandy loam with sandstone surface rock; 3rd rate.
	Timber, juniper and pinon.
	Undergrowth, black brush.
	Poor grazing.

	N.0°01'W., bet. secs. 22 and 23.
	Over broken bench land, through scattering timber and undergrowth. Descend 15 ft. over N. sandstone slope.
6.80	Bottom of draw, course E. Ascend 130 ft. over S. slope to ¼ sec. cor.

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Chains	
9.90	Leave sandstone surface rock, bearing E. and W.
40.00	Set aniron post, 3 ft.long, 1 in. in diam., 30 ins. in the ground, for the ¼ sec. cor., with brass cap mkd.

¼
S22 | S23
1932

from which

A pinon, 10 ins. diam., bears S.8°30'E., 197 lks. dist., mkd. ¼ S 23 BT.

A pinon, 4 ins. diam., bears S.31°30'W., 246 lks. dist., mkd. ¼ S 22 BT.

Continue ascent of 10 ft. to

41.40	Top of ridge, bears NE. and SW. Descend 105 ft.over NW. slope.
80.00	Set an iron post, 3 ft. long, 2 ins. diam., 20 ins. in the ground to solid rock, and surrounded by mound of stone to the top, for the cor. of secs. 14, 15, 22,and 23, with brass cap mkd.

T23S R21E
S15 | S14
S22 | S23
1932

from which

A juniper, 3 ins. diam., bears N.69°00'E., 177 lks. dist., mkd. B T.

A pinon, 3 ins. diam., bears S.23°00'E., 118 lks. dist., mkd. B T.

A pinon, 3 ins. diam., bears S.84°45'W., 137 lks. dist., mkd. B T.

A juniper, 3 ins. diam., bears N.61°00'W., 81 lks. dist., mkd. B T.

Land, broken bench.

Soil, loose sandy loam with sandstone surface rock;3rd rate.

Timber, juniper and pinon.

Undergrowth, black brush.

Poor grazing.

	N.89°59'E., on random line bet. secs. 14 and 23.
40.00	Set temp. ¼ sec. cor.
79.90	Intersect N. and S. line 7 lks. N. of the cor. of secs. 13, 14, 23,and 24.

Thence

Chains	
	N.89°58'W., on true line bet. secs. 14 and 23.
	Over broken bench land, through scattering timber and undergrowth. Ascend 170 ft. over E. slope to
19.90	Top of spur, slopes N. Descend 140 ft. over W. slope to
35.30	Bottom of draw, course N. Ascend 20 ft. to
39.95	Set a iron post, 3 ft. long, 1 in. diam., 30 ins. in the ground, for the ¼ sec. cor., with brass cap mkd.

¼ S 14 / S 23
1932

from which

A juniper, 14 ins. diam., bears N.72°00'E., 530 lks. dist., mkd. ¼ S 14 BT.

A juniper, 5 ins. diam., bears S.85°00'E., 482 lks. dist., mkd. ¼ S 23 BT.

	Continue ascent of 80 ft. over E. slope to
50.50	Top of spur, slopes N. Descend 60 ft. over W. slope to
57.90	Bottom of draw, course N. Ascend 110 ft. over SE. slope to
64.40	Top of spur, slopes NE. Descend 50 ft. over W. slope to
69.40	Bottom of draw, course N. Ascend 20 ft. over SE. slope to
78.00	Top of spur, slopes NE.
79.90	The cor. of secs. 14, 15, 22, and 23.
	Land, broken bench.
	Soil, loose sandy loam; 2nd rate.
	Timber, juniper and pinon.
	Undergrowth, black brush.
	Fair grazing.

	N.0°01'W., bet. secs. 14 and 15.
	Over broken bench land, through scattering timber and undergrowth. Descend 220 ft. over NE. slope to bottom of draw.
2.00	Head of draw, course NW.
24.30	Bottom of draw, course W. Ascend 80 ft. over S. slope to
35.60	Top of spur, slopes W. Descend 70 ft. over N. slope to
40.00	Set an iron post, 3 ft. long, 1 in. diam., 18 ins. in the ground to solid rock and surrounded by mound of stone to the top, for the ¼ sec. cor., with brass cap mkd.

¼

S 15 | S 14
1932

from which

Chains	
	A juniper, 4 ins. diam., bears S.35°30'E., 126 lks. dist., mkd. ¼ S 14 B T.
	A juniper, 4 ins. diam., bears N.71°00'W., 92 lks. dist., mkd. ¼ S 15 B T.
	Continue descent of 70 ft. to
49.70	Bottom of draw, course NE. Leave timber bears NE. and SW. Ascend 50 ft. over SE. slope. to
60.20	Top of spur, slopes NE. Descend NW. slope 50 ft. to
71.00	Bottom of draw, course E. Ascend 50 ft. over S. slope to
73.40	Top of spur, slopes E. Descend 30 ft. over N. slope. to
79.00	Bottom of draw, course E.
80.00	Set an iron post, 3 ft. long, 2 ins. diam., 30 ins. in the ground, for the cor. of secs. 10, 11, 14, and 15, with brass cap mkd.

T23S R21E
S10 | S11
S15 | S14
1932

and raise mound of stone, 3 ft. base, 2 ft. high, W. of the cor.

Land, broken bench.

Soil, loose sandy loam; 2nd rate.

Timber, juniper and pinon.

Undergrowth, black brush and shadscale.

Poor grazing.

S.89°58'E., on random line bet. secs. 11 and 14.

40.00 Set temp. ¼ sec. cor.

79.94 Intersect the cor. of secs. 11, 12, 13, and 14.

Thence

N.89°58'W., on true line bet. secs. 11 and 14.

Over broken bench land through scattering undergrowth. Descend 20 ft. over W. slope.

4.60 Bottom of draw, course S. Ascend 90 ft. over E. slope to

12.00 Top of spur, slopes S. Descend 100 ft. over W. slope to

30.60 Bottom of draw, course SW. Ascend 30 ft. to

39.97 Set an iron post, 3 ft. long, 1 in. diam., 6 ins. in the ground to solid rock, with sandstone 6 x 5 x 4 ins. mkd. X deposited at the base, and surrounded by mound of stone to the top, for the ¼ sec. cor., with brass cap mkd.

¼ S 11 | S 14
1932

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Chains	
	No other suitable accessories available.
	Ascend 50 ft. over E. slope, to
42.60	Top of spur, slopes S. Descend 60 ft. over W. slope to
48.70	Bottom of draw, course S. Ascend 40 ft. over E. slope to
63.40	Top of spur, slopes S. Descend 60 ft. over NW. slope to
72.00	Bottom of Yellow Cat Wash, course SW.
75.00	Bottom of same wash, course NW.
78.70	Bottom of same wash, course S.
79.94	The cor. of secs. 10, 11, 14, and 15.
	Land, broken bench.
	Soil, loose sandy loam; 2nd rate.
	Timber, none.
	Undergrowth, black brush and shadscale.
	Poor grazing.

	N.0°01'W., bet. secs. 10 and 11.
	Over broken bench land, through scattering undergrowth. Ascend 40 ft. over SE. slope to
18.00	Top of spur, slopes E. Descend 65 ft. over N. slope to
35.70	Bottom of Yellow Cat Wash, course E. Ascend 40 ft. over SW. slope to
40.00	Set an iron post, 3 ft. long, 1 in. diam., 30 ins. in the ground, for the $\frac{1}{4}$ sec. cor., with brass cap mkd.

$\frac{1}{4}$

S 10 | S 11

1932

and raise mound of stone, 3 ft. base, 2 ft. high, W. of the cor.

	Continue ascent of 60 ft. to
56.90	Top of ridge, bears E. and W. Descend 30 ft. over N. slope to
79.50	Bottom of draw, course W.
80.00	Set an iron post, 3 ft. long, 2 ins. diam., 30 ins. in the ground for the cor. of secs. 2, 3, 10, and 11, with brass cap mkd.

T23S R21E

S 3 | S 2

S10 | S11

1932

and raise mound of stone, 3 ft. base, 2ft. high, W. of the cor.

Chains	
	Land, broken bench.
	Soil, loose sandy loam; 2nd rate.
	Undergrowth, sagebrush, grease wood, shadscale and black brush.
	Fair grazing.
	S.89°58'E., on random line bet. secs. 2 and 11.
40.00	Set temp. ¼ sec. cor.
79.92	Intersect N. and S. line, 9 lks. S. of the cor. of secs. 1, 2, 11, and 12,
	Thence
	S.89°58'W., on true line bet. secs. 2 and 11.
	Over broken bench land through scattering undergrowth. Descend 120 ft. over W. slope to
26.40	Bottom of draw, course N. Ascend 60 ft. to
39.96	Set an iron post, 3 ft. long, 1 in. diam., 20 ins. in the ground to solid rock, with sandstone 6 x 5 x 4 ins. mkd. X, deposited at the base, and surrounded by mound of stone to the top, for the ¼ sec. cor., with brass cap mkd.
	¼ S 2 / S 11 1932
	No other suitable accessories available.
41.30	Top of spur, slopes N. Descend 70 ft. over W. slope to
79.92	The cor. of secs. 2, 3, 10, and 11.
	Land, broken bench.
	Soil, loose sandy loam; 2nd rate.
	Undergrowth, black brush, grease wood and shadscale.
	Fair grazing.
	N.0°01'W., bet. secs. 2 and 3.
	Over broken bench land, through scattering undergrowth. Ascend 15 ft. over S. slope to
6.10	Top of spur, slopes W. Descend 40 ft. over N. slope to
9.30	Branch of Yellow Cat Wash, course SW. Ascend 40 ft. over SE. slope to
40.00	Set an iron post, 3 ft. long, 1 in. diam., 30 ins. in the ground, for the ¼ sec. cor., with brass cap mkd.
	¼ S 3 | S 2 1932

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Chains	
	and raise mound of stone, 3 ft. base, 2 ft. high, W. of the cor.
	Thence over nearly level land.
49.74	Intersect the N. bdy. of the township, East, 8.25 chs. dist., from the ¼ sec. cor., for sec. 34 only, heretofore described.
	At point of intersection
	Set a iron post, 3 ft. long, 2 ins. diam., 30 ins. in the ground, for the closing cor. of secs. 2 and 3, with brass cap mkd.

T22S R21E
S34

S 3	S 2
T23S	R21E
C	C

1932

Chains	
	and raise mound of stone, 3 ft. base, 2 ft. high, S. of the cor.
	Land, bench.
	Soil, loose sandy loam; 2nd rate.
	Undergrowth, grease wood and shadscale.
	Fair grazing.
	From the cor. of secs. 3, 4, 33, and 34, on the S. bdy., of the township, heretofore described.
	N.0°02'W., bet. secs. 33 and 34.
	Over broken bench land, through scattering timber and undergrowth. Ascend 60 ft. over S. slope to
21.00	Top of spur, slopes SW. Descend 40 ft. over NW. slope to
29.90	Bottom of draw, course SW. Ascend 20 ft. over SE. slope to
40.00	Set an iron post, 3 ft. long, 1 in. diam., 30 ins. in the ground, for the ¼ sec. cor., with brass cap mkd.

¼

S 33	S 34

1932

Chains	
	from which
	A pinon, 8 ins. diam., bears N. 18°30'E., 184 lks. dist., mkd. ¼ S 34 B T.
	A pinon, 10 ins. diam., bears N.31°45'W., 199 lks. dist., mkd. ¼ S 33 B T.
40.50	Top of ridge, bears E. and W. Descend 80 ft. over N. slope to
56.20	Bottom of draw, course W. Ascend 50 ft. over S. slope to
68.00	Top of spur, slopes W. Descend 40 ft. over N. slope to

Chains	
77.70	Bottom of draw, course W. Ascend 20 ft. over S. slope to
80.00	Set an iron post, 3 ft. long, 2 ins. diam., over X cut in solid surface rock, and surrounded by mound of stone to the top, for the cor. of secs. 27, 28, 33, and 34, with brass cap mkd.

T23S R21E
S28 | S27
S33 | S34
1932

from which

A juniper, 6 ins. diam., bears N.22°30'E., 27 lks. dist., mkd. T 23 S R 21 E S 27 BT.

A juniper, 4 ins. diam., bears S.2°00'E., 154 lks. dist., mkd. B T.

A juniper, 3 ins. diam., bears S.57°00'W., 175 lks. dist., mkd. BT.

A juniper, 6 ins. diam., bears N.74°00'W., 255 lks. dist., mkd. T 23 S R 21 E S 28 B T.

Land, broken bench.

Soil, loose sandy loam; 2nd rate.

Timber, juniper and pinon.

Undergrowth, black brush.

Fair grazing.

East, on random line bet. secs. 27 and 34.

40.00	Set temp. ¼ sec. cor.
80.12	Intersect N. and S. line, 3 lks. N. of the cor. of secs. 26, 27, 34, and 35.

Thence

N.89°59'W., on true line bet. secs. 27 and 34.

Over broken bench land, through scattering timber and undergrowth. Descend 20 ft. over NW. slope to

6.60	Bottom of draw, course NE. Ascend 80 ft. over NW. slope to
19.40	Top of ridge, bears NW. and SE. Descend 40 ft. to
40.06	Set an iron post, 3 ft. long, 1 in. diam., 30 ins. in the ground, for the ¼ sec. cor., with brass cap mkd.

¼ S 27 / S 34
1932

from which

A juniper, 12 ins. diam., bears N.50°00'W., 170 lks. dist., mkd. ¼ S 27 BT.

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Chains	
	A pinon, 24 ins. diam., bears S.10°00'E., 216 lks. dist., mkd. ¼ S 34 BT.
	Continue descent of 200 ft. over W. slope to bottom of draw.
67.00	Top of rim, 20 ft. high, bears NW. and SE.
79.10	Bottom of draw, course SW. Ascend 10 ft. to
80.12	The cor. of s secs. 27, 28, 33, and 34.
	Land, broken bench.
	Soil, loose sandy loam; 2nd rate.
	Timber, juniper and pinon.
	Undergrowth, black brush.
	Fair grazing.
	N.0°02'W., bet. secs. 27 and 28.
	Over broken bench land, through scattering timber and undergrowth. Ascend 300 ft. over SW. slope to ¼ sec. cor.
9.10	Bottom of draw, course SE.
12.70	Top of sandstone rim, 50 ft. high, bears NW. and SE. Thence over surface sandstone.
40.00	Set aniron post, 3 ft. long, 1 in. diam., 30 ins. in the ground, for the ¼ sec. cor., with brass cap mkd.

¼

S 28 | S 27

1932

from which

A pinon, 6 ins. diam., bears N.70°15'E., 276 lks. dist., mkd. ¼ S 27 B T.

A pinon, 3 ins. diam., bears S.44°30'W., 102 lks. dist., mkd. B T.

The line to the north crosses series of smooth sandstone domes and pinnacles over which chaining on true line is impracticable. Therefore to determine the distance I return to the 39.25 chs. point and run on traverse as follows.

N.14°15'W., 15.63 chs. Top of narrow sandstone spur, sloping SE.

N.31°30'E., 21.71 chs.

N.44°15'W., 10.10 chs.

West, 46 lks. to true line

S.0°02'E., 14 lks. to

80.00	Set an iron post, 3 ft. long, 2 ins. diam., 30 ins. in the ground, for the cor. of secs. 21, 22, 27, and 28,

Chains	
	with brass cap mkd.
	T23S R21 E S21 | S22 S28 | S27 1932
	from which
	A juniper, 8 ins. diam., bears N.71°15'E., 318 lks. dist., mkd. T 23 S R 21 E S 22 B T.
	A juniper, 4 ins. diam., bears S.84°30'E., 550 lks. dist., mkd. T 23 S R 21 E S 27 BT.
	A pinon, 6 ins. diam., bears S.44°00'W., 269 lks. dist., mkd. T 23 S R 21 E S 28 BT.
	A pinon, 3 ins. diam., bears N.87°30'W., 288 lks. dist., mkd. B T.
	Land, broken bench.
	Soil, loose sandy loam and surface sandstone; 3rd rate.
	Timber, juniper and pinon.
	Fair grazing.
	S.89°59'E., on random line bet. secs. 22 and 27.
40.00	Set temp. ¼ sec. cor.,
80.14	Intersect N. and S. line 9 lks. S. of the cor. of secs. 22, 23, 26, and 27.
	Thence
	S.89°57'W., on true line bet. secs. 22 and 27.
	Over broken bench land, through scattering timber and undergrowth. Over white surface sandstone.
	Ascend 240 ft. over E. slope to ¼ sec. cor.
40.07	Set an iron post, 3 ft. long, 1 in. diam., over X cut in solid surface rock, and surrounded by mound of stone to the top, for the ¼ sec. cor., with brass cap mkd.
	¼ S 22 / S 27 1932
	from which
	A pinon, 4 ins. diam., bears N.73°00'E., 60 lks. dist., mkd. ¼ S 22 BT.
	A pinon, 8 ins. diam., bears S.55°30'W., 16 lks. dist., mkd. ¼ S 27 B T.
	Ascend 40 ft. over SE. slope to top of spur.
43.10	Leave white surface sandstone enter red sandstone domes and pinnacles, bearing NW. and SE.
46.80	Top of sandstone spur, slopes NE. Descend 50 ft. over

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Chains	
	NW. slope to
58.50	Bottom of draw, course NE. Ascend 40 ft. over E. slope to sec. cor.
74.80	Top of sandstone dome, bearing N. and S.
80.14	The cor. of secs. 21, 22, 27, and 28.
	Land, broken bench.
	Soil, loose sandy loam and surface sandstone; 3rd rate.
	Timber, juniper and pinon.
	Undergrowth, black brush and sagebrush.
	Fair grazing.
	N.0°2'W., bet. secs. 21 and 22.
	Over broken bench land, through scattering timber and undergrowth. Over sandstone domes and pinnacles. Ascend 150 ft. over SW. slope to top of spur.
5.00	Top of sandstone dome, bears NW. and SE.
23.30	Bottom of draw, course SE.
35.00	Leave sandstone domes and pinnacles thence over white sandstone surface rock, bearing NW. and SE.
38.00	Top of spur, slopes SE. Descend 20 ft. over N. slope to
40.00	Set an iron post, 3 ft. long, 1 in. diam., 6 ins. in the ground to solid rock, and surrounded by mound of stone to the top, for the ¼ sec. cor., with brass cap mkd.

¼

S 21 | S 22

1932

from which

A pinon, 5 ins. diam., bears N.88°30'E., 71 lks. dist., mkd. ¼ S 22 BT.

A pinon, 4 ins. diam., bears S.75°00'W., 15 lks. dist., mkd. ¼ S 21 B T.

Continue descent of 230 ft. over N. slope to

80.00 Set an iron post, 3 ft. long, 2 ins. in diam., over X cut in solid surface rock, and surrounded by mound of stone to the top, for the cor. of secs. 15, 16, 21, and 22, with brass cap mkd.

T23S R21E

S16 | S15

S21 | S22

1932

from which

A juniper, 3 ins. diam., bears N.88°00'E., 57 lks. dist., mkd. B T.

Chains	
	A pinon, 3 ins. diam., bears S.3°00'E., 69 lks. dist., mkd. B T.
	A pinon, 6 ins. diam., bears S.27°00'W., 59 lks. dist., mkd. T 23 S R 21 E S 21 B T.
	A pinon, 8 ins. diam., bears N.50°30'W., 54 lks. dist., mkd. T 23 S R 21 E S 16 B T.
	Land, broken bench.
	Soil, loose sandy loam and surface sandstone; 3rd rate.
	Timber, juniper and pinon.
	Undergrowth, black brush.
	Fair grazing.
	N.89°57'E., on random line bet. secs. 15 and 22.
40.00	Set temp. ¼ sec. cor.
80.14	Intersect N. and S. line 5 lks. N. of the cor. of secs. 14, 15, 22, and 23.
	Thence
	S.89°59'W., on true line bet. secs. 15 and 22.
	Over broken bench, through scattering timber and undergrowth. Ascend 60 ft. over E. slope to
3.80	Top of spur, slopes N. Descend 230 ft. over NW. slope to
14.10	Thence over surface rock, bearing NE. and SW.
17.60	Bottom of draw, course NE. Ascend 120 ft. over SE. slope to top of spur.
22.70	Leave surface rock, bearing NE. and SW.
32.40	Top of spur, slopes NE. Descend 40 ft. to ¼ sec. cor.
37.00	Thence over surface rock, bearing NE. and SW.
40.07	Set an iron post, 3 ft. long, 1 in. diam., over X cut in solid surface rock, and surrounded by mound of stone to the top, for the ¼ sec. cor., with brass cap mkd.

¼ S 15 / S 22
1932

from which

	A pinon, 3 ins. diam., bears N.57°30'E., 54 lks. dist., mkd. B T.
	A pinon, 8 ins. diam., bears S.60°00'W., 100 lks. dist., mkd. ¼ S 22 BT.
41.10	Bottom of draw, course NE. Ascend 190 ft. over NE. slope to.
80.14	The cor. of secs. 15, 16, 21, and 22.
	Land, broken bench.

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Chains	
	Soil, loose sandy loam and surface sandstone; 3rd rate.
	Timber, juniper and pinon.
	Undergrowth, black brush and sagebrush.
	Poor grazing.

N.0°02'W., bet. secs. 15 and 16.

Over broken bench land, through scattering timber and undergrowth. Over sandstone surface rock. Descend 140 ft. over NE. slope to

33.50 Bottom of draw, course SE. Ascend 20 ft. over SW. slope to ¼ sec. cor. Leave sandstone surface rock.

40.00 Set an iron post, 3 ft. long, 1 in. diam., 30 ins. in the ground, for the ¼ sec. cor., with brass cap mkd.

¼

S 16 | S 15

1932

from which

A juniper, 3 ins. diam., bears S.82°00'E., 55 lks. dist., mkd. ¼ S 15 B T.

A pinon, 10 ins. diam., bears S.49°00'W., 443 lks. dist., mkd. ¼ S 16 B T.

41.30 Top of spur, slopes NE. Descend 90 ft. over NW. slope to

80.00 Set an iron post, 3 ft. long, 2 ins. diam., 8 ins. in the ground to solid rock and surrounded by mound of stone to the top, for the cor. of secs. 9, 10, 15, and 16, with brass cap mkd.

T23S R21E

S 9 | S10

S16 | S15

1932

from which

A juniper, 4 ins. diam., bears N.31°30'E., 82 lks. dist., mkd. T 23 S R 21 E S 10 B T.

A juniper, 6 ins. diam., bears S.50°00'E., 39 lks. dist., mkd. T 23 S R 21 E S 15 B T.

A juniper, 5 ins. diam., bears S.46°15'W., 146 lks. dist., mkd. T 23 S R 21 E S 16 B T.

A juniper, 4 ins. diam., bears N.79°15'W., 83 lks. dist., mkd. T 23 S R 21 E S 9 B T.

Land, broken bench.

Soil, loose sandy loam with sandstone surface rock; 3rd rate.

Timber, juniper and pinon.

Undergrowth, black brush and grease wood.

Chains	
	Fair grazing.
	N.89°59'E., on random line bet. secs. 10 and 15.
40.00	Set temp. ¼ sec. cor.
80.14	Intersect N. and S. line, 7 lks. S. of the cor. of secs. 10, 11, 14, and 15.
	Thence
	S.89°56'W., on true line bet. secs. 10 and 15.
	Over broken bench land through scattering undergrowth. Ascend 70 ft. to ¼ sec.cor.
28.10	Enter scattering timber, bearing N. and S.
39.52	Set an iron post, 3 ft. long, 1 in. diam., 20 ins. in the ground to solid rock and surrounded by mound of stone to the top, for the witness ¼ sec. cor., with brass cap mkd.

$$\text{WC } \tfrac{1}{4} \frac{\text{S } 10}{\text{S } 15}$$
1932

from which

A juniper, 6 ins. diam., bears S.30°00'E., 110 lks. dist., mkd. WC ¼ S 15' BT.

A juniper, 3 ins. diam., bears N.11°30'W., 169 lks. dist., mkd. B T.

40.07	True point for the ¼ sec. cor., falls in bottom of draw, course SE. No corner set. Ascend 70 ft.over NE. slope to sec. cor.
67.40	Top of low ridge, bears NE. and SW.
80.14	The cor. of secs. 9, 10, 15,and 16.
	Land, broken bench.
	Soil, loose sandy loam; 3rd rate.
	Timber, juniper and pinon.
	Undergrowth, sagebrush and grease wood.
	Fair grazing.
	N.0°02'W., bet. secs. 9 and 10.
	Over broken bench land, through scattering timber and undergrowth. Descend 20 ft.over N. slope to
21.70	Bottom of draw, course NW. Ascend 60 ft.over S.W. slope to
26.70	Top of spur, slopes W. Descend 80 ft. over N. slope to ¼ sec. cor. Leave scattering timber bearing E. and W.
40.00	Set an iron post, 3 ft. long, 1 in. diam., 30 ins. in the ground, for the ¼ sec.cor., with brass cap mkd.

Chains	
	¼ S 9 | S 10 1932
	and raise mound of stone, 3 ft. base, 2 ft. high, W. of the cor.
43.40	Bottom of draw, course NE. Ascend 50 ft. over SE. slope to
60.20	Top of spur, slopes E. Descend 40 ft. over N. slope to
80.00	Set an iron post, 3 ft. long, 2 ins. diam., 30 ins. in the ground, for the cor. of secs. 3, 4, 9, and 10, with brass cap mkd.
	T23S R21E S 4 | S 3 S 9 | S10 1932
	and raise mound of stone, 3 ft. base, 2 ft. high, W. of the cor.
	Land, broken bench.
	Soil, loose sandy loam; 2nd rate.
	Timber, juniper and pinon.
	Undergrowth, sagebrush and grease wood.
	Fair grazing.
	N.89°56'E., on random line bet. secs. 3 and 10.
40.00	Set temp. ¼ sec. cor.
80.18	Intersect N. and S. line, 3 lks. S. of the cor. of secs. 2, 3, 10, and 11.
	Thence
	S.89°55'W., on true line bet. secs. 3 and 10.
	Over rolling desert land, through scattering undergrowth. Descend 15 ft. over NW. slope, to
8.70	Bottom of draw, course SW. Ascend 15 ft. to
40.09	Set an iron post, 3 ft. long, 1 in. diam., 20 ins. in the ground to solid rock, with sandstone 6 x 5 x 4 ins. mkd. X deposited at the base, and surrounded by mound of stone to the top, for the ¼ sec. cor., with brass cap mkd.
	¼ S 3 S10 1932
	No other suitable accessories available.
41.50	Bottom of Yellow Cat Wash, course SE. Over nearly level land to
75.20	Bottom of draw, course NE. Ascend 40 ft. over E slope to

Chains	
20.18	The cor. of secs. 3, 4, 9, and 10.
	Land, rolling desert land.
	Soil, loose sandy and clay loam; 2nd rate.
	Undergrowth, grease wood and sagebrush.
	Fair grazing.

N.0°02'W., bet. secs. 3 and 4.

Over rolling desert land through scattering undergrowth. Descend 30 ft. over N. slope to

21.10 Yellow Cat Wash, course SE. Thence over nearly level land.

40.00 Set an iron post, 3 ft. long, 1 in. diam., 30 ins. in the ground, for the ¼ sec. cor., with brass cap mkd.

¼

S 4 | S 3

1932

and raise mound of stone, 3 ft. base, 2 ft. high, W. of the cor.

Continue over nearly level land.

49.72 Intersect the N. bdy. of the township, East, 8.18 chs. dist., from the ¼ sec. cor., for sec. 33 only, heretofore described.

At point of intersection

Set an iron post, 3 ft. long, 2 ins. diam., 30 ins. in the ground, for the closing cor. of secs. 3 and 4, with brass cap mkd.

T22S R21E
S33

S 4 | S 3
T23S | R21E
C C
1932

and raise mound of stone, 3 ft. base, 2 ft. high, S. of the cor.

Land, rolling and nearly level desert.

Soil, loose sandy and clay loam; 2nd rate.

Undergrowth, grease wood and sagebrush.

Fair grazing.

From the cor. of secs. 4, 5, 32 and 33, on the S. bdy., of the township, heretofore described.

N.0°03'W., on true line bet. secs. 32 and 33.

Over rolling desert land, through scattering undergrowth. Descend 20 ft. over SE. slope to

Chains	
2.00	Bottom of draw, course SE. Ascend 20 ft. over SW. slope to
8.00	Top of spur, slopes SE. Descend 50 ft. over NE. slope to
11.90	Bottom of draw, course SE. Ascend 60 ft. over SW. slope to ¼ sec. cor. Enter a few scattering juniper.
40.00	Set an iron post, 3 ft. long, 10 ins. in diam., 30 ins. in the ground, for the ¼ sec. cor., with brass cap mkd.

¼

S 32 | S 33

1932

from which

A juniper, 6 ins. diam., bears N.61°00'E., 46 lks. dist., mkd. ¼ S 33 BT.

A juniper, 8 ins. diam., bears S.55°00'W., 404 lks. dist., mkd. ¼ S 32 B T.

45.10	Top of spur, slopes SE. Descend 50 ft. over NE. slope to
57.30	Bottom of draw, course SE. Leave scattering timber, bears E. and W. Ascend 80 ft. over SW. slope to sec. cor.
65.00	Bottom of same draw, course SW.
72.90	Bottom of same draw, course SE.
80.00	Set an iron post, 3 ft. long, 2 ins. diam., 30 ins. in the ground, for the cor. of secs. 28, 29, 32, and 33, with brass cap mkd.

T23S R21E

S29 | S28

S32 | S33

1932

and raise mound of stone, 3 ft. base, 2 ft. high, W. of the cor.

Land, rolling desert.

Soil, loose sandy loam; 2nd rate.

Timber, a few scattering juniper.

Undergrowth, black brush.

Fair grazing.

East, on random line bet. secs. 28 and 33.

40.00	Set temp. ¼ sec. cor.
80.00	Intersect N. and S. line, 7 lks. N. of the cor. of secs. 27, 28, 33, and 34.

Thence

N.89°57'W., on true line bet. secs. 28 and 33.

Over broken bench land, through scattering timber and undergrowth. Ascend 30 ft. over E. slope to

Chains	
22.60	Top of spur, slopes S. descend 30 ft. to.
40.00	Set an iron post, 3 ft.long, 1 in. diam., 30 ins. in the ground, for the ¼ sec.cor., with brass cap mkd. ¼ S 28 / S 33 1932 and raise mound of stone, 3 ft. base, 2 ft. high, N.of the cor.
	Descend 50 ft.over W. slope to bottom of draw.
43.40	Leave scattering timber, bearing N. and S.
45.70	Bottom of draw, course S. Ascend 30 ft.over E. slope to
52.00	Top of spur, slopes S. Descend 20 ft. over W. slope to
55.80	Bottom of draw, course S. Ascend 20 ft.over E. slope to
64.00	Top of spur, slopes S. Descend 30 ft. over W. slope to
73.90	Bottom of draw, course S. Ascend 30 ft. over E. slope to
80.00	The cor.of secs. 28, 29, 32, and 33.
	Land, broken bench.
	Soil, loose sandy loam; 3rd rate.
	Timber, juniper and pinon.
	Undergrowth, black brush.
	Fair grazing.
	N.0°03'W., bet. secs. 28 and 29.
	Over rolling desert land, through scattering undergrowth. Descend 20 ft. over NE. slope to
40.00	Set an iron post, 3 ft. long, 1 in. diam., 30 ins. in the ground, for the ¼ sec. cor., with brass cap mkd. ¼ S 29 | S 28 1932 and raise mound of stone, 3 ft. base, 2 ft. high, W. of the cor.
40.80	Bottom of draw, course SE. Ascend 130 ft.over SW. slope to sec. cor.
69.90	Enter scattering timber bearing E. and W.
80.00	Set an iron post, 3 ft.long, 2 ins. diam., over X cut in solid surface rock, and surrounded by mound of stone to the top, for the cor. of secs. 20, 21, 28 and 29, with brass cap mkd.

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Chains

T23S R21E
S20 | S21
S29 | S28
1932

from which

A pinon, 4 ins. diam., bears N.67°00'E., 98 lks. dist., mkd. T 23 S R 21 E S 21 B T.

A juniper, 4 ins. diam., bears S.44°30'E., 109 lks. dist., mkd. T 23 S R 21 E S 28 BT.

A pinon, 4 ins. diam., bears S.18°00'W., 190 lks. dist., mkd. T 23 S R 21 E S 29 BT.

A juniper, 3 ins.diam., bears N.33°00'W., 55 lks. dist., mkd. B T.

Land, broken bench.

Soil, loose sandy loam and surface sandstone; 3rd rate.

Timber, juniper and pinon.

Undergrowth, black brush.

Fair grazing.

S.89°57'E., on random line bet. secs.21 and 28.

40.00 Set temp. ¼ sec. cor.

80.12 Intersect N. and S. line, 9 lks. S. of the cor. of secs. 21, 22, 27, and 28.

Thence

S.89°59'W., on true line bet. secs. 21 and 28.

Over broken bench land through scattering timber and undergrowth. Ascend 260 ft. over series of sandstone domes and pinnacles.

33.00 Top of sandstone dome, on ridge, divide bet. Salt Valley and Salt Wash, bears N.75°W. and S.75°E. Descend 210 ft. to ¼ sec.cor.

40.06 Set an iron post, 3 ft.long, 1 in. diam., 30 ins. in the ground, for the ¼ sec.cor., with brass cap mkd.

¼ S 21
S 28
1932

from which

A pinon, 6 ins. diam., bears N.2°00'E., 92 lks. dist., mkd. ¼ S 21 B T.

A juniper, 4 ins. diam., bears S.11°00'W., 56 lks. dist., mkd. ¼ S 28 BT.

Descend 260 ft.over S7. slope to bottom of draw.

42.20 Top of rim, 75 ft. high, leave sandstone domes and pinnacles, bearing NW. and SE.

Chains	
61.90	Bottom of draw, course SW. Ascend 40 ft. over E. slope to
78.90	Top of spur, slopes S. Descend 10 ft.over SW. slope to
80.12	The cor. of secs. 20, 21, 28 and 29.
	Land, broken bench.
	Soil, loose sandy loam and surface sandstone; 3rd rate.
	Timber, juniper and pinon.
	Undergrowth, black brush and sagebrush.
	Fair grazing.
	N.0°03'W., bet. secs. 20 and 21.
	Over broken bench land, through scattering timber and undergrowth.Ascend 25 ft. over SW. slope to
1.90	Top of spur, slopes W. Descend 30 ft. over NE. slope to
13.30	Bottom of draw, course SW. Ascend 370 ft.over SW. slope to ¼ sec. cor.
32.30	Top of sandstone rim, 25 ft. high, bears NW. and SE.
40.00	Set an iron post, 3 ft.long, 1 in. diam., 10 ins. in the ground to solid rock and surrounded by mound of stone to the top, for the ¼ sec. cor., with brass cap mkd.

¼

S 20 | S 21

1932

from which

A juniper, 4 ins. diam., bears S.34°45'E., 52 lks. dist., mkd. ¼ S 21 BT.

A pinon, 5 ins. diam., bears N.61°00'W., 113 lks. dist., mkd. ¼ S 20 BT.

Ascend 120 ft.over sandstone domes and pinnacles, bearing NW. and SE.

43.90 Top of sandstone dome, divide bet. Salt Valley and Salt Wash, bears NW. and SE.

The line to the north crosses over a series of sandstone domes and pinnacles over which chaining is impracticable. Therefore to determine the distance I triangulate as follows: Erect flag A at this point and set flag B to the north on line, also set flag C northwesterly from A, a mean distance of 9.993 chs. with no difference by two sets of chainmen. This was the longest practicable base line available. The angles were determined by three repetitions with the error balanced to 180°. Angle at A is 42°14'; angle at C is 130°59'; angle at B is 6°47'.

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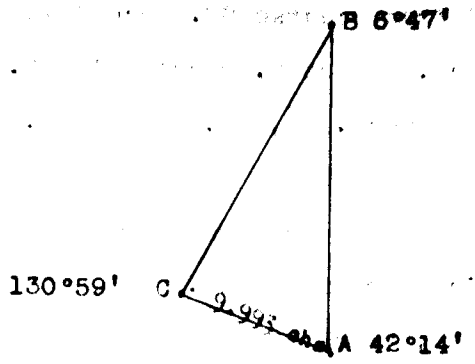
Chains



Distance on line to point A----------43.90 chs.
Distance by triangulation A to B---------- 63.87 chs.
Total distance on line to B----------107.77 chs.
Distance by return measurement---------- 26.12 chs.
81.65 chs.

80.00 True point for the cor. of secs. 16, 17, 20 and 21, fall on inaccessible sandstone dome, where it is impracticable to set corner.

81.65 Set an iron post, 3 ft. long, 2 ins. diam., 30 ins. in the ground, for the witness cor. of secs. 16, 17, 20, and 21, with brass cap mkd.

T23S R21E
S17 | S16
S20 | S21
WC
1932

from which

A pinon, 8 ins. diam., bears S.59°00'E., 45 lks. dist., mkd. WC T 23 S R 21 E S 16 B T.

A pinon, 10 ins. diam., bears S.37°00'W., 4 lks. dist., mkd. W C T 23 S R 21 E S 17 B T.

A pinon, 10 ins. diam., bears N.14°30'W., 22 lks. dist., mkd. W C T 23 S R 21 E S 17 BT.

No other suitable bearing tree available.

Land, broken bench.

Soil, loose sandy loam with sandstone surface rock; 3rd rate.

Timber, juniper and pinon.

Undergrowth, sage and black brush.

Fair grazing.

From the witness cor. for secs. 16, 17, 20 and 21.

N.89°59'E., on random offset line through sec. 16.

18.34 Offset S.0°03'E., 1.65 chs. dist. to true random line.

40.00 Thence N. 89°59'E., on random line bet. secs. 16 and 21. Set temp. ¼ sec. cor.

80.20 Intersect N. and S. line., 9 lks. S. of the cor. of secs. 15, 16, 21, and 22.

Thence

Chains	
	S.89°55'W., on true line bet. secs. 16 and 21.
	Over broken bench land, through scattering timber and undergrowth. Ascend 200 ft. over SE. sandstone surface rock slope.
32.30	Top of spur, slopes N. Descend 110 ft. over W. slope to ¼ sec. cor. Leave white sandstone surface rock, bearing N. and S.
33.00	Thence over sandstone domes and pinnacles bearing NW. and SE. Also top of low ridge, bearing NW. and SE.
40.10	Set an iron post, 3 ft. long, 1 in. diam., 30 ins. in the ground, for the ¼ sec. cor., with brass cap mkd.
	¼ S 16 / S 21 1932
	from which
	A pinon, 6 ins. diam., bears S.49°00'E., 78 lks. dist., mkd. ¼ S 21 B T.
	A pinon, 4 ins. diam., bears N.37°30'W., 27 lks. dist., mkd. ¼ S 16 BT.
	Continue over sandstone domes and pinnacles.
61.86	Inaccessible sandstone domes makes chaining on true line impracticable.
	Thence N.0°03'W., 1.65 chs. dist.
	Thence S.89°55'W., on offsetline, over domes and pinnacles.
80.20	The witness cor. of secs. 16, 17, 20, and 21.
	Land, broken bench.
	Soil, loose sandy loam and surface sandstone; 3rd rate.
	Timber, juniper and pinon.
	Undergrowth, sagebrush and black brush.
	Fair grazing.
	N.0°03'W., bet. secs. 16 and 17.
	Over broken bench and sandstone domes and pinnacles, through scattering timber and undergrowth.
	Counting distance fromthe true point for the cor. of secs. 16, 17, 20, and 21.
1.65	The witness cor. of secs. 16, 17, 20, and 21. Ascend 110 ft to
4.40	Top of sandstone dome, bearing NW. and SE. Descend 80 ft. to
17.10	Bottom of draw, course NE. Ascend 80 ft. over SE. slope to
27.77	Point B. of triangulation bet. secs. 20 and 21, Also top of red sandstone dome, bearing NW. and SE. Descend 120 ft. to

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Chains	
40.00	Set an iron post, 3 ft. long, 1 in. diam., 30 ins. in the ground, for the ¼ sec. cor., with brass cap mkd.

¼

S 17 | S 16

1932

from which

A pinon, 8 ins. diam., bears S.41°30'E., 41 lks. dist., mkd. ¼ S 16 B T.

A juniper, 8 ins. diam., bears S.47°45'W., 22 lks. dist., mkd. ¼ S 17 BT.

Continue descent of 280 ft. to

63.50 Bottom of draw, course NE. Ascend 90 ft. over NW. slope to

69.50 Top of spur, slopes NE. Descend 50 ft. over SE. slope to

80.00 Set an iron post, 3 ft. long, 2 ins. diam., over X cut in solid surface rock, and surrounded by mound of stone to the top, for the cor. of secs. 8, 9, 16, and 17, with brass cap mkd.

T23S R21E

S 8 | S 9

S17 | S16

1932

from which

A pinon, 8 ins. diam., bears N.61°30'E., 250 lks. dist., mkd. T 23 S R 21 E S 9 B T.

A pinon, 6 ins. diam., bears S.26°15'E., 340 lks. dist., mkd. T 23 S R 21 E S 16 BT.

A pinon, 3 ins. diam., bears S.71°00'W., 87 lks. dist., mkd. B T.

A pinon, 3 ins. diam., bears N.35°30'W., 190 lks. dist., mkd. B T.

Land, broken bench.

Soil, loose sandy loam with sandstone surface rock; 3rd rate.

Timber, juniper and pinon.

Undergrowth, black brush and sagebrush.

Fair grazing.

N.89°55'E., on random line bet. secs. 9 and 16.

40.00 Set temp. ¼ sec. cor.

80.30 Intersect N. and S. line, 9 lks. S. of the cor. of secs. 9, 10, 15, and 16.

Thence

S.89°51'W., on true line bet. secs. 9 and 16.

Over broken bench land, through scattering timber and undergrowth. Descend 115 ft. over NW. slope.

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Chains	
24.30	Bottom of draw, course NE. Ascend 120 ft. over E. slope to
40.15	Set an iron post, 3 ft. long, 1 in. diam., 30 ins. in the ground, for the ¼ sec. cor., with brass cap mkd.

$$\frac{1}{4}\ \frac{S\ 9}{S16}$$
1932

from which

A juniper, 3 ins. diam., bears S.10°00'W., 81 lks. dist., mkd. B T.

A juniper, 3 ins. diam., bears N.12°00'W., 109 lks. dist., mkd. B T.

44.40	Top of spur, slopes N. Descend 20 ft. over W. slope to bottom of draw.
52.20	Bottom of draw, course N. Thence over surface sandstone bearing N. and S. Ascend 130 ft. over SE. slope to
80.30	The cor. of secs. 8, 9, 16, and 17.

Land, broken bench.

Soil, loose sandy loam with surface sandstone; 3rd rate.

Timber, juniper and pinon.

Undergrowth, black brush and sagebrush.

Fair grazing.

N.0°03'W., bet. secs. 8 and 9.

Over broken bench land and surface rock, through scattering timber and undergrowth. Descend 20 ft. over NE. slope.

11.60	Bottom of draw, course SE. Ascend 15 ft. over SW. slope to top of ridge. Leave surface rock, bearing NW. and SE.
16.60	Top of ridge, bears NE. and SW. Descend 90 ft. over NW. slope to
40.00	Set an iron post, 3 ft. long, 1 in. diam., 30 ins. in the ground, for the ¼ sec. cor., with brass cap mkd.

¼

S 8 | S 9

1932

from which

A juniper, 4 ins. diam., bears S.60°45'E., 94 lks. dist., mkd. ¼ S 9 BT.

A juniper, 4 ins. diam., bears S.85°30'W., 56 lks. dist., mkd. ¼ S 8 BT.

Continue descent of 90 ft. to bottom of Yellow Cat Wash.

59.70	Leave scattering timber bearing NE. and SW.

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Chains

58.30 Branch of Yellow Cat Wash, course NE. Ascend 20 ft. over SE. slope to

80.00 Set an iron post, 3 ft. long, 2 ins. diam., 6 ins. in the ground to solid rock, with sandstone 6 x 4 x 3 ins. mkd. X deposited at the base, and surrounded by mound of stone, to the top, for the cor. of secs. 4, 5, 8, and 9, with brass cap mkd.

T23S R21E
S 5 | S 4
S 8 | S 9
1932

No other suitable accessories available.

Land, broken bench.

Soil, loose sandy loam and surface sandstone; 3rd rate.

Timber, juniper and pinon.

Undergrowth, sagebrush and grease wood.

Fair grazing.

N.89°51'E., on random line bet. secs. 4 and 9.

40.00 Set temp. ¼ sec. cor.

80.38 Intersect N. and S. line, 5 lks. S of the cor. of secs. 3, 4, 9, and 10.

Thence

S.89°49'W., on true line bet. secs. 4 and 9.

Over nearly level bench land, through scattering undergrowth. Descend 20 ft. to

40.19 Set an iron post, 3 ft. long, 1 in. diam., 30 ins. in the ground, for the ¼ sec. cor., with brass cap mkd.

S 4
¼
S 9
1932

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

Continue descent of 20 ft. over SE. slope to

61.50 Bottom of draw, course NE. Ascend 50 ft. over E. slope to

80.38 The cor. of secs. 4, 5, 8, and 9.

Land, bench.

Soil, loose sandy loam; 2nd rate.

Undergrowth, sagebrush and grease wood.

Fair grazing.

Chains	
	N.0°03'W., bet. secs. 4 and 5. Over rolling bench land, through scattering undergrowth. Ascend 50 ft. over S. slope to
5.90	Top of spur, slopes E. Descend 90 ft. over N. slope to
26.60	Bottom of Yellow Cat Wash, course E. Thence over nearly level desert land to closing cor.
40.00	Set an iron post, 3 ft.long, 1 in. diam., 30 ins. in the ground, for the ¼ sec. cor., with brass cap mkd. ¼ S 5 | S 4 1932 and raise mound of stone, 3 ft. base, 2 ft. high, W. of the cor.
50.00	Intersect the N. bdy., of the township, East, 7.80 chs. dist. from the ¼ sec. cor., for sec. 32 only, heretofore described. At point of intersection Set an iron post, 3 ft.long, 2 ins. diam., 30 ins. in the ground, for the closing cor. of secs. 4 and 5, with brass cap mkd. T22S R21E S32 S 5 | S 4 T23S | R21E C C 1932 and raise mound of stone, 3 ft. base, 2 ft. high, S. of the cor. Land, rolling and nearly level bench. Soil, loose sandy loam; 2nd rate. Undergrowth, sagebrush and grease wood. Fair grazing.
	From the true point for the cor. of secs. 5, 6, 31 and 32, on the S. bdy. of the township, heretofore described. N.0°03'W., bet. secs. 31 and 32. Over rolling valley land, through scattering undergrowth. Descend 10 ft. over NE. slope to
18.10	Bottom of Salt Valley, wash drains SE. Ascend 30 ft. over SW. slope to ¼ sec. cor.
29.30	Fence, 4 barbed wires, bears S.40°W., and N.40°E., for 2 chs. dist.
32.60	Fence, 4 barbed wires, bears N.55°W., and S.55°E.
40.00	Set an iron post, 3 ft. long, 1 in. diam., 30 ins. in the ground, for the ¼ sec. cor., with brass cap mkd.

Chains	
	$\frac{1}{4}$ / S 31 | S 32 1932
	and raise mound of stone, 3 ft. base, 2 ft. high, W. of the cor.
	Continue ascent of 10 ft. to sec. cor.
50.30	Ungraded road, bears E. and W.
75.40	Ungraded road, bears NW. with one fork bearing SE. and other fork bearing E.
80.00	Set an iron post, 3 ft. long, 2 ins. diam., 30 ins. in the ground, for the cor. of s ecs. 29, 30, 31, and 32, with brass cap mkd. T23S R21E S30 | S29 / S31 | S32 1932
	and raise mound of stone, 3 ft. base, 2 ft. high, W. of the cor.
	From this cor. the center of the casing in the Utah Southern Oil Co. Balsley No.1, bears S.53°40'E., 15.90 chs. dist. A frame house, 15 x 30 ft. the SW. corner of which bears S.64°58'E., from the sec. cor., and N.29°30' W., 5.80 chs. dist. from the center of the casing of the oil well.
	Land, rolling valley
	Soil, loose sandy loam; 2nd rate.
	Undergrowth, black brush and white sage.
	Good grazing.
	East, on random line bet. secs. 29 and 32.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
80.00	Intersect N. and S. line, 5 lks. S. of the cor. of secs. 28,29,32, and 33.
	Thence
	S.89°58'W., on true line bet. secs. 29 and 32.
	Over rolling valley land, through scattering undergrowth. Descend 15 ft. over W. slope to
4.00	Bottom of draw, course S. Ascend 50 ft. over E. slope to
39.50	Top of spur, slopes S. Descend 60 ft. over W. slope to sec. cor.
40.00	Set an iron post, 3 ft. long, 1 in. diam., 30 ins. in the ground, for the $\frac{1}{4}$ sec. cor., with brass cap mkd. $\frac{1}{4}$ S.29 / S32 1932
	and raise mound

Chains	
	of stone, 3 ft. base, 2 ft. high, N. of the cor.
80.00	The cor. of secs. 29, 30, 31, and 32.
	Land, rolling valley.
	Soil, loose sandy loam; 2nd rate.
	Undergrowth, black brush and white sage.
	Good grazing.
	West, on true line bet. secs. 30 and 31.
	Over rolling valley land, through scattering undergrowth. Descend 25 ft. over NW. slope to bottom of Salt Valley.
3.70	Ungraded road, bears NW. and SE.
23.00	Fence, 4 barbed wires, bears N.10°W., and S.10°E. for 1 ch. dist. thence S..
30.70	Bottom of Salt Valley, wash course S. Ascend 20 ft. over E. slope. to
40.00	Set an iron post, 3 ft. long, 1 in. diam., 30 ins. in the ground, for the ¼ sec. cor., with brass cap mkd.

$$\frac{1}{4}\ \frac{S\ 30}{S\ 31}$$

1932

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

Continue ascent over E. slope 10 ft. to

55.70 Intersect the W. bdy. of the township, N.0°04'W., 45 lks. dist., from the cor. of secs. 25 and 36, T. 23 S., R. 20 E., heretofore described.

At point of intersection

Set an iron post, 3 ft. long, 2 ins. diam., 30 ins. in the ground, for the closing cor. of secs. 30 and 31, with brass cap mkd.

T23S S25 R20E	T23S S30 C S31 C R21E

1932

and raise mound of stone, 3 ft. base, 2 ft. high, E. of the cor.

Land, rolling valley.

Soil, loose sandy loam; 2nd rate.

Undergrowth, black brush and white sage.

Good grazing.

Chains	
	From the cor.of secs.29,30,31, and 32. N.0°03'W., bet. secs. 29 and 30.
	Over rolling valley land, through scattering undergrowth. Ascend 40 ft. over gradual S. slope, to
40.00	Set an iron post, 3 ft.long, 1 in. diam., 30 ins. in the ground, for the ¼ sec. cor., with brass cap mkd.

¼ | S 30 | S 29
1932

and raise mound of stone, 3 ft. base, 2 ft. high, W. of the cor.

	Continue over rolling valley land.
56.00	Small draw, course SW., Ascend 25 ft to
80.00	Set an iron post, 3 ft.long, 2 ins. diam., 30 ins. in the ground, for the cor. of secs. 19, 20, 29, and 30, with brass cap mkd.

T23S R21E
S19 | S20
S30 | S29
1932

and raise mound of stone, 3 ft. base, 2 ft. high, W. of the cor.

	Land, rolling valley
	Soil, loose sandy loam; 2nd rate.
	Undergrowth, black brush and white sage.
	Good grazing.

	N.89°58'E., on random line bet. secs. 20 and 29.
40.00	Set temp. ¼ sec. cor.
80.02	Intersect the cor.of secs. 20, 21, 28, and 29.
	Thence
	S.89°58'W., on true line bet. secs. 20 and 29.
	Over rolling valleyland, through scattering timber and undergrowth. Descend 85 ft. over W. slope to
10.30	Bottom of draw, course S. Ascend 80 ft. over E. slope to
19.50	Top of spur, slopes S. Descend 60 ft.over W. slope to the ¼ sec. cor.
27.90	Leave scattering timber, bearing NW. and SE.
40.01	Set an iron post, 3 ft. long, 1 in. diam., 30 ins. in the ground for the ¼ sec.cor., with brass cap mkd.

¼ | S 20 / S 29
1932

and raise mound

Chains	
	of stone, 3 ft. base, 2 ft. high, N. of the cor.
	Continue over rolling valley land.
50.20	Bottom of draw, course SW. Ascend 20 ft. over SE. slope to
80.02	The cor. of secs. 19, 20, 29, and 30.
	Land, rolling valley.
	Soil, loose sandy loam; 2nd rate.
	Timber, scattering juniper and pinon.
	Undergrowth, black brush, grease wood and white sage.
	Good grazing.
	West, on random line bet. secs. 19 and 30.
40.00	Set temp. ¼ sec. cor.
55.78	Intersect the W. bdy. of the township, 26 lks. N. of the cor. of secs. 19, 24, 25, and 30, heretofore described.
	Thence
	N.89°44'E., on true line bet. secs. 19 and 30.
	Over rolling valley land, through scattering undergrowth. Ascend 10 ft. to ¼ sec. cor.
0.10	Ungraded road, bears NW. and S.
15.78	Set an iron post, 3 ft. long, 1 in. diam., 30 ins. in the ground, for the ¼ sec. cor., with brass cap mkd.
	¼ S 19 / S 30 1932
	and raise mound of stone, 3 ft. base, 2 ft. high, N. of the cor.
	Continue gradual ascent of 30 ft. over W. slope to
55.78	The cor. of secs. 19, 20, 29, and 30.
	Land, rolling valley.
	Soil, loose sandy loam; 2nd rate.
	Undergrowth, black brush, grease wood and white sage.
	Good grazing.
	N.0°03'W., bet. secs. 19 and 20.
	Over rolling valley land through scattering undergrowth. Ascend gradual S. slope 30 ft. to ¼ sec. cor.
17.00	Enter very scattering timber bears NW. and SE.
40.00	Set an iron post, 3 ft. long, 1 in. diam., 30 ins. in the ground, for the ¼ sec. cor., with brass cap mkd.

Chains

$\frac{1}{4}$

S 19 | S 20

1932

from which

A juniper, 4 ins. diam., bears S.14°30'W., 469 lks. dist., mkd. $\frac{1}{4}$ S 19 B T.

And raise mound of stone, 3 ft. base, 2 ft. high, W. of the cor.

Continue ascent of 120 ft. over S. slope to sec. cor.

65.00 Ungraded road, bears E. and W.

76.80 Same road, bears NW. and SE.

80.00 Set an iron post, 3 ft. long, 2 ins. diam., over X cut in solid surface rock, and surrounded by mound of stone to the top, for the cor. of secs. 17, 18, 19, and 20, with brass cap mkd.

T23S R21E
S18 | S17
S19 | S20
1932

from which

A pinon, 10 ins. diam., bears N.29°00'E., 130 lks. dist., mkd. T 23 S R 21 E S 17 B T.

A juniper, 3 ins. diam., bears S.14°45'E., 20 lks. dist., mkd. B T.

A juniper, 3 ins. diam., bears S.54°15'W., 146 lks. dist., mkd. B T.

A juniper, 8 ins. diam., bears N.15°30'W., 82 lks. dist., mkd. T 23 S R 21 E S 18 BT.

Land, rolling valley.

Soil, loose sandy loam and sandstone surface rock; 2nd rate.

Timber, juniper and pinon.

Undergrowth, black brush, grease wood and white sage.

Good grazing.

N.89°58'E., on random line bet. secs. 17 and 20.

35.04 Set temp. witness $\frac{1}{4}$ sec. cor. The line to the east crosses a series of sandstone domes and pinnacles over which chaining is impracticable. Therefore to determine the distance I run on traverse as follows:

N.52°45'W., 6.44 chs. dist.

S.35°00'E., 14.86 chs. dist.

N.84°30'E., 22.46 chs. dist.

N.19°00'E., 13.60 chs. dist.

Chains.	
	S.81°15'E., 15.01 chs. dist. to a point on line bet. secs. 16 and 17, or easting of 16 [illegible].
80.06	Intersect line bet. secs. 16 and 17 at a point N.0°03'W., 4.68 chs. from the true point for the cor. of secs. 16, 17, 20, and 21.
	Therefore the true bearing of this mile is N.89°52'W., and the distance is 80.06 chs.
	Thence
	N.89°52'W., on true line bet. secs. 17 and 20. Counting distances from the true corner point.
	Over series of sandstone domes and pinnacles bearing NW. and SE. Ascend 130 ft. to witness ¼ sec. cor.
40.03	True point for the ¼ sec. cor., falls on inaccessible sandstone dome where it is impracticable to set cor.
45.03.	Set an iron post, 3 ft. long, 1 in. diam., 30 ins. in the ground, for the witness ¼ sec. cor., with brass cap mkd.
	¼ S 17 / S 20 1932 WC
	and raise mound of stone, 3 ft. base, 2 ft. high, N. of the cor.
	Leave sandstone domes and pinnacles bearing NW. and SE. Descend 390 ft. over W. slope through scattering timber and undergrowth, to the sec. cor.
65.90	Sandstone rim, 100 ft. high, bears NW. and SE.
80.06	The cor. of secs. 17, 18, 19, and 20.
	Land, broken bench.
	Soil, loose sandy loam; 2nd rate.
	Timber, juniper and pinon.
	Undergrowth, sagebrush and black brush.
	Poor grazing.
	S.89°44'W., on random line bet. secs. 18 and 19.
40.00	Set temp. ¼ sec. cor.
55.66	Intersect the W. bdy., of the township, 29 lks. S. of the corner of secs. 13, 18, 19, and 24, heretofore described.
	Thence
	S.89°58'E., on true line bet. secs. 18 and 19.
	Over broken bench land through scattering undergrowth.
4.10	Bottom of draw, course SW.
15.66	Set an iron post, 3 ft. long, 1 in. diam., 30 ins. in the ground, for the ¼ sec. cor., with brass cap mkd.

Chains	
	$\frac{1}{4}$ S 18 / S 19 1932. from which
	A juniper, 3 ins. diam., bears S.79°30'E., 7.72 chs. dist., mkd. B T. Raise mound of stone, 3 ft. high, 2 ft. base, N. of the cor.
21.90	Bottom of draw, course SW. Ascend 135 ft. over W. slope to top of spur.
25.00	Enter scattering timber bearing N. and S.
29.30	Top of spur, slopes S. Descend 25 ft. over E. slope to bottom of draw.
52.00	Ungraded road, bears NW. and SE.
54.70	Bottom of draw, course SW. Ascend 10 ft. over NW. slope to
55.66	The cor. of secs. 17, 18, 19, and 20.
	Land, broken bench.
	Soil, loose sandy loam; 2nd rate.
	Timber, juniper and pinon.
	Undergrowth, black brush, sagebrush and white sage.
	Fair grazing.
	N.0°03'W., bet. secs. 17 and 18.
	Over broken bench land through scattering timber and undergrowth. Descend 20 ft. over NW. slope to
2.00	Bottom of draw, course S. Commence abrupt ascent over SE. slope of 260 ft. to $\frac{1}{4}$ sec. cor.
13.90	Sandstone rim, 75 ft. high, bears NW. and SE.
40.00	Set an iron post, 3 ft. long, 1 in. diam., 30 ins. in the ground, for the $\frac{1}{4}$ sec. cor., with brass cap mkd. $\frac{1}{4}$ / S 18 | S 17 1932 from which
	A pinon, 8 ins. diam., bears N.1°30'E., 41 lks. dist., mkd. $\frac{1}{4}$ S 17 B T.
	A pinon, 8 ins. diam., bears N.44°15'W., 72 lks. dist., mkd. $\frac{1}{4}$ S 18 BT.
	Continue ascent of 20 ft. to
42.00	Top of ridge, divide bet. Salt Valley and Salt Wash, also enter sandstone domes and pinnacles, bearing NW. and SE. Descend 90 ft. over NE. slope to sec. cor.
72.00	Leave sandstone domes and pinnacles, bearing NW. and SE.

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Chains	
80.00	Set an iron post, 3 ft. long, 2 ins. diam., 15 ins. in the ground to solid rock, and surrounded by mound of stone, to the top, for the cor. of secs. 7, 8, 17, and 18, with brass cap mkd. T23S R21E S 7 | S 8 S18 | S17 1932 from which A pinon, 10 ins. diam., bears N.65°00'E., 90 lks. dist., mkd. T 23 S R 21 E S 8 BT. A pinon, 10 ins. diam., bears S.41°00'E., 42 lks. dist., mkd. T 23 S R 21 E S 17 B T. A pinon, 10 ins. diam., bears S.42°30'W., 36 lks. dist., mkd. T 23 S R 21 E S 18 B T. A pinon, 14 ins. diam., bears N.52°30'W., 187 lks. dist., mkd. T 23 S R 21 E S 7 BT. Land, broken bench. Soil, loose sandy loam with sandstone surface rock; 3rd rate. Timber, juniper and pinon. Undergrowth, sagebrush and black brush. Fair grazing.
	S.89°52'E., on random line bet. secs. 8 and 17.
40.00	Set temp. ¼ sec. cor.
79.86	Intersect N. and S. line, 9 lks. N. of the cor. of secs. 8, 9, 16, and 17. Thence N.89°48'W., on true line bet. secs. 8 and 17. Over broken bench land through scattering timber and undergrowth. Over surface sandstone. Ascend 280 ft. over NE. slope to
39.93	Set an iron post, 3 ft. long, 1 in. diam., 30 ins. in the ground, for the ¼ sec. cor., with brass cap mkd. ¼ S 8 S17 1932 from which A pinon, 6 ins. diam., bears N.62°30'E., 71 lks. dist., mkd. ¼ S 8 B T. A pinon, 10 ins. diam., bears S.74°45'E., 93 lks. dist., mkd. ¼ S 17 B T.
41.20	Top of low ridge, bears NE. and SW. Descend 10 ft. to
44.90	Bottom of draw, course NE. Leave surface sandstone,

Chains	
	bearing NE. and SW. Ascend 130 ft. over NE. slope to
79.86	The cor. of secs. 7, 8, 17, and 18.
	Land, broken bench.
	Soil, loose sandy loam and surface sandstone; 3rd rate.
	Timber, juniper and pinon.
	Undergrowth, black brush and sage brush.
	Fair grazing.
	N.89°58'W., on random line bet. secs. 7 and 18.
40.00	Set temp. ¼ sec. cor.
55.61	Intersect the W. bdy. of the township, 15 lks. S. of the cor. of secs. 7, 12, 13, and 18, heretofore described.
	Thence
	S.89°49'E., on true line bet. secs. 7 and 18.
	Over broken bench land through scattering timber and undergrowth. Over sandstone domes and pinnacles.
15.61	Set an iron post, 3 ft. long, 1 in. diam., 30 ins. in the ground, for the ¼ sec.cor., with brass cap mkd.
	¼ S 7 / S 18 1932
	from which
	A juniper, 4 ins. diam., bears N.5°00'E., 207 lks. dist., mkd. ¼ S 7 B T.
	A juniper, 5 ins. diam., bears S.15°45'E., 37 lks. dist., mkd. ¼ S 18 B T.
	Ascend 30 ft. over SW. slope to
26.00	Top of rocky spur, slopes NW. Descend 220 ft. over NE. slope to bottom of draw.
33.50	Bottom of draw, course NW. Leave sandstone domes bearing NW. and SE. Ascend 50 ft. over W. slope.
45.60	Top of spur, slopes N. Descend 60 ft. over SE. slope to
55.61	The cor. of secs. 7, 8, 17, and 18.
	Land, broken bench.
	Soil, loose sandy loam and sandstone surface rock; 3rd rate.
	Timber, juniper and pinon.
	Undergrowth, sagebrush and black brush.
	Fair grazing.

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Chains	
	N.0°03'W., bet. secs. 7 and 8.
	Over broken bench land, through scattering timber and undergrowth. Ascend 20 ft. over SE. slope to top of ridge.
5.50	Top of ridge, bears NE. and SW. Descend 290 ft. over NW slope to ¼ sec. cor.
27.00	Thence over surface sandstone bearing NW. and SE.
40.00	Set an iron post, 3 ft. long, 1 in. diam., over X cut in solid rock and surrounded by mound of stone, to the top, for the ¼ sec. cor., with brass cap mkd.

¼

S 7 | S 8

1932

from which

A pinon, 4 ins. diam., bears N.76°30'E., 41 lks. dist., mkd. ¼ S 8 B T.

A pinon, 4 ins. diam., bears N.71°30'W., 63 lks. dist., mkd. ¼ S 7 B T.

Continue descent of 320 ft. to the sec. cor.

80.00	Set an iron post, 3 ft. long, 2 ins. diam., over X cut in solid surface rock, and surrounded by mound of stone to the top, for the cor. of secs. 5, 6, 7, and 8, with brass cap mkd.

T23S R21E

S 6 | S 5

S 7 | S 8

1932

from which

A pinon, 4 ins. diam., bears N.69°00'E., 127 lks. dist., mkd. T 23 S R 21 E S 5 B T.

A juniper, 3 ins. diam., bears S.79°00'E., 186 lks. dist., mkd. T 23 S R 21 E S 8 B T.

A pinon, 8 ins. diam., bears S.24°00'W., 51 lks. dist., mkd. T 23 S R 21 E S 7 B T.

A juniper, 6 ins. diam., bears N.73°30'W., 51 lks. dist., mkd. T 23 S R 21 E S 6 B T.

Land, broken bench.

Soil, loose sandy loam and surface sandstone; 3rd rate.

Timber, juniper and pinon.

Undergrowth, black brush and sagebrush.

Fair grazing.

S.89°48'E., on random line bet. secs. 5 and 8.

40.00	Set temp. ¼ sec. cor.
79.68	Intersect N. and S. line 7 lks. S. of the cor. of secs.

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Chains	
	4, 5, 8, and 9.
	Thence
	N.89°51'W., on true line bet. secs. 5 and 8.
	Over broken bench land through scattering timber and undergrowth. Ascend 50 ft. over SE. slope to
23.50	Top of ridge, bears NE. and SW. Descend 20 ft. to
39.84	Set an iron post, 3 ft. long, 1 in. diam., over X cut in solid surface rock, and surrounded by mound of stone to the top, for the ¼ sec. cor., with brass cap mkd.

$$\frac{1}{4}\ \frac{\text{S 5}}{\text{S 8}}$$
1932

from which

A juniper, 4 ins. diam., bears N.50°00'E., 50 lks. dist., mkd. ¼ S 5 B T.

A juniper, 3 ins. diam., bears S.13°00'W., 58 lks. dist., mkd. B T.

	Continuedescent of 20 ft. over NW. slope to
58.80	Bottom of draw, course NE. Ascend 40 ft. over NE. slope to sec. cor.
60.20	Thence over surface sandstone, bears NW. and SE.
79.68	The cor. of secs. 5, 6, 7, and 8.
	Land, broken bench.
	Soil,loose sandy loam and surface sandstone; 3rd rate.
	Timber, juniper and pinon.
	Undergrowth, sagebrush and black brush.
	Fair grazing.

	N.89°49'W., on random line bet. secs. 6 and 7.
40.00	Set temp. ¼ sec. cor.
55.38	Intersect the W. bdy. of the township, 14 lks. S. of the cor. of secs. 1, 6, 7, and 12, heretofore described.
	Thence
	S.89°40'E., on true line bet. secs. 6 and 7.
	Over broken bench land, through scattering timber and undergrowth. Descend SE. slope 80 ft. over surface sandstone to
15.38	Set an iron post, 3 ft.long, 1 in. diam., 10 ins. in the ground to solid rock and surrounded by mound of stone to the top, for the ¼ sec. cor., with brass cap mkd.

$$\frac{1}{4}\ \frac{\text{S 6}}{\text{S 7}}$$
1932

SUBDIVISION OF T.23 S.,R.21 E.

Chains	
	from which
	A pinon, 8 ins.diam.,bears S.23°00'E., 127 lks. dist.,marked ¼ S 7 B T
	A pinon, 10 ins.diam., bears N.14°00'W., 129 lks. dist.,marked ¼ S 6 B T
	Continue descent of 100 ft. over SE. slope to
37.50	Draw, course NE. Ascend 20 ft. over NW. slope to
45.40	Top of spur, slopes NE. Descend 95 ft. over NE. slope to
55.38	The cor. of secs. 5,6,7, and 8.
	Land, broken bench.
	Soil, loose sandy loam and surface sandstone; 3rd.rate.
	Timber, juniper and pinon.
	Undergrowth, sagebrush and black brush.
	Fair grazing.

N.0°03'W., bet. secs. 5 and 6.

Over broken bench land through scattering timber and undergrowth. Descend N. slope 30 ft. over surface sandstone to

3.10 Bottom of draw, course E. Leave surface sandstone, bears NW. and SE. Ascend 80 ft. over S. slope to

6.30 Top of spur, slopes NE. Descend 110 ft.over NW. slope to

22.10 Bottom of wash, course E.

31.90 Bottom of Yellow Cat Wash, course SE. Ascend 70 ft.over SE. slope to

40.00 Set an iron post, 3 ft. long, 1 in. in dia., 12 ins. in the ground to solid rock and surrounded by a mound of stone to top for ¼ sec. cor., with brass cap marked

¼

S6 | S5

1932

from which

A juniper, 3 ins.diam.,bears N.49°00'E., 11 lks. dist., marked BT

A juniper, 3 ins.diam.,bears S.67°45'W., 68 lks. dist.,marked BT

49.86 Intersect N. bdy. of the township, East, 8.20 chs. dist. from the ¼ sec. cor. for sec. 31 only, heretofore described

At point of intersection.

Set an iron post, 3 ft. long, 2 ins. in diam., over a (X) cut in surface rock, and surrounded by a mound of stone to top for the closing cor. of secs. 5 and 6, with brass cap marked

U. S. GOVERNMENT PRINTING OFFICE. 1921 6—8105

SUBDIVISION OF T.23 S.,R.21 E.

Chains

T22S R21E
S31

S6	S5
T23S	R21E

C C
1932

No other suitable accessories available.

Land, broken bench.

Soil, loose sandy loam with sandstone surfacerock; 3rd.rate

Timber, juniper and pinon.

Undergrowth, sagebrush and blackbrush. Fair grazing.

FINAL TEST OF INSTRUMENT

Nov. 20,1932: At the closing cor. of T.23 S.,Rs.21 and 22 E., at 9 h.am. l.m.t., I set off 19°43'S., on the decl. arc; 38°45½'on the lat arc; and determine a meridian with the solar ; the line of sight agrees with the meridian established by Polaris observations.

At 3h.pm.l.m.t., with the lat arc unchanged, I set off 19°46'S. on the decl. arc and repeat the test of the solar; the line of sight also agrees with the true meridian.

GENERAL DESCRIPTION

The land embraced in this township is broken mesa and rolling desert valley land. The general drainage of the southwest portion is into Salt Valley which drains southeasterly. The balance of the township drains easterly and northeasterly into Salt Wash which has a general southeasterly drainage.

The higher portion of the township along the divide between Salt Valley and Salt Wash, is covered with a medium to scattered growth of juniper and pinon timber of no commercial value, except for fire-wood and fence posts. This portion is also covered with a scattering growth of sagebrush and blackbrush. In the lower portion which forms a part of Salt Valley, there is a medium to scattering growth of sagebrush, blackbrush, white sage, greasewood and some shadscale which affords good browse for livestock. There is also a medium growth of grass over the entire township with the exception of those areas where surfacerock is exposed.

The soil in the township is a loose sandy loam, with large areas of surface sandstone. Some clay loam and volcanic rock is found in the north portion. The soil in parts of Salt Valley and along Yellow Cat Wash is ideal for farming if water were available.

Along the divide bet. Salt Valley and Salt Wash are many smooth sandstone domes and pinnacles in rows, bearing NW. and SE. There are also many natural bridges, arches, and window like holes in this formation formed by wind erosion. Parts of secs. 7,17,18,19,20,21,27,28, 34, and 35 of this township have been withdrawn by executive order dated April 12,1929, as part of the Arches National Monument.

This portion of the Arches National Monument is known as the Devil's Garden.

GENERAL DESCRIPTION OF T.23 S., R. 21 E.

This township is used for the grazing of livestock; there are some cattle and horses grazed on this township the entire year, and in the winter time herds of sheep graze over the township when snow is available for water. The only live water in the township is in Salt Wash, but there are numerous tanks formed by the sandstone which catch and hold the rain and snow water. There are two small reservoirs in the north half of sec. 5. The entire township shows excessive grazing. I estimate that with regulated grazing two hundred head of cattle could be grazed on this township through the entire year, with the exception of short periods during the severe cold or heavy storms during the winter.

The only settler is E.P.Cordova, with holdings in secs 23 and 24. He has a small log house and garden plot where he raises some vegetables during the summer. He owns and grazes approximately 50 head of cattle along Salt Wash and in the vicinity of the reservoirs in sec. 5. He also has holdings in sec. 32, T. 22S., R.21 E., under survey in this group.Cordova has been located in in this locality for about seventeen years.

In sec. 32 of this township is a standard oil derrick owned and operated by the Utah Southern Oil Co. and drilling at approximately 6000 ft. at the time of the survey. Also in sec. 32 a test well was started and abandoned by the U.S.Potash Co.

In the northern portion of the township there has been considerable prospecting for uranium and iron ore. There were no surface indications of coal in the township.

The nearest post office and supply point is Thompson Utah, approximately 15 miles northwesterly.

The magnetic declination was not taken on account of a defective needle.

U. S. GOVERNMENT PRINTING OFFICE: 1951 6—8155

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Page

BOOK A-503

4—680
(August, 1926)

FIELD ASSISTANTS.

NAMES.	CAPACITY.
Andrew McConkie	Chainman
Devon Crosby	Flagman

6—2764

CERTIFICATE OF UNITED STATES SURVEYOR

I Chas. F. Moore, U. S. Surveyor, hereby certify upon honor that, in pursuance of special instructions received from the District Cadastral Engineer for Utah bearing date of the 7th day of October, 19 31, I have well, faithfully, and truly in my own proper person, and in strict conformity with said instructions, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of T. 23 S., R. 21 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 all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions and the special written instructions of the District Cadastral Engineer for Utah and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey.

Salt Lake City, Utah.
Feb. 27 1938

Chas. F. Moore
U. S. Surveyor.

APPROVAL

OFFICE OF U. S. SUPERVISOR OF SURVEYS,

Denver Colorado. NOV 16 1934, 19

The foregoing field notes of the survey of T. 23 S., R. 21 E. S.L.M., Utah,

executed by Chas. F. Moore

under his special instructions dated October 7, 1931, 19, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

[signature]
U. S. Supervisor of Surveys.

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

~~U. S. Supervisor of Surveys.~~